

THE WORLD'S MUST-SEE PLACES



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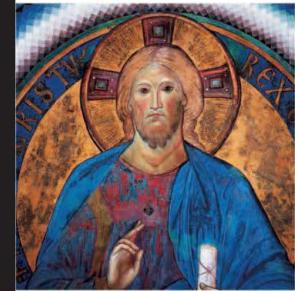
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¥ Château de Chenonceau, France







Introduction

Ancient Greek and Roman travelers, whose idea of enjoyment was probably little different from our own, had few sights to visit. It was therefore not difficult for Greek writers to list the seven best and call them the "wonders of the world."

Civilizations have come a long way since then, the world has shrunk with high-speed travel, and there has been no let-up in the desire to build. These days, it would be hard to pinpoint the seven most wondrous buildings in the world, but here are 103 sights that should not be missed.

≺ St. Basil's Cathedral in Moscow, crowned with colorful domes

CREATED for people of vision and flair to glorify themselves, their gods, and their power, these sights are landmarks that tell us about the past, where we have come from, and what we are capable of achieving. Each one needs close inspection to appreciate its setting, structure, style, and ornament. Palaces, castles, religious houses, and places of entertainment have been handed to artists and artisans to embellish. Around and within these walls, masons, carpenters, wood carvers, ceramicists, sculptors, glassmakers, painters, metalworkers, cabinet makers, embroiderers, tapestry makers, and landscape gardeners have all sought some kind of perfection. Some of these craftsmen are well known, but most were journeymen whose names were never meant to be remembered. In the creation of these buildings, they captured the glory of their age for all the world to see forever.

It is astonishing that some of these buildings have lasted for so long. With a few exceptions, such as Norway's stave churches and the Todai-ji Temple in Japan, most wooden structures have not survived. Even stone buildings have frequently come to grief in earthquakes, wars, fires, and floods. As a result, many

A The imposing façade of Edinburgh Castle, Scotland

are like palimpsests, written over again and again. In Europe, a single building can have within it the marks of half a dozen cultures dating back more than 2,000 years. Also, the use of a building can change, from castle to palace, church to fort, and many flourish today as museums.

UNESCO WORLD HERITAGE SITES

The Great Pyramid at Giza in Egypt is the only surviving wonder of the ancient world. In 1979, it was inscribed as a World Heritage Site by the United Nations Educational, Scientific, and Cultural Organization (UNESCO), an agency of the United Nations set up in 1945. The idea of a fund to preserve the world's cultural and natural heritage was sparked in 1959 when the temples at Abu Simbel in Egypt were in danger of being submerged in Lake Nasser by the building of the Aswan High Dam. Following an appeal from the governments of Egypt and Sudan, UNESCO raised \$80 million to move the temples of Ramses II and Nefertari more than 200 ft (60 m) out of harm's way. The work was completed in 1968, and as a result of this success, UNESCO, with the International Council on Monuments and Sites (ICOMOS), went on to draft a new convention. Joined by ideas from the International Union for the Conservation of Nature (IUCN), proposals for safeguarding both cultural and natural sites were formally adopted by UNESCO's General Conference in 1972.

Today, there are some 800 UNESCO World Heritage Sites around the world, more than 600 of them cultural, as opposed to natural, sites. Italy and Spain have the most, followed by France and Germany. Each year, a dozen or more sites are added to the list. Proposals for sites can come from any one of the member countries, which each give one percent of their UNESCO dues to the fund. With voluntary contributions, the fund receives around \$3.5 million a year. The money goes toward preserving the sites, while some is set aside for those currently deemed at risk through man-made or natural calamities.

Cambodia's spectacular Angkor Wat temple, built in the 12th century by the Khmer empire >









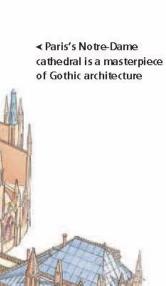
A The Patio de los Leones in Spain's Alhambra is typical of the sensual architecture of the Moors

◆The White House, Washington, D.C., the official residence of the president of the United States

A The Great Wall of China, a major tourist attraction and a powerful symbol of China

¥ Cartouche at Abu Simbel, Egypt





The feet of thousands of visitors also put sights at risk, and many have had to restrict access because of this. However, tourism can help preserve sights by providing an income from entrance fees.

TOURISM

We now have a chance to see inside the world's most spectacular sights—to wander their corridors and squares—and our curiosity is unbounded. Many of the sights in this book are only a weekend break away. Some of them provide exhibitions, talks, conferences, or concerts, while others are the upholders of colorful rituals and traditions. Not all of the sights are so easily accessible, however. Religious devotees often sought remote places for their contemplations and some sights are remote for strategic reasons, for example, the Inca estate of Machu Picchu in Peru, so hard to find that it was lost to the world for centuries.

Many ancient and prehistoric sites were oriented in alignment with the movements of the Sun, the Moon, the planets, and stars, and being there at dawn or at a solstice is to feel their potent magic. Other sights also have their special times: when choirs and music fill the churches; when a festival recalls a building's heyday; when a full Moon hovers over the Taj Mahal, the Sun sets on San Francisco's Golden Gate Bridge, or when the snow is snug around St. Petersburg's Winter Palace. Some museums are free on a particular day, and visiting a sight early in the morning is always a good way of avoiding the crowds. Rainy or baking-hot seasons should be avoided, and sometimes, buildings,

or parts of them, are closed for renovation. However, you might want to visit Mali in the spring to watch the renovation of Djenné Mosque, when around 4,000 townspeople gather to replaster the mud-brick building in a splendid festival.

MEN AND MATERIALS

Conservation requires skilled craftspeople. A stone-mason these days may be as much in demand as one in the Middle Ages. The right materials are important, too. They are not only required to be authentic, but they must also work within their limitations. Stone can only reach a certain height and it wasn't until the 19th century that the 482-ft (147-m) high Great Pyramid at Giza was surpassed.

Discoveries pepper the 19th century, a time when steam power made travel easier and artifacts from sights were waiting to be uncovered. Ideas were revived, too, and the century saw the rebirth of many styles. France's Arc de Triomphe revisited the Classical style, while Budapest's Parliament revived the Gothic style. Castle building was spectacularly revived in King Ludwig's fantasy, Neuschwanstein, in Germany, and in Portugal's Palace of Pena, where various styles were incorporated into the stately pile.

In the 20th century, new shapes became possible through the use of reinforced concrete, notable in the structures of Oscar Neimeyer's Brasília and in Frank Lloyd Wright's Solomon R. Guggenheim Museum,

completed in 1959, the year that Jørn Utzon's Sydney Opera House was begun. These were among the first buildings to make use of computer technology. Less than 50 years later, this technology helped produce marvels such as the titanium waves of Frank O. Ghery's Guggenheim Museum in Bilbao, Spain.

Buildings are monuments to patrons and architects and through them their names have been handed down to us. At ancient sites, the archeologists are also remembered, men driven by the desire to be the first to uncover treasures lost for millennia: imagine the delight of the explorer who first sighted Egypt's Abu Simbel.

Buildings have become emblems of whole nations: the Statue of Liberty, the Registan, Angkor Wat, the Taj Mahal. Romantic, exotic, seductive, the names speak volumes. By the same token, churches, monasteries, mosques, temples, and shrines have become defining symbols of different faiths, and their spaces may produce an inner peace. More modestly, buildings help to conjure up the lives of their former occupants, be they the homes of artists such as Rubens in Antwerp, or palaces for rulers, like the Forbidden City in Beijing, home to emperors of dynastic China.

Whatever a building's form and function, and whatever its age and condition, it always has many stories to tell. In these pages, walls are peeled back and the layers of history are revealed to provide an opportunity to step inside and let the imagination roam.







CONSTRUCTION METHODS

The earliest stave churches, built in the 11th century, had wooden wall columns that were set directly into the ground. These churches lasted no more than 100 years, since moisture in the ground caused the column bases to rot away. As construction techniques developed, it became customary to set the wooden framework on sills that rested on a stone foundation. This raised the entire wooden skeleton above ground level, protecting it from humidity. This method proved so effective that churches built in the 12th century are still standing today.

STAVE CHURCH DESIGN

Borgund Stave Church is one of the largest and most ornately designed of the almost 30 remaining stave churches in Norway. Usually stave churches were simple, relatively small structures with a **nave** and a narrow chancel. Borgund's chancel also has a distinctive semicircular apse. Stave posts mark a division between the two. The interior is dark, since light can only filter through from small round openings (**windows**) under the three-tiered roof, which is crowned by a turret. An **external gallery** often encircles stave churches.

ORNAMENTATION

The introduction of Christianity to Norway around the year 1000 saw the merging of pagan and Christian cultures and beliefs. Most stave churches were erected on the sites of old temples that were destroyed in the wake of Christianity. The impact of this can be seen in the richly decorated carvings in stave churches, which unite pre-Christian and Christian symbolism. Pagan gods were represented in disquise alongside medieval Christian saints. The door frame designs (West Door) are particularly elaborate and demonstrate the skill of the carpenters who embellished them from top to bottom with intricate carvings. Wood from pine trees was commonly used, since this was most readily available. Branches and bark were removed from the trees, which were then left to dry out before being chopped down. This method meant that the wood was more weather-resistant and durable

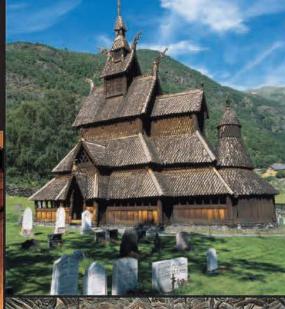
Borgund Stave Church, Norway

The only stave church to have remained unchanged since the Middle Ages is Borgund Stavkirke at Lærdal in western Norway. Dedicated to the apostle St. Andrew, it dates from around 1150 and is built from almost 2,000 carefully crafted pieces of wood. The interior is very simple: there are no pews or decorations, and the lighting is limited to a few small openings high up on the walls. The exterior is richly decorated with carvings: dragonlike animals in life-and-death struggles, dragonheads, and runic inscriptions. There is a 16th-century pulpit and a free-standing belfry with a medieval bell.

Stave Church Location >

Many of the surviving stave churches are in remote locations. High, exposed sites that were noticeable and remarkable were generally chosen to create a dramatic visual effect







★ West Door

The exterior of the church is richly adorned. The decorations on the Romanesque West Door feature vinelike ornamentation and depictions of dragon battles.

A Intricate framework of the main roof

KEY DATES				
c. 1150	1300s	15 00-1 62 0	1870	
Borgund Stave Church is built to replace the rotting existing church.	A chancel and an apse are added to the building.	The pulpit is constructed and the altarpiece added.	The church goes out of regular service when a larger church is constructed nearby.	

KING OLAV THE HOLY Olav Haraldsson became king of a united Norway in 1016 and went on to convert the country to Christianity. Pagan statues were torn down and stave churches built. He died in battle in 1030. A year later, his body was exhumed and he was declared a saint. King Olav the Holy ■ Main Roof

This, along with the other roofs, is clad in pine shingles.

☑ Nave

Twelve posts (staves) around the central part of the nave support the roof. Disappearing into the semidarkness of the roof, they give an increased sense of height.

Crosses

The gables above the doorways and apse tower are decorated with plain crosses.

■ West Door

Central Tower

Spire

This sits atop the

three-tiered roof.

There are three tiers on the roof of this tower. The first tier is decorated with dragonheads on the gables, similar to those on the main roof. These were meant to cleanse the air, purging it of the evil spirits of unlawful pagan worship.

Windows

Simple, circular openings in the outer walls let in a small amount of light.

▲ **Altarpiece** The interior of Borgund Church contains no ornate embellishment, only a simple pulpit and altar. This altarpiece dates from 1654.

Crosses of St. Andrew The central nave is bordered by crosses in the shape of the letter "X."

External gallery

VIKING HERITAGE

Entrance

Rich ornamentation in stave churches is evidence of Norway's Viking era, when skilled carving techniques were developed to combine art and woodworking in construction. The depiction of animals such as dragons and serpents in these carvings is thought to derive from Viking art

¥ Lion Figurehead

King Gustav II Adolf, who commissioned Vasa, was known as the Lion of the North, so a springing lion was the obvious choice for the 13-ft (4-m) figurehead.





▲ Gun Ports ∢ Bronze Cannon





▲ Upper Gun Deck Visitors cannot enter the warship itself, but a full-size replica of the upper gun

deck, with carved wooden dummies of sailors, is on view, giving a good idea of conditions on board.

Vasa Museum, Stockholm

Sweden's most popular museum enshrines the royal warship Vasa, which capsized on its maiden voyage of just 4,265 ft (1,300 m) in calm weather, on August 10, 1628, in Stockholm's harbor. About 50 people went down with what was designed to be the pride of the Swedish Navy. Guns were all that was salvaged from the Reconstructed vessel during the 17th century, and it was not until 1956 that a marine archeologist's persistent search led to

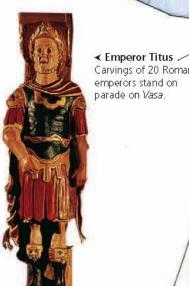
> ▲ Lion figurehead

the rediscovery of Vasa. After a complex salvage operation, followed by a 17-year conservation program, the Vasa Museum was opened in June 1990, less than a nautical mile from the scene of the disaster.





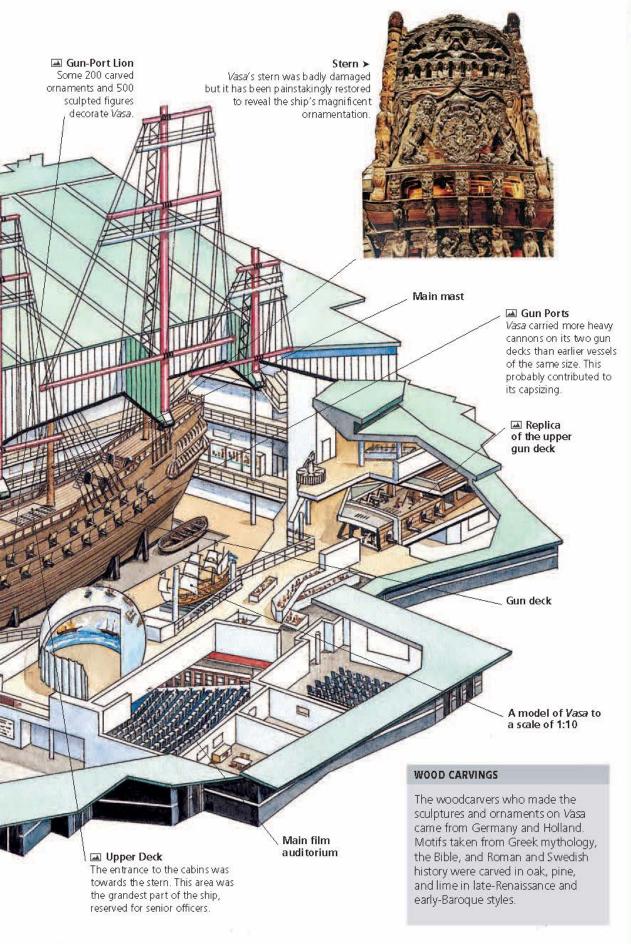








rigging



KEY DATES				
1625	1628	1956	1961	1990
King Gustav II Adolf orders new warships, including <i>Vasa</i> .	Vasa is ready for its maiden voyage, but it capsizes in Stockholm's harbor.	Archeologist Andérs Franzen locates <i>Vasa</i> and participates in its salvage.	Vasa is raised to the surface after 333 years on the seabed.	The Vasa Museum opens as a permanent museum, showing the restored Vasa and its treasures.



THE SHIP

Vasa was built as a symbol of Swedish might by King Gustav II Adolf, who was steadily increasing Swedish influence over the Baltic region during the 1620s, through war with Poland. Vasa was the largest vessel in the history of the Swedish fleet and was capable of carrying 64 cannons and more than 445 crew. From its 170-ft (52-m) high stern it would have been possible to fire down upon smaller ships. Vasa was equipped for both traditional close combat and artillery battles. The musketeers had shooting galleries for training, and on the upper deck were so-called "storm pieces," erected as protection against musketry fire.

LIFE ON BOARD

Vasa's intended destination on its maiden voyage was the Alvsnabben naval base in the southern Stockholm archipelago, where more soldiers were to embark. Each man's life on the ship would have been determined by his rank. The officers would have slept in bunks and the admiral in his cabin. Officers also ate better food than the crew, whose meals were very basic, and consisted of beans, porridge, salted fish, and beer. The decks would have been very crowded—the small space between every two guns was the living and sleeping guarters for seven men (gun deck). There was no fresh food, so many of the crew would have had scurvy and died from deficiency diseases before they reached battle.

THE SALVAGE OPERATION

The marine archeologist Andérs Franzen had been looking for *Vasa* for many years. On August 25, 1956, his patience was rewarded when he brought up a piece of blackened oak on his plumb line from *Vasa*, located 100 ft (30 m) beneath the surface. From the autumn of 1957, it took divers two years to clear tunnels under the hull for the lifting cables. The first lift with six cables was a success, after which *Vasa* was lifted in 16 stages into shallower water. Thousands of plugs were then inserted into holes left by rusted iron bolts. The final lift started on the morning of April 24, 1961, and on May 4, *Vasa* was finally towed into dry dock after 333 years under water.



TARA AND ITS KINGS

A site of mythical importance, Tara was the political and spiritual center of Celtic Ireland and the seat of the High Kings until the 1.1th century. Whoever ruled Tara could claim supremacy over the country. It is thought that many of Tara's kings were buried in pagan ceremonies at Newgrange. Tara's importance as a spiritual center diminished as Christianity flourished. Legend says that Tara's most famous king, Cormac Mac Art, who ruled in the 3rd century, did not want to be buried at Newgrange among pagan kings. His kinsmen, disregarding his wish, tried to cross the Boyne River to Newgrange but failed due to the huge waves and so he was buried elsewhere.

WINTER SOLSTICE AT NEWGRANGE

The shortest day and the longest night occurs each year on December 21 and is known as the winter solstice. At Newgrange, on the morning of December 21, rays of sunlight shine into the roof box of the passage grave and light up the passage, illuminating the north recess of the cruciform burial chamber. At all other times of the year, the tomb is shrouded in darkness. Newgrange is the only passage grave currently excavated that has this characteristic—temples tend to be the usual locations for this type of event. Many believe that because of this, Newgrange was originally used as a place of worship, and only later as a burial ground for pagan kings.

DOWTH AND KNOWTH

Described as the "cradle of Irish civilization," the Boyne valley contains two other prehistoric burial sites not far from Newgrange. The closest is Knowth, which is just 1 mile (1.6 km) away. Excavation of this site began in 1962 and it was found to contain two tomb passages and the greatest concentration of megalithic art in Europe. Archeologists also found evidence that the site was occupied from the Neolithic period and was used for habitation as well as for burials up until about 1400. Dowth, another passage grave 2 miles (3 km) from Newgrange, is less spectacular. Its tombs are smaller and most of its artifacts were stolen by Victorian souvenir hunters.

Newgrange



Tri-spiral carving on stone in chamber

The origins of Newgrange, one of the most important passage graves in Europe, are steeped in mystery. According to Celtic lore, the legendary kings of Tara were buried here, but Newgrange predates them. The grave was left untouched by all invaders except the Danish, who raided its burial chambers in the 9th century. In 1699, it was rediscovered by a local landowner, Charles Campbell Scott. When it was excavated in the 1960s, archeologist Professor M. J. O'Kelly discovered that on the winter solstice, December 21, rays of sunlight enter the tomb and light up the burial chamber—making it the world's oldest solar observatory.

Burial Chamber Ceiling

The burial chamber's intricate corbelled ceiling, which reaches a height of 20 ft (6 m) above the floor, has survived intact.

The overlapping slabs form a conical hollow, topped by a single capstone.

Burial Chamber

There are three recesses, or side chambers: the north recess is the one struck by sunlight on the winter solstice.

■ Basin Stone

The chiseled stones found in each recess would once have contained funerary offerings and the bones of the dead.

CONSTRUCTION OF NEWGRANGE

Newgrange was designed by people with exceptional artistic and engineering skills. Without the use of the wheel or metal tools, Mound they transported about 200,000 tons of loose stones to build the mound, or cairn, that Entrance pro-tects the passage grave. Larger slabs were used to make the circle around the cairn (12 out of a probable 35 stones have survived), the curb, and the tomb itself. Many Stone circle of the curbstones and the slabs lining the (existing stones 328 ft passage, the chamber, and its recesses are shaded) 100 m decorated with zigzags, spirals, and other motifs. The corbelled ceiling consists of smaller, unadorned slabs. Passage

Plan of passage and burial chamber

Decorated stones (shaded)

Recesses Passage Entrance

Standing Stones The passage contains slabs of slate, which would have been

collected locally

25 m

c. 1140

KEY DATES

Construction of the tomb at Newgrange by Neolithic farmers. Danish invaders raid the burial chamber and remove most of its treasures.

c. 860

Newgrange is used as farmland for grazing cattle until the 14th century. Newgrange is restored and the roof box is discovered.

1962-75

Archeologists learn that rays of sunlight shine up the chamber on the winter solstice, December 21.

1967

Newgrange is listed as a UNESCO World Heritage Site.

1993



▲ Megalithic motifs adorning the walls of Newgrange

Roof box

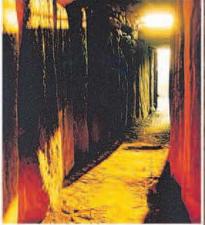


¥ Burial Chamber Ceiling



▲ Restoration of Newgrange Located on a low ridge north of the Boyne River, Newgrange took more than 70 years to build. Between 1962 and 1975, the passage grave and mound were restored as closely as possible to their original state.



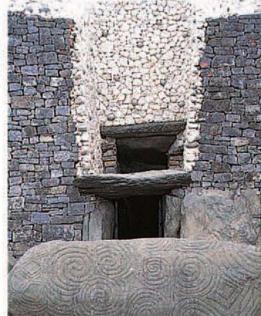


Basin Stone ➤

Entrance >



The opening was originally blocked by the stone standing to its right. Newgrange's most elaborately carved curbstone is in front, part of the curb of huge slabs around the cairn.



Retaining Wall White quartz and granite stones found scattered around the site during excavations were used to

rebuild this wall around the front of the cairn.

MYTHOLOGICAL TALE

In Irish mythology, Aenghus Mac Og was the God of Love, who tricked his way into owning Newgrange. It is said that he was away when the magical places of Ireland were being divided up. On his return, he asked to borrow Newgrange for the day and night, but refused to give it back, claiming it was his, since all of time can be divided by day and night.



THE BOOK OF KELLS

The most richly decorated of Ireland's medieval illuminated manuscripts, the Book of Kells may have been the work of monks from the island of Iona in Scotland, who fled to Kells in County Meath in 806 after a Viking raid. The book, which was moved to Trinity College (Old Library Treasury) in the 17th century, contains the four Gospels in Latin. The scribes who copied the texts embellished their calligraphy with intricate, interlacing spirals, as well as human figures and animals. Some of the dyes used in the manuscript were imported from as far away as the Middle East. The monogram page is the most elaborate page in the book, and contains the first three words of St. Matthew's account of the birth of Christ.

FAMOUS ALUMNI

Since its foundation, Trinity has cultivated many distinguished writers and historical figures. Their time here had a discernable impact on their lives. Among the most outstanding graduates are the writers and dramatists Jonathan Swift, Oliver Goldsmith, Oscar Wilde, Bram Stoker, William Congreve, and Samuel Beckett; the philosopher George Berkeley; the statesman and political philosopher Edmund Burke; Nobel prizewinning physicist Ernest Walton; Ireland's first president, Douglas Hyde; and Ireland's first female president, Mary Robinson. Statues of its famous scholars stand throughout the college.

PARLIAMENT SQUARE

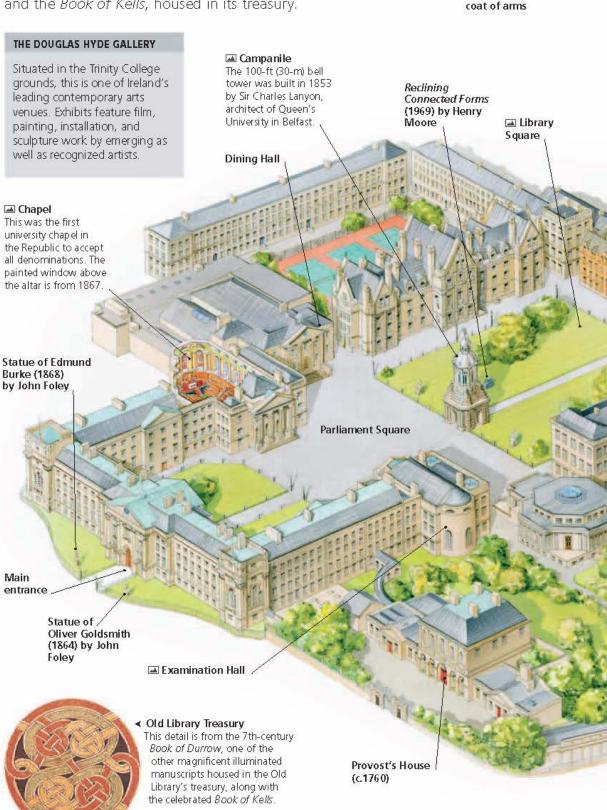
Trinity College stands on what was once part of the grounds of All Hallows monastery. The wood-tiled archway at the main entrance leads to Trinity's main quadrangle (Parliament Square). Fine green lawns and an array of splendid 18th- and 19th-century buildings characterize the cobbled square. An imposing centerpiece (Campanile) marks the original site of the monastery. The chapel was designed by Sir William Chambers in 1798. Beside it is the Dining Hall, built by Richard Castle in 1742, where Trinity's students eat. This building has been considerably altered over the past 250 years, particularly after a fire in 1984 that caused severe damage. Its walls are hung with huge portraits of college dignitaries.

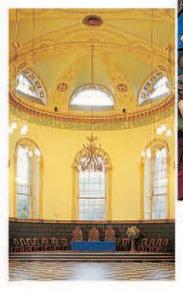
Trinity College, Dublin

Queen Elizabeth I founded Trinity College, Dublin's oldest and most famous educational institution, in 1592. Originally a Protestant college, it only began to take Catholics in large numbers after 1970, when the Catholic Church relaxed its opposition to them attending. Among Trinity's many famous students were the playwrights Oliver Goldsmith and Samuel Beckett, and the political writer Edmund Burke. The college's lawns and cobbled guads provide a pleasant haven in the heart of the city. The major attractions are the Old Library and the Book of Kells, housed in its treasury.



Trinity College





▲ Examination Hall

Entrance to the Old Library



▲ Chapel Window

Museum Building

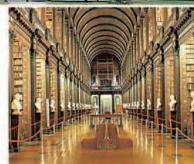
New Square

Completed in 1857, this is notable for its Venetian exterior, and its magnificent multicolored hall and double-domed roof.



▲ Library Square

The red-brick building (known as the Rubrics) on the east side of Library Square was built around 1700 and is the oldest surviving part of the college.



▲ Old Library





Sphere within Sphere

This sculpture (1982) was given to the college by its creator, Arnaldo Pomodoro.

Marble bust of the author Jonathan Swift in the Old Library >



Berkeley Library Building (1967) by Paul Koralek

Douglas Hyde Gallery

This was built in the 1970s to house temporary art exhibitions.

SAMUEL BECKETT (1906-89)

Nobel prize winner Samuel Beckett was born at Foxrock, south of Dublin. In 1923, he entered Trinity, and later graduated with a first in modern languages and a gold medal. He was also an avid member of the college cricket team. Forsaking Ireland, Beckett moved to France in the early 1930s. Many of his major works, such as Waiting for Godot (1951), were written in French, and later translated by the author into English.

Samuel Beckett



The library's main chamber, the splendid Long Room (1732), measures 210 ft (64 m). It houses 200,000 antiquarian texts, marble busts of scholars, and Ireland's oldest harp.

Fellows' Square

KEY DATES

monastery.

1592

Trinity College is founded on the site of All Hallows

The medieval Book of Kells is given to Trinity by the Bishop of Meath.

c. 1661

1689

Entrance from Nassau Street

> The college is temporarily turned into a barracks.

1712-61

A building drive Religious results in the restrictions creation of the on entry are Old Library and abolished. the Dining Hall.

1793

1853

The Campanile is erected and becomes a symbol of Trinity College

Restoration of the Dining Hall, damaged during a fire in 1984,

1987

takes place.



CASHEL MUSEUM

The 15th-century, two-story Hall of the Vicars Choral was once the residential quarters of the cathedral choristers and today displays copies of medieval artifacts and furnishings. Its lower level houses the Cashel Museum, which exhibits rare silvenware, stone carvings and St. Patrick's Cross, a 12th-century crutched cross with a crucifixion scene on one side and animals on the other. The cross stands on a supporting coronation stone dating from the 4th century. Tradition held that the kings of Cashel were crowned at the base of the cross.

CORMAC'S CHAPEL

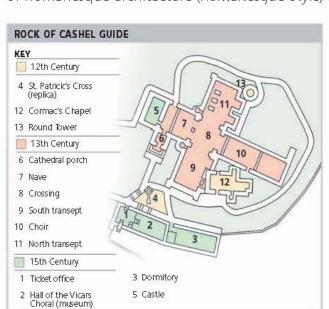
The king of Munster, Cormac MacCarthy, donated this chapel to the Church in 1134, because it had helped to protect the Rock of Cashel from being invaded by the Eoghanachta clan. Romanesque in style, the chapel was constructed in sandstone with a stone roof and two towers on either side of the nave and chancel. The interior is decorated with various motifs, some showing dragons and human heads. At the west end of the chapel is a stone sarcophagus embellished with serpent carvings. This is thought to have once contained the body of Cormac MacCarthy. The chancel is decorated with the only surviving Romanesque frescoes in Ireland, which include a depiction of the baptism of Christ.

LIFE OF ST. PATRICK

Born in Wales in 385, St. Patrick lived his early life as a pagan. At the age of 16, he was captured and sold as a slave to work in Ireland. During his captivity, he converted to Christianity and dedicated his life to God. He escaped and traveled to France, where he entered St. Martin's monastery to study the scriptures, under the guidance of St. Germain of Auxerre. He was appointed Bishop to Ireland in 432 and went on to found some 300 churches and baptize more than 120,000 people, including King Aenghus, when he visited Cashel in 450. Today, the life of St. Patrick, Ireland's patron saint, is celebrated on March 17 all over the world with special religious services and the wearing of shamrocks—the three-tipped clover leaf that is the national emblem of Ireland.

Rock of Cashel

A symbol of royal and priestly power for over 1,000 years, this is one of Ireland's most spectacular archeological sites. From the 5th century, it was the seat of the kings of Munster, whose kingdom extended over much of southern Ireland. In 1101, they handed Cashel over to the Church, and it flourished as a religious center until a siege by English troops in 1647 culminated in the massacre of its 3,000 occupants. The cathedral was finally abandoned in the late 18th century. A good proportion of the medieval complex is still standing, and Cormac's Chapel is one of Ireland's most outstanding examples of Romanesque architecture (Romanesque Style, see p.122).

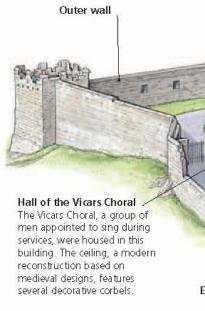




the Hall of the Vicars Choral

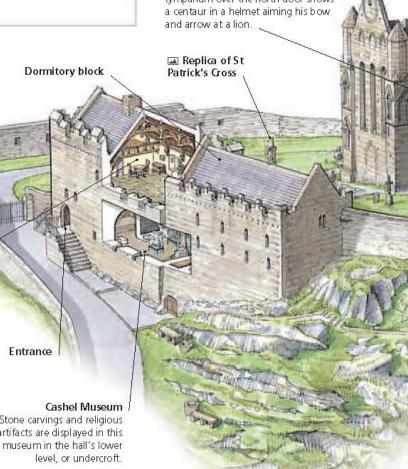


Cormac's Chapel Superb Romanesque carving adorns this chapel—the jewel of Cashel. The tympanum over the north door shows a centaur in a helmet aiming his bow





Dormitory block





▲ North Transept

There are three 16th-century tombs here, decorated with remarkably fresh and intricate carvings. This one, against the north wall, features a vine-leaf design and strange stylized beasts.

ST. PATRICK AND KING AENGHUS

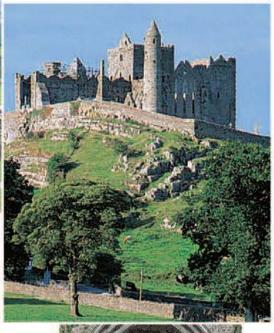
During the baptism ceremony of King Aenghus, St. Patrick accidentally stabbed him in the foot with his crozier and the king, thinking it was part of the initiation, bore the pain without complaint.



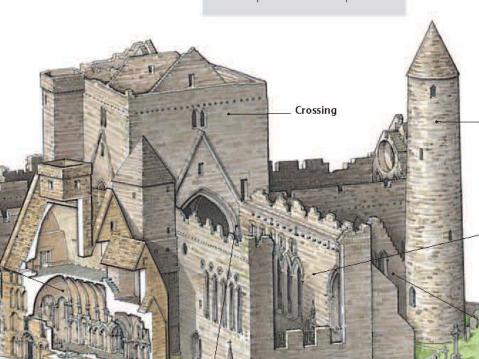
A Replica of the 12th-century St. Patrick's Cross; the original is in the museum

Round Tower >

The Rock's oldest surviving building, this 92-ft (28-m) free-standing bell tower enabled the inhabitants to scour the surrounding plain for potential attackers.



St Patrick's Cathedral >



Round tower

The 17th-century tomb of Miler Magrath—who caused a scandal by being both a Protestant and a Catholic archbishop at the same time—is located here.



O'Scully Monument

This ornate memorial, erected in 1870 by a local landowning family, suffered damage during a storm in 1976.

North transept

St. Patrick's Cathedral /

The roofless Gothic cathedral has thick walls riddled with hidden passages; in the north transept these are seen emerging at the base of the windows.

KEY DATES

450

deligible of

St. Patrick visits Cashel and converts King Aenghus to Christianity.

1101

Cashel is handed over to the Church by King Muircheatach O'Brien.

Limestone rock

1127-1134

King Cormac MacCarthy builds Cormac's Chapel as a gift to the Church.

1230-1270

Graveyard

The large, aisleless, cruciform St. Patrick's Cathedral is built.

1647

Cashel is invaded and besieged by an English army under Lord Inchiquin.

1975

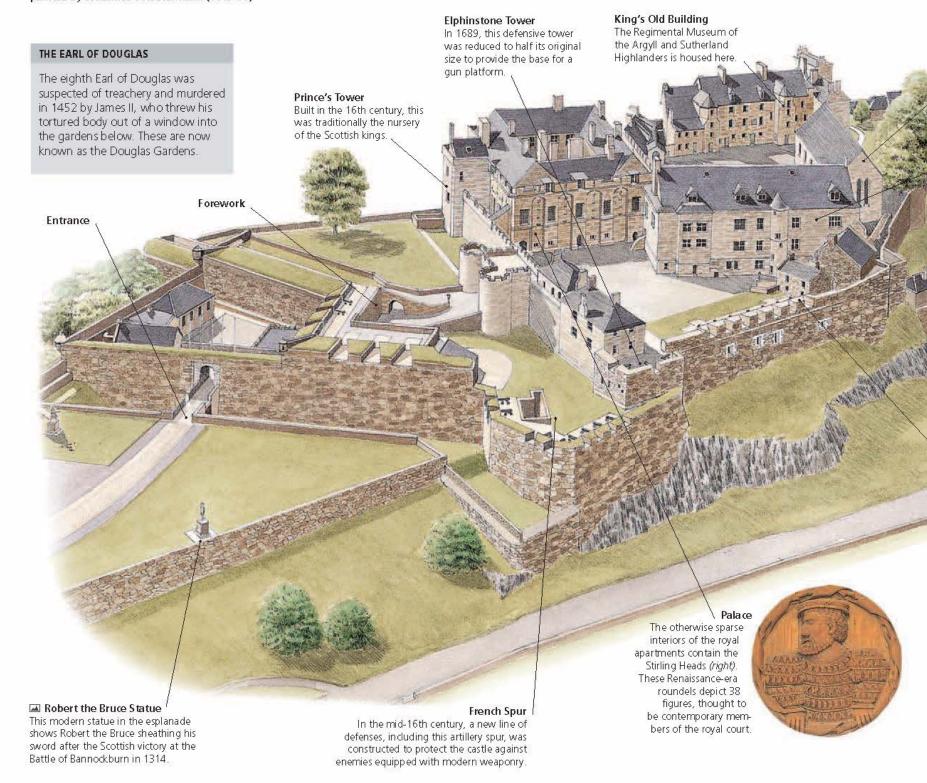
The Hall of the Vicars Choral undergoes restoration work

Stirling Castle



A Stirling Castle in the Times of the Stuarts, painted by Johannes Vorsetermann (1643–99)

Rising high on a rocky crag, this magnificent castle was prominent in Scottish history for centuries and remains one of the finest examples of Renaissance architecture in Britain (Renaissance Style, see p.131). Legend has it that King Arthur wrested the original castle from the Saxons, but there is no historical evidence of a castle at this location before 1124. The present building dates from the 15th and 16th centuries and was last defended in 1746 against the Jacobites, who were mainly Catholic Highlanders wishing to restore the Stuart monarchy to the throne. Between 1881 and 1964, the castle was used as a depot for recruits into the Argyll and Sutherland Highlanders, although it serves no military function today.







A Grand Battery

The royal hall has been carefully

restored to appear as it would

have in the early 1500s.



▲ Gargoyle on castle wall

Chapel Royal

Great Hall

Chapel Royal A Seventeen th-century frescoes by Valentine Jenkins adorn this rectangular chapel, which was built in 1594.

Nether Bailey





KEY DATES	Ĭ						
1296	1297	13 14	1496	1501	1503	1855	1964
Edward I captures Stirling Castle.	The castle yields to the Scots after the Battle of Stirling Bridge:	Robert the Bruce defeats the English at the Battle of Bannockburn.	James IV begins extensive construction.	Work begins on the Great Hall.	Building work starts on the forework.	The King's Old Building is badly damaged by fire.	The army leaves the castle barracks

STIRLING BATTLES

At the highest navigable point of the Forth, and holding the pass to the Highlands, Stirling occupied a key position in Scotland's struggles

for independence. Seven battlefields can be

Abbey Craig recalls William Wallace's defeat

of the English at Stirling Bridge in 1297, fore-

shadowing Robert the Bruce's victory in 1314.

The Victorian Wallace Monument

seen from the castle; the Wallace Monument at

ATLANTIC OSTIRLING CASTLE OCEAN Edinburgh NORTH GREAT SEA GREAT BRITAIN HELAND THE Birming ham NETHERMANDS London BELGIUM FRANCE

THE BATTLE OF BANNOCKBURN

Stirling Castle was strategically vital to Scotland's military resistance to the English, and was frequently under siege as a result. In 1296, Edward I of England led a devastating invasion that defeated the Scots, but William Wallace organized a revolt, recapturing the castle in 1297, only to lose it again the following year. On June 23, 1314, Scotland, led by Robert the Bruce, won back its independence at the Battle of Bannockburn. However, the wars with England continued for another 300 years. The castle's last military use was against an attack by the Jacobite army in 1746, after which the English army set up barracks here until 1964.

THE GREAT HALL

This splendid royal hall, the largest ever built in Scotland, was erected by James IV between 1501 and 1504 to host lavish state events and banquets. When the focus of the monarchy shifted to London after the Union of the Crowns in 1603—when King James VI of Scotland became King James I of England—the **Great Hall** was no longer required for state occasions. Changes were made to the hall in the 18th century to reinforce the castle's defenses and to create space for military barracks. After more than 30 years' work, the Great Hall, restored as closely as possible to its original condition, was reopened by Queen Elizabeth II on November 30, 1999.

THE KING'S OLD BUILDING

Built for James IV around 1496 as his private residence in the castle, the King's Old Building stands on the highest point of the volcanic castle rock and commands long, wide views. Following the completion of the Palace in the 1540s, the King's Old Building was no longer the ruling monarch's residence and so was put to a variety of uses. Additional floors and walls were added in the 1790s to provide accommodation for a military garrison. It was also rebuilt after fire damage in the mid-19th century. The building now serves as the regimental home and museum of the Argyll and Sutherland Highlanders and contains a collection of memorabilia that includes medals, uniforms, and weapons.



STONE OF DESTINY

The origins of this famous stone are steeped in myth and legend. It is said to have been Jacob's pillow when he dreamed that the angels of God were descending to Earth from heaven. Scottish kings, from Kenneth I in 847, sat on the stone during coronation ceremonies. It was kept in Scone, Perthshire, which is why it is sometimes called The Stone of Scone. The stone was seized on Edward I's invasion of Scotland in 1296 and taken to Westminster Abbey, where it was kept for 700 years. The 1326 Treaty of Northampton promised the return of the stone, but this was not honored until 1996, when a handover ceremony took place at the English-Scottish border and the stone was transported to Edinburgh Castle, where it remains today.

VOLCANIC GEOLOGY

Edinburgh Castle is set in the Midland valley of Scotland. The rocky volcanic outcrops of Arthur's Seat (823 ft/251 m) and Salisbury Crags (400 ft/122 m) dominate Edinburgh's skyline. Salisbury Crags are igneous rocks exposed by the tilting of local rock and erosion by glaciers. Arthur's Seat is the remnant of a Carboniferous volcano, partly eroded by glacial activity. Edinburgh Castle sits on a rock that plugs a vent of this volcano. The "crag" of basalt on which it stands was resistant to glacial erosion in the last Ice Age. This left a "tail" of soft sedimentary rock lying behind it, which forms Edinburgh's main street, the Royal Mile.

THE MILITARY TATTOO

Since 1947, for three weeks over the summer, Edinburgh has hosted one of the world's most important arts festivals, with every available venue overflowing with international artists and performers (from theaters to street corners). The festival is an exciting fusion of film, music, theater, dance, comedy, and literature. The most popular event is the Edinburgh Military Tattoo, held every night on the Esplanade. The finest military bands perform, with bagpipers and drummers from Scottish regiments in full regalia. The music and marching, set against the backdrop of the illuminated Edinburgh Castle, make for a marvelous spectacle.

Edinburgh Castle

Standing on the basalt core of an extinct volcano, Edinburgh
Castle is a remarkable assemblage of buildings dating from the
12th to the 20th centuries, reflecting its changing role as fortress,
royal palace, military garrison, and state prison. There is evidence
of Bronze Age occupation of the site, which takes its name from
Dun Eidin, a Celtic fortress captured by King Oswald of Northumbria
in the 7th century. The castle was a favorite royal residence until
the Union of the Crowns in 1603, after which the king resided in
England. After the Union of Parliaments in 1707, the Scottish regalia

Beam support in the Great Hall

England. After the Union of Parliaments in 1707, the Scottish regalia (Crown Jewels) were walled up in the palace for more than 100 years. The castle is now the zealous possessor of the so-called Stone of Destiny, a relic of ancient Scottish kings that was seized by the English and not returned until 1996.

✓ Scottish Crown Now on display in the Palace, the crown was restyled by Governor's House James V of Scotland in 1540. Complete with Flemish-style crow-stepped gables, this mid-18th-century building Military now serves as the officers' prison mess for the castle garrison. STOLEN STONE In 1950, long before the Stone of Destiny was returned to Scotland, a group of Scottish students stole the Great Hall Prison Vaults French prisoners were held here stone from Westminster Abbey. A during the wars with France in the search was mounted by the British, 18th and 19th centuries. Their but it was not found until a year graffiti can still be seen, along later in Scotland's Arbroath Abbey. with the objects they made.



▲ Edinburgh Castle viewed from Princes Street

∢ Palace

Mary, Queen of Scots (1542-87) gave birth to James VI in this 15th-century palace, where the Scottish regalia are on display.

Argyle Battery



Argyle Battery

The castle's northern defense commands spectacular views of Édinburgh's New Town.

Mons Meg

MONS MEG

The siege gun Mons Meg, near St. Margaret's Chapel, was made in 1449 for the duke of Burgundy, who subsequently gave it to his nephew, James II of Scotland (r. 1437-60), in 1457. It was used by James IV (r. 1488-1513) against Norham Castle in England

in 1497. After exploding during a salute to the duke of York in 1682, the gun was kept in the Tower of London before being returned to Edinburgh in 1829.

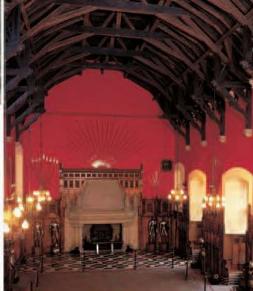


▲ Graffiti in the Prison Vaults

Great Hall ➤

With its restored open-timber roof, the hall dates from the 15th century and was the meeting place of the Scottish parliament until 1639.

The Royal Mile ->



Palace



▲ Govenor's House

Esplanade The Military Tattoo is held here.

Half Moon Battery

This was built in the 1570s as a platform for the artillery defending the castle's northeastern wing.



1296

≺ St. Margaret's Chapel This stained-glass window depicts Malcolm III's saintly

E . .

queen, to whom the chapel is dedicated. Probably built by her son, David I, in the early 12th century, the chapel is the castle's oldest surviving building.

KEY DATES

638

King Oswald of Northumbria's army captures the site and

builds a fortress.

Edward I takes the castle after an eightday siege and installs a garrison of 347 men.

1496-1511

James I adds more buildings to the castle, including the Palace.

1573

After a failed siege by Mary, Queen of Scots, the castle is modified and the Half Moon Battery is built.

1650

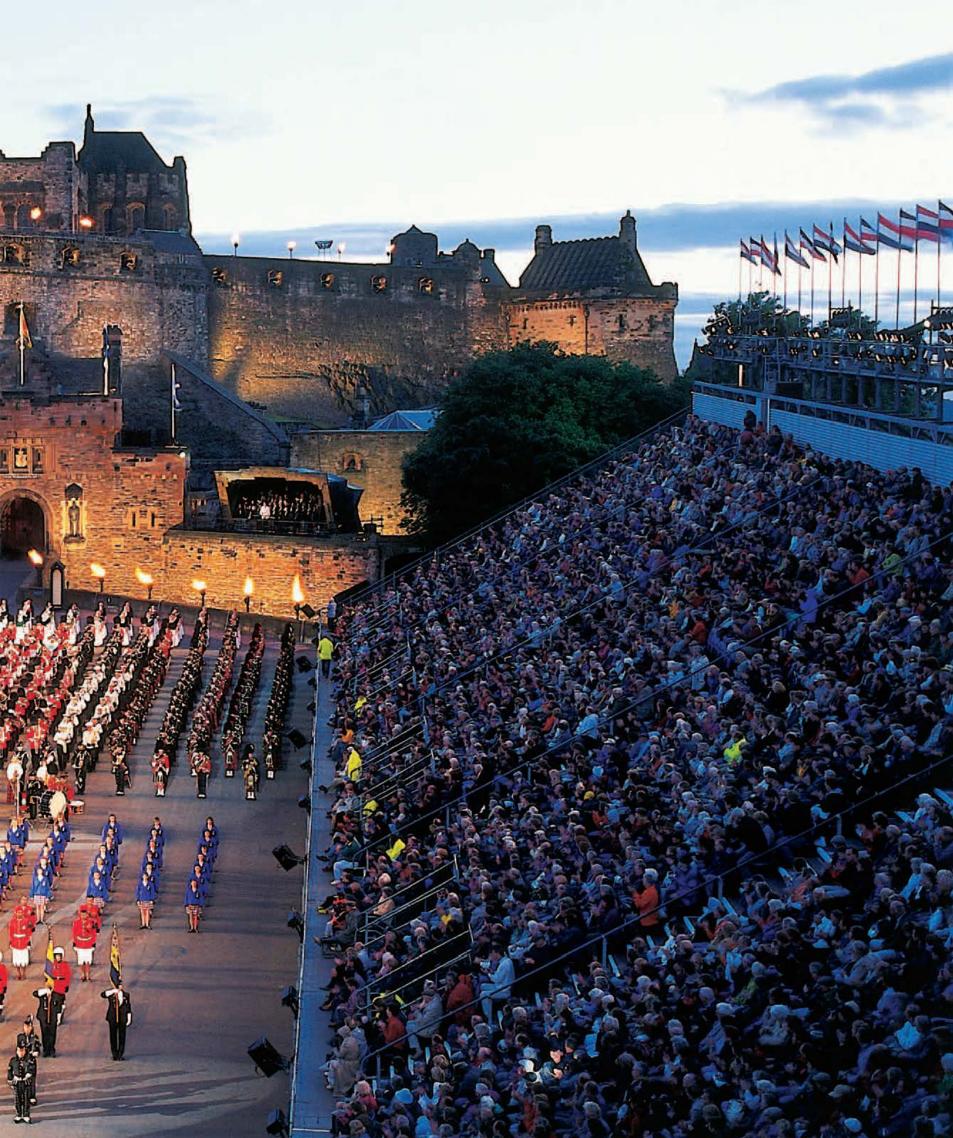
Entrance

The castle is fortified with barracks, officers' quarters, and storehouses.

1995

Edinburgh and its castle are inscribed as a UNESCO World Heritage Site.







STAINED GLASS

York Minster has an exceptional collection of medieval stained glass. The glass was generally colored during production, using metal oxides to produce the desired color, then worked on by craftsmen on site. When a design had been produced, the glass was first cut, then trimmed to shape. Details were painted on using iron oxide-based paints that were fused to the glass by firing in a kiln. Individual pieces were then leaded together to form the finished window. Part of the fascination of the minster glass is its variety of subject matter. Some windows, including the Great East Window, were paid for by lay donors who specified a particular subject; others reflect ecclesiastical patronage.

THE DECORATED GOTHIC STYLE

An example of this second phase of Gothic architecture in England (c. 1275-1380) is the Chapter House, which radiates elegantly against the backdrop of York Minster. Delicate carvings, fine stained-glass windows, elaborate tracery, and experimental vaulting typify the Decorated Gothic style. Carvings of foliage, animals, and human figures can be viewed above the stalls. Inside the nave, complex tracery can be seen throughout.

YORK MYSTERY PLAYS

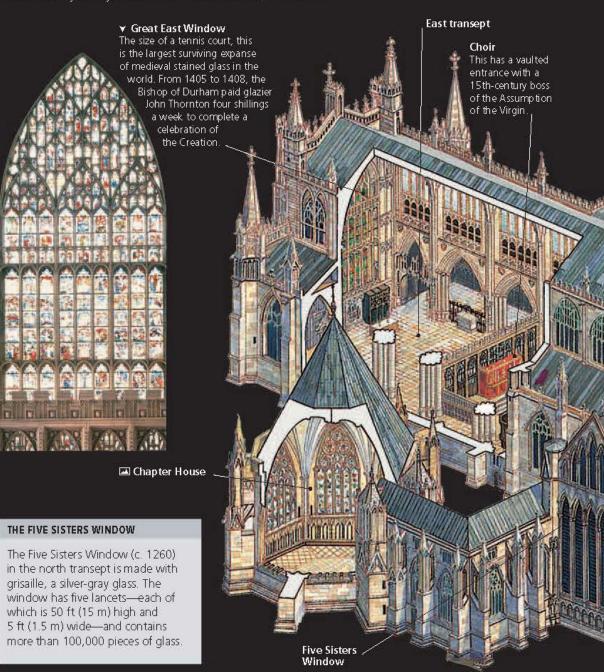
These 48 medieval dramas, which relate the history of the world from the mystery of God's creation to the Last Judgment, were originally performed between the 14th and the 16th centuries for the feast of Corpus Christi. The York Mystery Plays, or cycles, are one of only four complete English mystery play cycles to have survived. They are divided into short episodes and performed by actors standing on a wagon. The entertainers then ride through the city streets, pausing at a number of venues to perform. It was customary for different guilds to adopt the productions that often bore a connection to their trade. For example, shipbuilders were responsible for the portrayal of Noah's Ark, bakers played the Last Supper, and butchers staged the death of Christ. This cycle tradition was revived for the Festival of Britain in 1951 and has been performed every three to four years since.

York Minster

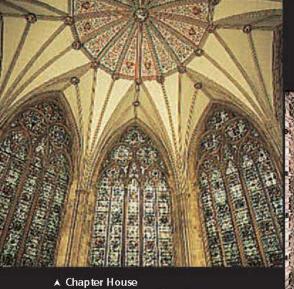
The largest Gothic cathedral in northern Europe (Gothic Style, see p.54), York Minster is 519 ft (158 m) long and 249 ft (76 m) wide across its transepts, and houses the biggest collection of medieval stained glass in Britain. The word "minster" usually refers to a cathedral served by monks, but priests always served at York. The first minster began as a wooden chapel used to baptize King Edwin of Northumbria in 627. There have been several cathedrals on or near the site, including an 11th-century Norman structure. The present minster was begun in 1220 and completed 250 years later. In July 1984, the south transept roof was destroyed by fire. Restoration cost \$4 million.



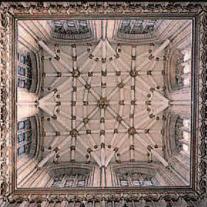
Central sunflower in the rose window



KEY DATES 1220 1472 1730-36 1840 Construction of York The cathedral is York Minster is restored Fire damages the nave; The roof in the south Minster begins on the completed and and its floor entirely repairs are completed transept is rebuilt site of several earlier consecrated. relaid in patterned four years later. following a fire in churches marble. 1984



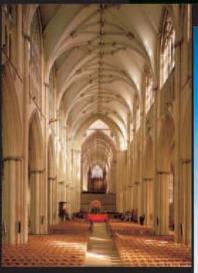
A Latin inscription near the entrance of the octagonal, rib-vaulted meeting room for the Dean and Chapter (1260– 85) reads, "As the rose is the flower of flowers, so this is the house of houses."



★ Central Tower

Reconstructed in 1420-65 (after partial collapse in 1407) from a design by the master stonemason William Colchester, the tower is 230 ft (70 m) high and its geometrical roof has a central lantern.

South transept



▲ Nave

16th-century rose window

West Towers ➤ The 15th-century decorative paneling and elaborate pinnacles on the west towers contrast with the simpler design of the north transept.



Choir Screen A

Great West Window Added between 1338 and 1339 by master stonemason Ivo de Raghton, this is often

called the "Heart of Yorkshire" because of its heart-shaped tracery symbolizing the Sacred Heart of Christ.

Choir Screen

Sited between the choir and the nave, this beautiful 15th-century stone screen depicts the kings of England from William I to Henry VI, and has a canopy of angels.

■ Nave

Work began on the nave in 1291 and was completed in the 1350s. It was severely damaged by fire in the 19th century. Rebuilding costs were heavy, but it was reopened with a peal of bells in 1844.

Great West Door

This leads into the main body of the cathedral.



FAMOUS TOMBS AND MONUMENTS

Many sovereigns and their consorts are buried in Westminster Abbey. Some tombs are deliberately plain, while others are lavishly decorated. The shrine of the Saxon king Edward the Confessor and various tombs of medieval monarchs are located at the heart of the abbey (St. Edward's Chapel). The Grave of the Unknown Warrior in the nave commemorates those killed in World War I who had no formal resting place. One unnamed soldier is buried here. Monuments to a number of Britain's greatest public figures crowd the aisles. Memorials to literary giants such as Chaucer, Shakespeare, and Dickens can be found in the South Transept (Poets' Corner).

THE LADY CHAPEL

Work on the chapel began in 1503, on the orders of King Henry VII. It was intended to enshrine Henry VI, but it was Henry VII himself who was finally laid to rest here in an elaborate tomb. The highlight of this chapel, completed in 1519, is the vaulted roof, a glorious example of Perpendicular architecture. The undersides of the choir stalls (1512) are beautifully carved with exotic and fantastic creatures. The chapel contains the fine tomb of Elizabeth I, who reigned 1558–1603, and that of her half-sister, Mary I, who ruled 1553–8.

THE CORONATION CEREMONY

Every monarch since William the Conqueror, except Edward V and Edward VIII, has been crowned in Westminster Abbey. Many elements in this solemn and mystical ceremony date from the reign of Edward the Confessor (1042-66). The king or gueen proceeds to the abbey, accompanied by some of the crowns, scepters, orbs, and swords that form the royal regalia. The jewelled State Sword, one of the most valuable swords in the world, represents the monarch's own sword. He or she is anointed with holy oil, to signify divine approval, and invested with ornaments and royal robes. The climax of the ceremony is when St. Edward's Crown is placed on the sovereign's head; there is a cry of "God Save the King" (or Queen), the trumpets sound, and guns at the Tower of London are fired.

Westminster Abbey, London

Since the 13th century, Westminster Abbey has been the burial place of Britain's monarchs and the setting for many coronations and royal weddings. It is one of the most beautiful buildings in London, with an exceptionally diverse array of architectural styles, ranging from the austere French Gothic of the nave to the astonishing complexity of the Lady Chapel. Half national church, half national museum, the abbey's aisles and transepts are crammed with an extraordinary collection of tombs and monuments honoring some of Britain's greatest public figures, from politicians to poets.

¥ Lady Nightingale's Memorial by Roubiliac (1761), north transept



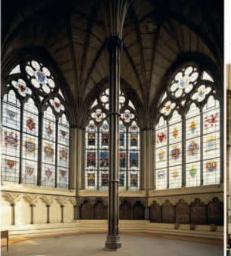


Shakespeare monument at Poets' Corner



▼ Nave

At a height of 102 ft (31 m), the nave is the highest in England. The ratio of height to width is 3:1.



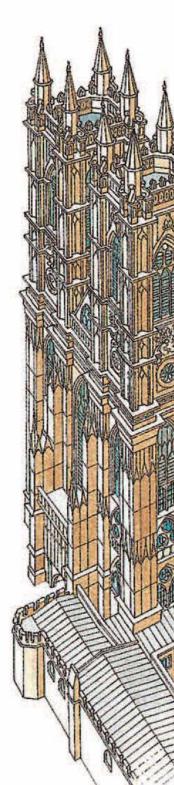


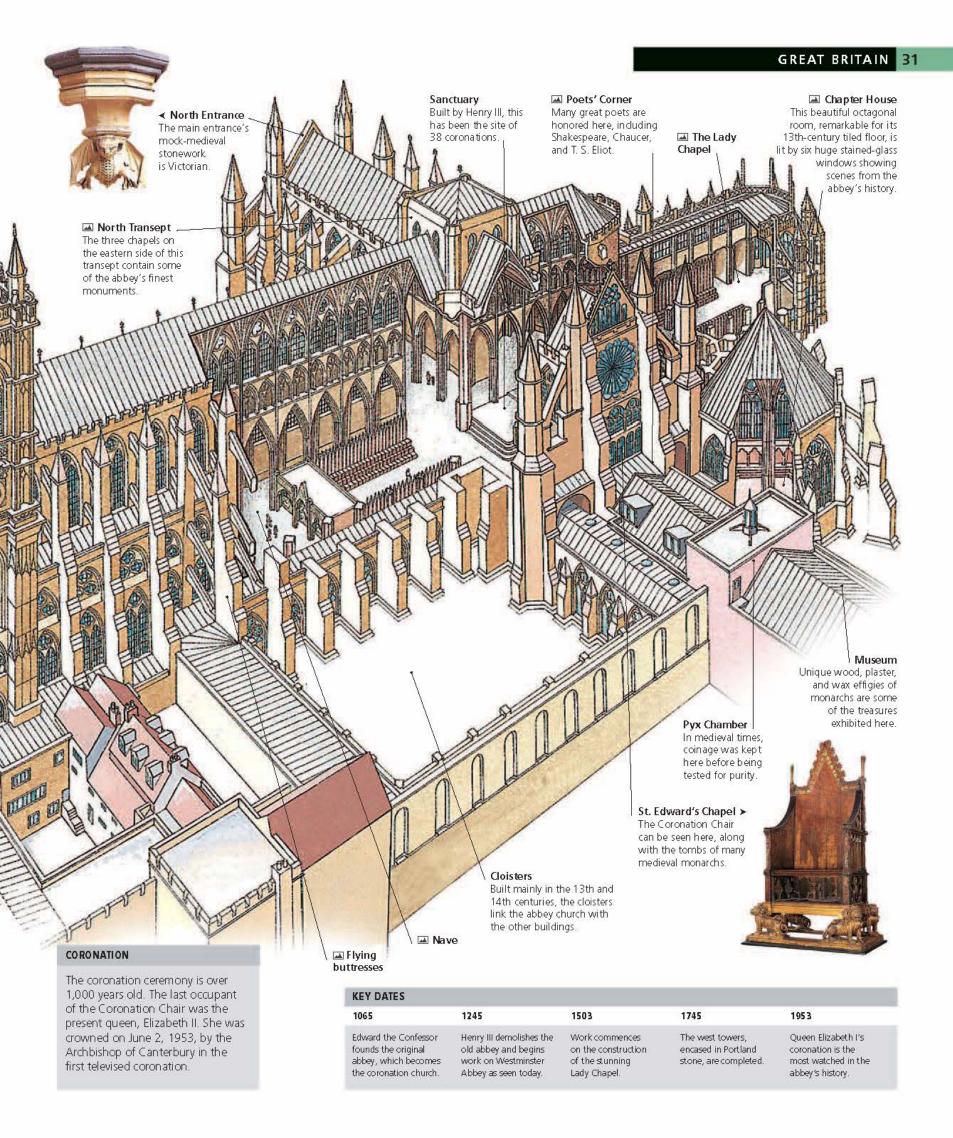




≺ Flying Buttresses
The abbey's enormous
flying buttresses help to
redistribute the great
weight of nave's
soaring roof.

≺ The Lady Chapel
The chapel, built in 1503–12,
has superb late-Perpendicular
vaultings, and choir stalls
dating from 1512.







▲ West Front and Towers

Added by Wren in 1707, the towers' design was inspired by the Italian Baroque architect Boromini.

Volentia de la constante de la



St. Paul's Cathedral, London

The Great Fire of London in 1666 left the medieval cathedral of St. Paul's in ruins. The architect Christopher Wren was commissioned to rebuild it, but his design for a church on a Greek Cross plan (where all four arms are equal) met with considerable resistance. The authorities insisted on a conventional Latin cross, with a long nave and short transepts, to focus the congregation's attention on the altar. Despite the compromises, Wren created a magnificent, world-renowned Baroque cathedral. Built between 1675 and 1710, it has been the setting for many state ceremonies.

PORTLAND STONE

Wren constructed St. Paul's of durable Portland Stone from Dorset quarries, thought to be the optimum material to withstand London's climate. More than 300 years of continuous use, and air pollution, have taken their toll, but advanced technology has made it possible to clean the exposed stonework, restoring it to its original cream color.

< Nave

An imposing succession of massive arches and saucer domes open out into the vast space below the cathedral's main dome.

West Portico

Two stories of coupled Corinthian columns are topped by a pediment carved with reliefs showing the conversion of St. Paul.

KEY DATES

1675-1710	1723	1810	1940
Wren's St. Paul's Cathedral is built. It is the fourth church to occupy the site.	Wren is the first person to be interred in the cathedral's crypt.	Many precious artifacts are lost in a major robbery.	Slight bomb damage occur during the London Blitz ir World War II.





Westporch

Main entrance, approached from Ludgate Hill At 370 ft (113 m), the elaborate dome is one of

the highest in the world.

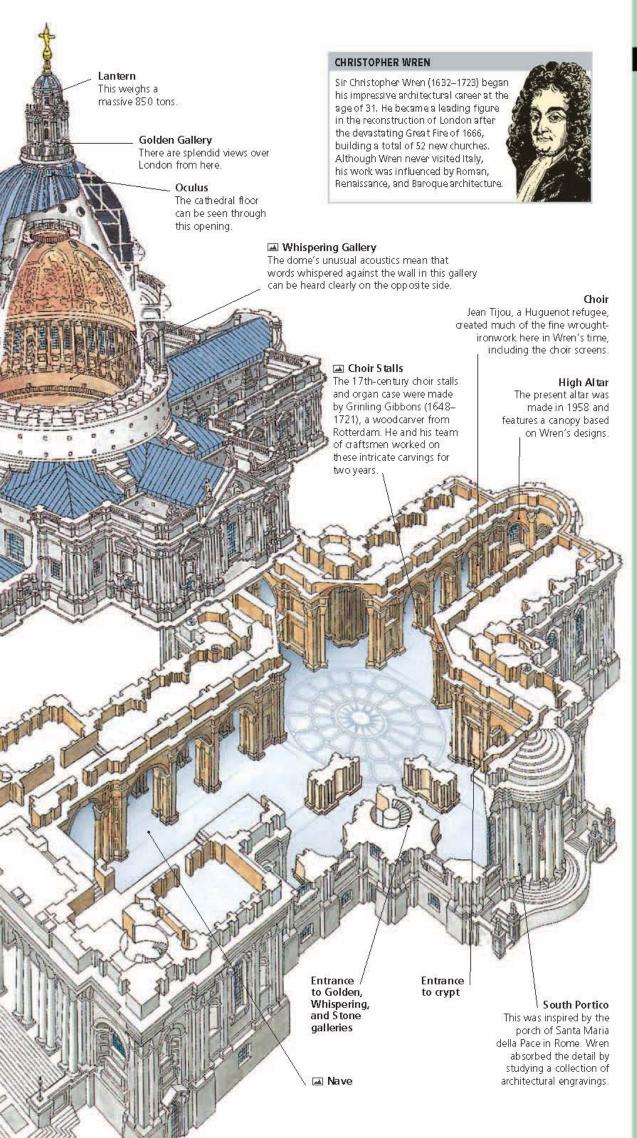
Stone Gallery

Wren's wishes.

/

■ West front

< Choir Stalls





FAMOUS TOMBS

St. Paul's Cathedral is the final resting place of Sir Christopher Wren, whose tomb is marked by a slab. The inscription states, "Reader, if you seek a monument look around you." Around 200 tombs of famous figures and popular heroes can be found in the crypt, such as Nelson, naval hero of the Battle of Trafalgar (1805), and the Duke of Wellington, hero of the Battle of Waterloo (1815). Other tombs and memorials include those of the composer Sir Arthur Sullivan, the sculptor Sir Henry Moore, and artists Sir John Everett Millais and Joshua Reynolds. Florence Nightingale, famous for her pioneering work in nursing standards and the first woman to receive the Order of Merit, is also buried here, as is Alexander Fleming, who discovered penicillin.

THE INTERIOR

The cathedral's cool, beautifully ordered, ornate and spacious interior is instantly striking. The **nave**, **transepts**, and **choir** are arranged in the shape of a cross, as in a medieval cathedral, but Wren's Classical vision shines through this conservative floor plan, forced on him by the Church authorities. The interior is dominated by the vast cupola (**dome**), which is decorated with monochrome frescoes by Sir James Thornhill. Master woodcarver Grinling Gibbons produced intricate carvings of cherubs, fruits, and garlands (**choir stalls**), while the French Huguenot wrought-ironwork genius Jean Tijou created the sanctuary gates.

SPECIAL EVENTS

Aided by some of the finest craftsmen of his day, Christopher Wren created an interior of grand majesty and Baroque splendor (*Baroque Style, see p.80*), a worthy setting for the many great ceremonial events that have taken place here. These include the funerals of Admiral Lord Nelson (1806), the Duke of Wellington (1852), and Sir Winston Churchill (1965). Celebrated royal occasions have included the wedding of Prince Charles and Lady Diana Spencer (1981) and Queen Elizabeth II's Golden Jubilee (2002). The cathedral also provided the venue for a special service to mark the September 11, 2001, attacks in the United States.

THE CROWN JEWELS

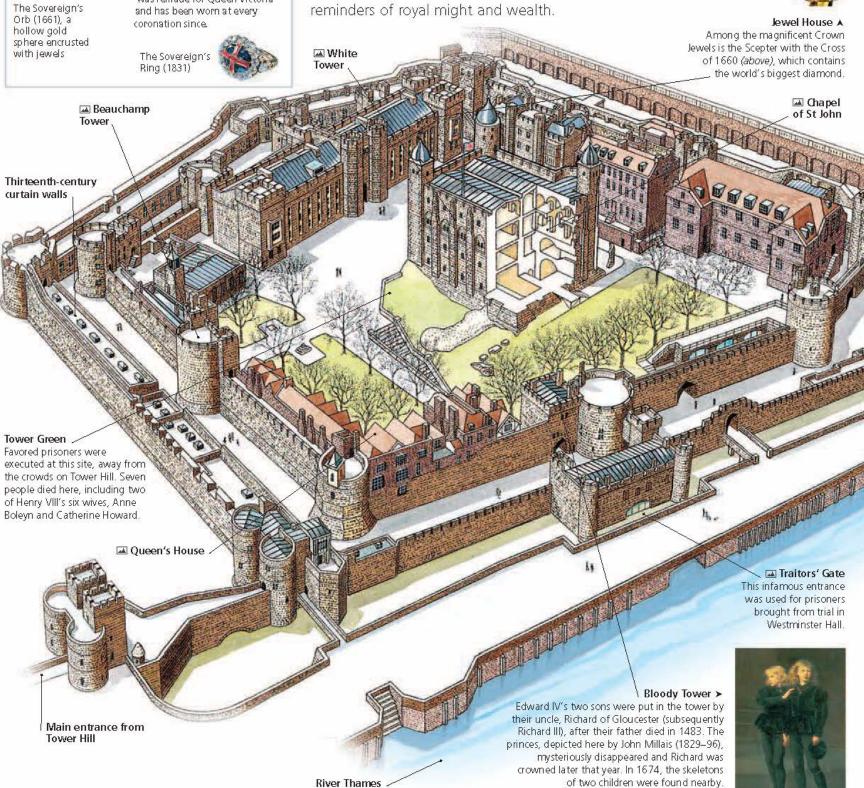
One of the world's best-known collections of precious objects includes the regalia of crowns, scepters, orbs, and swords used at coronations and other state occasions. Most date from 1661, when Charles II commissioned replacements for regalia destroyed by Parliament after the

execution of Charles I. Only a few older pieces survived, hidden until the restoration of the monarchy in 1660—notably, Edward the Confessor's (r. 1327–77) sapphire ring, now incorporated into the Imperial State Crown. The crown was remade for Queen Victoria and has been worn at every coronation since.

The Tower of London

Soon after he became king in 1066, William the Conqueror built a castle to guard the entrance to London from the Thames Estuary. In 1097, the White Tower, standing today at the center of the complex, was completed in sturdy stone; other fine buildings were added over the centuries to create one of the most powerful and formidable fortresses in Europe. The tower has served as a royal residence, an armory, a treasury, and, most famously, as a prison for enemies of the crown. Many prisoners were tortured, and among those who met their death here were the "Princes in the Tower," the sons and heirs of Edward IV. Today, the tower is a popular attraction, housing the Crown Jewels and other priceless exhibits—powerful reminders of royal might and wealth.

ge e lewel House A





Nineteenth-century Tower Bridge, which overlooks the Tower of London >

Beauchamp Tower >

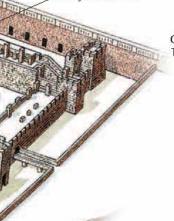
Many high-ranking prisoners were held in this tower-built by Edward I around 1281—often with a retinue of servants.



Salt Tower

Prisoners' inscriptions are carved into the walls of this tower's two residential rooms, which were used as prison cells during Tudor times.

White Tower >



Queen's House > This Tudor building is the sovereign's official residence at the tower.







"Beefeaters" > Thirty-seven Yeoman Warders guard the tower and live here. Their uniforms harken

back to Tudor times.



A Chapel of St. John This austerely beautiful Romanesque chapel is a particularly fine example of Norman architecture.

TORTURE AND DEATH

Early prisoners in the Tower of London, who were sentenced to execution, could look forward to a drawn-out death. In the 14th and 15th centuries, many would have been hanged, drawn, and quartered, or burned at the stake, although some may have been stretched on a rack first. Others were disemboweled or hacked to pieces.

KEY DATES			
1078	1533	1601	1841
Work begins on building the White Tower.	Henry VIII marries Anne Boleyn at the tower.	The last victim of the ax is beheaded on Tower Green.	Fire destroys part of the White Tower

ATLANTIC OCEAN NORTH GREAT IRELAND Birmingham . THE TOWER BELGIUN FRANCE

THE LEGEND OF THE RAVENS

The tower's most celebrated residents are a colony of seven ravens. It is not known when they first settled here, but these scavenger birds would have arrived soon after the castle was constructed to feed off the abundant refuse Their presence has been protected by a legend that says that should the birds desert the tower, the kingdom will fall. In fact, they have their wings dipped on one side, making flight impossible. The Ravenmaster, one of the "Beefeaters," looks after the birds.

FAMOUS PRISONERS

The tower has been prison to kings, queens, and notorious characters throughout its history. One of the first monarchs to be held here was Henry VI, who was murdered while at prayer in 1471. The Duke of Clarence, brother of Edward IV, was convicted of treason and killed by drowning in a cask of wine in 1478. Two of Henry VIII's wives, and his former chancellor, Sir Thomas More, were beheaded here. Even Elizabeth I was held in the tower for two months, and on her death in 1603, Sir Walter Raleigh, her favorite explorer, was imprisoned and later executed. The last prisoner, held in the Queen's House in 1941, was Rudolf Hess, deputy leader of the Nazi party.

THE WHITE TOWER

Work on the White Tower, the oldest surviving building in the tower, was begun in 1078. It was designed as a palace-fortress to accommodate the king and the Constable of the Tower, the garrison commander. Each had their own rooms, including a hall for public occasions, a partitioned chamber, and a chapel. When the fortress was enlarged a century later, both king and constable moved to new residences. On the upper two stories, the monarch's elegant royal suite was used to hold distinguished prisoners. The ceremonial chambers were twice their present height. Rising through two floors is the Chapel of St. John, an exquisite early-Norman church. This was once decorated with rich furnishings, painted stonework, and stainedglass windows, but these were removed in 1550 during the English Reformation. In the 1600s, the tower served as a storehouse and armory.



ROYAL TENNIS COURT AND THE MAZE

Henry VIII had the **Royal Tennis Court** built in the 16th century, as he was very fond of the game. Legend says that he was playing tennis at Hampton Court while his second wife, Anne Boleyn, was being executed. When William III moved into the palace in 1689, he had the gardens and the buildings remodeled. Wren's design for the gardens included the **Fountain Garden** and the **Maze**. The Maze was planted with hornbeams until the 18th century, when they were replaced with yews and hollies.

THE CHAPEL ROYAL AND THE GREAT HALL

Cardinal Wolsey had the **Chapel Royal** built during his time at Hampton Court. As soon as King Henry VIII moved in, he refurbished the chapel and installed its impressive vaulted ceiling in 1535–6. The chapel subsequently became the location for many decisive moments in Henry's life—it was here that he learned of his fifth wife Katherine Howard's infidelity and married his last wife, Catherine Parr. The **Great Hall**, with its delightful hammerbeam roof and Gothic fireplaces, was also part of Henry's rebuilding of Hampton Court. Stained-glass windows were added to the beautiful hall, showing the king flanked by the coats of arms of his six wives.

CARDINAL WOLSEY AND HENRY VIII

The English statesman and cardinal Thomas Wolsey (c. 1475-1530) was considered the most powerful person in England after the king. During Henry VIII's reign, from 1509, Wolsey was given the role of managing England's foreign affairs, as well as being the king's adviser. This important position earned Wolsey a lot of wealth, but he also had enemies. His downfall came when Henry wanted a church annulment from his first wife, Catherine of Aragon, so he could marry Anne Boleyn. Wolsey, aware that his life would be in danger if he did not achieve Henry's demand, proceeded slowly with a request to the pope. This angered the king, and also Anne, who used her influence to remove Wolsev from court. A few years later, Wolsey died suddenly on his way to face trial for treason.

Hampton Court Palace, London



Ceiling decoration in the Queen's Drawing Room

Cardinal Wolsey, influential Archbishop of York to Henry VIII, began building Hampton Court in the early 16th century. Originally it was not a royal palace, but was intended as Wolsey's riverside country house. Later, in 1528, Hampton Court was seized by the king when Wolsey fell from royal favor. The buildings and gardens were then twice rebuilt and extended into a grand palace, first by Henry himself and then, in the 1690s, by William III and Mary II, who employed Christopher Wren as architect. There is a striking contrast between Wren's Classical royal apartments and the Tudor turrets, gables, and chimneys elsewhere. The inspiration for the gardens as they are today comes largely from the time of William and Mary, for whom Wren created a vast, formal Baroque landscape, with radiating avenues of majestic limes and many collections of exotic plants.



≺ Long Water
A man-made lake runs
almost parallel with the
Thames, from the Fountain
Garden across the Home Park.



< Maze





▲ Clock Court The so-called Anne

Boleyn's Gateway is at the entrance to Clock Court. Henry VIII's Astronomical Clock, created in 1540, is also located here.

▼ Mantegna Gallery

(1480s) are housed here.

Andrea Mantegna's nine canvases

depicting The Triumphs of Caesar

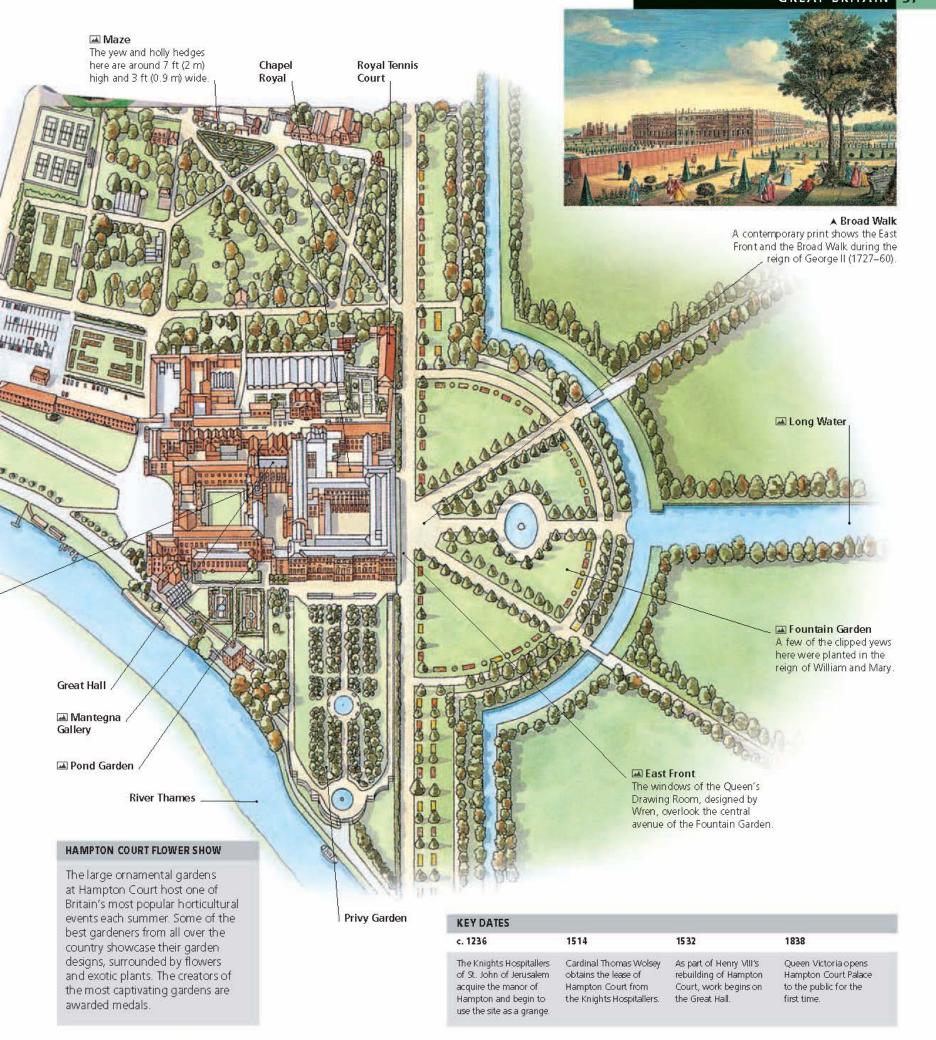


▲ East Front



▲ Pond Garden This sunken water garden was part of Henry VIII's elaborate designs.







THE BELL-BEAKER CULTURE

It is believed that the Beaker people emerged in Britain around 2200 BC. Their name derives from the distinctive bell-shaped pottery cups found in their burial mounds. They are credited with building the Bluestone Circle at Stonehenge because concentric circles were typical of their culture and much of their pottery was unearthed in the vicinity. Their advanced construction techniques suggest that the Beaker people were sun worshipers, as well as highly organized and skilled craftsmen. They created the **Avenue**, which runs directly toward the midsummer sun, and widened the entrance to the henge, aligning it more precisely with the sunrise of the summer solstice.

THE SITE

Despite centuries of archeological, religious, and mystical interest in Stonehenge, the site's original purpose remains unknown. The building of this inscrutable prehistoric megalith has been attributed to Greeks, Phoenicians, Druids, and Atlanteans. Theories on the reason it was built range from sacrificial ceremonies to astronomical calendars. Unearthed evidence of burials suggests that human sacrifices took place here, and most experts agree that Stonehenge has religious foundations. The arrangement of the stones fuels beliefs in an astronomical purpose. The significance of this site must have been great, as the stones used were not quarried locally but brought from as far away as Wales.

THE DRUIDS

Archeologists once claimed that Stonehenge was built by the Druids, the priestly class of the ancient Celts, who performed ritualistic ceremonies and sacrifices here. Although the site is still associated with the Druids, radiocarbon dating has proved that it was raised more than 1,000 years before they were established in the region, and they may have used the existing site as a temple. Today, Stonehenge is famous for modern Druid ceremonies and festivals. English Heritage, who control the site, permit Druid gatherings in the inner circle each year for the solstices and equinoxes. However, the site itself is cordoned off to protect against damage caused by an increasing number of tourists.

Stonehenge

Built in several stages from about 3000 BC, Stonehenge is Europe's most famous prehistoric monument. We can only guess at the rituals that took place here, but the alignment of the stones leaves little doubt that the circle is connected with the sun and the passing of the seasons, and that its builders possessed a sophisticated understanding of both arithmetic and astronomy. Contrary to popular belief, the circle was not built by the Druids; this Iron Age priestly cult flourished in Britain from around 250 BC, more than 1,000 years after Stonehenge was completed.



An impression of the completed prehistoric monument

Avenue

Built by the Beaker people, this dirt path forms a ceremonial approach to the site.

RECONSTRUCTION OF STONEHENGE

This illustration shows what Stonehenge probably looked like about 4,000 years ago. The stones remaining today create a strong impression of how incredible the original site would have been to see.

Heel Stone

A large sarsen stone quarried in the Marlborough Downs stands at the entrance to the site. It casts a long shadow straight to the heart of the inner circle on midsummer's day.

Slaughter Stone

Named by 17th-century antiquarians who believed Stonehenge to be a place of human sacrifice, this was in fact one of a pair of stones that formed a doorway.

Outer Bank

Dug around 3000 BC, this is the oldest part of the site.

PREHISTORIC WILTSHIRE

Ringing the horizon around Stonehenge are scores of circular barrows, or burial mounds, where ruling class members were honored with burial dose to the temple site. Ceremonial bronze weapons, jewelry, and other finds excavated around Stonehenge can be seen in the museums at Salisbury and Devizes.



KEY DATES 3000-1000 BC 1648 Stonehenge is The site is recognized On New Year's eve, two The British government Stonehenge is added to UNESCO's World constructed in as a prehistoric of the Sarcen Circle prohibits visitors from three phases. religious base. stones fall down. walking within the Heritage Site list. stone circle.

BUILDING OF STONEHENGE

Stonehenge's scale is astonishing given that the only tools available were made of stone, wood, and bone. The labor involved in quarrying, transporting, and erecting the huge stones was such that its builders must have been able to command vast numbers of people. One method is explained here.



A sarsen stone was moved on rollers and levered down into a waiting pit.



With levers supported by timber packing, the stone was gradually raised by 200 men.



Alternate ends of the top stone, or lintel, were levered up.



The lintel was supported by a timber platform.



The lintel was then levered sideways onto the upright stones.

Bluestone Circle

Erected around 2000 BC out of some 80 slabs quarried in Wales, it was never completed.

Horseshoe of Sarsen Trilithons

The pit around the base was packed tightly with

stones and chalk.

There were originally five trilithons (three stones) within the Sarcen and Bluestone circles, each comprising two upright sarcen (hard sandstone) stones topped by a horizontal lintel.



Horseshoe of Bluestones

These stones are thought to have been transported from Wales on a combination of sledges and rafts.





A Finds

From a burial mound near Stonehenge, these prehistoric finds are now part of Devizes museum's exceptional collection.

Winter Solstice ¥

There are many lunar and solar alignments. The inner horseshoe faces the winter solstice sunrise.





Restoration of Stonehenge >

Formal excavation and restoration work on the site only began during the 20th century.

▼ The Prehistoric Site

This was possibly a ceremonial area for fertility, birth, and death rituals. Evidence of burials and cremations exists nearby and inside the circle.





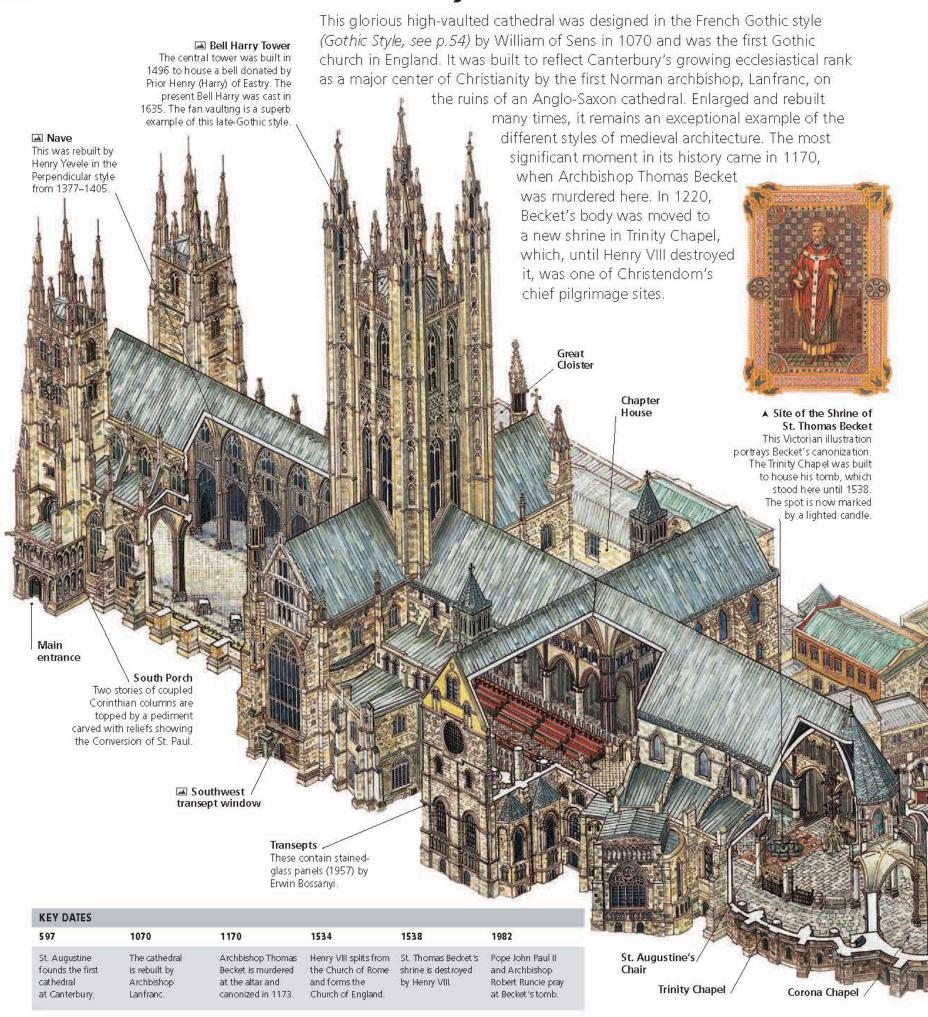
▲ Stonehenge as it is today

The ruins of Stonehenge reflect the grand structure that existed 4,000 years ago. Only half of the original stones remain, due to natural weathering and human destruction.





Canterbury Cathedral



NORTH

NETHERLAN

BELGIUM

- Edinburgh

GREAT

THE CANTERBURY TALES

Considered to be the first great English poet, Geoffrey Chaucer (c. 1345-1400) is chiefly remembered for The Canterbury Tales, a boisterous and witty saga about a group of pilgrims who travel from London to Becket's shrine. The pilgrims represent a cross-section of 14th-century English society and the tales are one of the most entertaining works of early English literature.



ST. AUGUSTINE

In 597, Pope Gregory the Great sent Augustine on a mission to convert the English to Christianity. Augustine founded a church on the present-day site of Canterbury Cathedral and became its first archbishop.

Bronze of Jesus on the main entrance to the cathedral precinct >

Southwest Transept Window >

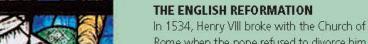
The cathedral's unique collection of stained glass gives a precious glimpse into medieval beliefs and practices. This depiction of the 1,000-year-old Methuselah is a detail from the southwest transept window.



Nave v

At 328 ft (100 m), the nave makes Canterbury Cathedral Europe's longest medieval church. In 1984, parts of an Anglo-Saxon cathedral were found beneath the nave





Rome when the pope refused to divorce him from Catherine of Aragon. The Archbishop of Canterbury, Thomas Cranmer, was made to do so instead. The Church of England was created, with Henry as its supreme head and the Archbishop of Canterbury its ecclesiastical quide. The Book of Common Prayer, compiled by Cranmer, became the cornerstone of the Church of England.

THE BLACK PRINCE

Edward, Prince of Wales (1330-76), known as "The Black Prince," gained popularity as leader of the victorious English army at the Battle of Crécy in 1346. He again emerged triumphant in 1356, at the Battle of Poitiers, when the French king, John the Good, was captured and brought to Canterbury Cathedral to worship at St. Thomas's tomb. As heir to the throne, Edward wanted to be buried in the crypt, but it was thought appropriate that this hero be laid to rest alongside the tomb of St. Thomas in the Trinity Chapel. The copper effigy on the Black Prince's Tomb is one of the most impressive in the cathedral. The Black Prince was outlived by his father, Edward III, but his son was crowned Richard II in 1377 at the age of ten.



Black Prince's Tomb A This copper effigy is on the tomb of Edward, Prince of Wales, who died in 1376.





IRELAND London CANTERBURY FRANCE ST. THOMAS BECKET

ATLANTIC

OCEAN

When Archbishop Theobold died in 1161, King Henry II saw the opportunity to increase his power over the Church by consecrating his faithful adviser, Thomas Becket, as the Archbishop of Canterbury—the most prominent ecclesiastical role in the kingdom. The king mistakenly believed that this would allow him to exert pressure on the Church. Becket's loyalty shifted and the struggle between Church and monarch for ultimate control of the realm culminated in the murder of Becket on December 29, 1170, by four knights attempting to gain the king's favor. People flocked to mourn him and, three days later, a series of miracles took place that were attributed to Becket. After Becket's canonization in 1173, Canterbury Cathedral became a major center of pilgrimage.



PETER PAUL RUBENS (1577-1640)

Rubens had apprenticeships with prominent Antwerp artists from an early age and was inspired to visit Italy in 1600 to study and copy the work of the Italian Renaissance masters. On returning to Antwerp in 1608, Rubens' reputation earned him an appointment as court painter to the governors of the Low Countries, the Archduke Albert and his wife, the Infanta Isabella. He became the most renowned Baroque painter in Europe, combining Flemish realism with the Classical imagery of Italian Renaissance art. After 1626, he was assigned diplomatic missions and nominated to the courts of Charles I in England, Marie de' Medici in France and Felipe IV in Spain. In 1630, having helped to conclude a treaty between England and Spain, he was knighted by Charles I for his peacemaking efforts. In his later years, Rubens focused once more on his painting.

RUBENS IN ANTWERP

On his return to Antwerp in 1608, Rubens was swamped by commissions from the nobility, Church, and state. He painted pictures for church altarpieces, etched, engraved, designed tapestries, and planned entire pageants. His well-run studio, modeled on those in Italy, was able to meet the demand and under his guidance, a school of superior artists flourished.

RUBENS' HOUSE DESIGN

Rubens' sojourn in Italy (1600-08) influenced his views on architecture as well as painting. Rubens' House was embellished to reflect his love of Italian Renaissance forms, incorporating Classical arches and sculpture (Renaissance Style, see p. 131). His style boldly contrasted with the architectural traditions of the day and bears witness to his voracious creativity. It was here that he received prominent quests throughout his career. The house is entered as Rubens intended: through the main gate, which leads to an inner courtyard that creates an imposing impression of the surrounding features. The opulent Baroque Portico (Baroque Style, see p.80) between the courtyard and the Formal Gardens was designed by the artist himself. The renovations completed in 1946 were based on the artist's original sketches.

Rubens' House, Antwerp

Peter Paul Rubens' home and studio for the last 30 years of his life, from 1610 to 1640, is found on Wapper Square in Antwerp. The city bought the premises just before World War II, but the house had fallen into disrepair, and what can be seen today is the result of careful restoration. Rubens' House (Rubenshuis) is divided into two sections and offers a fascinating insight into how the artist lived and worked. To the left of the entrance are the narrow rooms of the artist's living quarters, equipped with period furniture. Behind this part of the house is the kunstkamer, or art gallery, where Rubens exhibited both his own and other artists' work, and entertained his friends and wealthy patrons such as the Archduke Albert and the Infanta Isabella. To the right of the entrance lies the main studio, a spacious salon where Rubens worked on—and showed—his paintings.



This art gallery contains a series of painted sketches by Rubens. At the far end is a semicircular dome, modeled on Rome's Pantheon, displaying a number of marble busts.



Statue of Neptune in the courtyard

≺ Bedroom

RELIGIOUS WORKS

Rubens was a fervent Roman Catholic, prompting magnificent religious and allegorical masterpieces. Several of these can be seen in Antwerp, including the beautiful ceiling of the Jesuit church of St. Ignatius and a triptych in the Cathedral of Our Ladv.



∢ Rubens' Studio

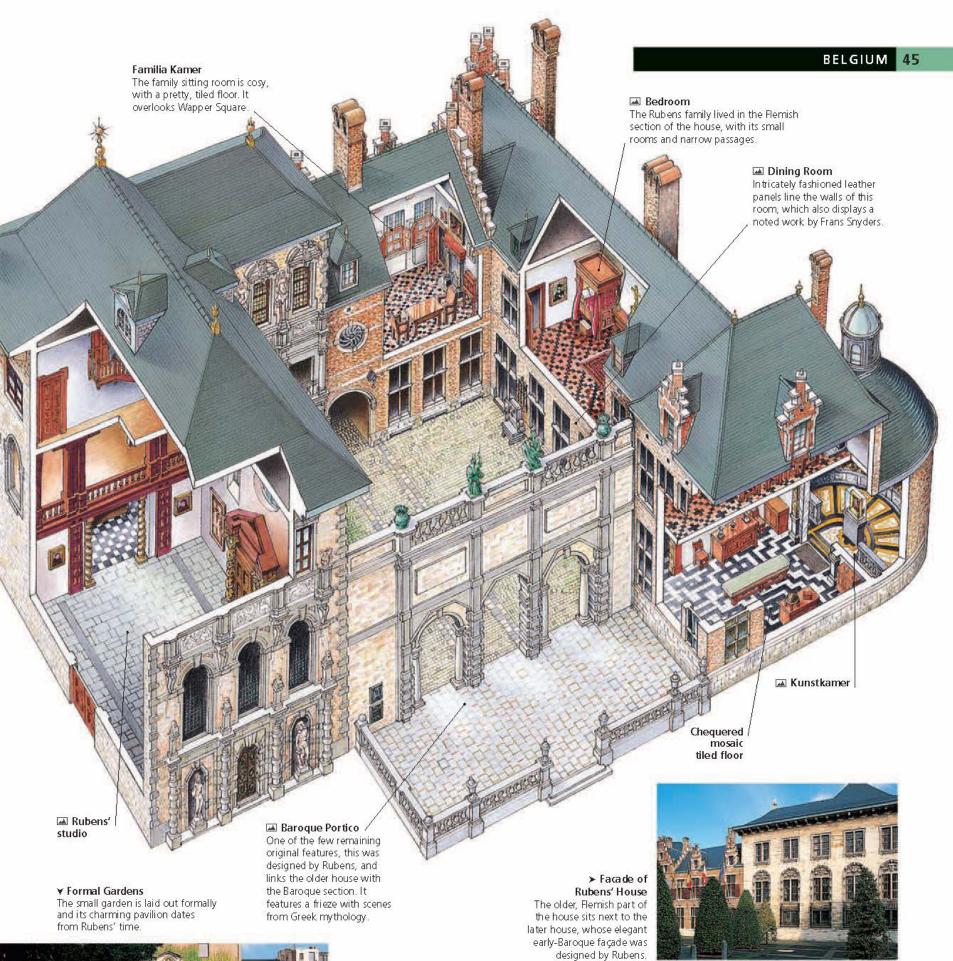
It is estimated that Rubens produced some 2,500 paintings in this large, highceilinged room. In order to meet this huge number of commissions, Rubens often sketched a work before passing it on to be completed by other artists employed in the studio.

▼ Dining Room

Baroque Portico Y









KEY DATES 1610 1614 1640 Rubens buys a house Rubens' studio is After

Rubens buys a house on Wapper Square, Antwerp, and remodels it in Italian style.

enlarged to satisfy the growing demand for his work: After Rubens' death, his second wife rents out the house to a riding school.

Rubens' House undergoes various renovations, and then becomes neglected.

1700s

Rubens' House is bought and renovated by the city of Antwerp. It opens to the public in 1946.

1937



THE HOUSE OF ORANGE-NASSAU

The marriage of Hendrik III of Nassau-Breda and Claudia of Chalon-Orange established the House of Orange-Nassau in 1515. Since that time, the family has played a central role in the political life of the Netherlands. The House of Orange is also important in British history. In 1677, William III of Orange married his first cousin, the English princess Mary Stuart. William and Mary became king and gueen of England in 1689 when Mary's father, James II, went into exile in France, and the couple ruled as joint monarchs.

HET LOO PALACE INTERIOR

The Orange-Nassau family continued to use Het Loo Palace as a royal summer house until 1975. The palace is now a museum, and painstaking restoration has re-created its 17th-century appearance. The interior, which is sumptuously decorated with rich materials, is laid out symmetrically, with the royal apartments located to the east and west of the Great Hall. The wings of the palace contain exhibitions of court costumes, along with documents, paintings, silver, and china belonging to the House of Orange-Nassau over three centuries.

THE GARDENS AND FOUNTAINS

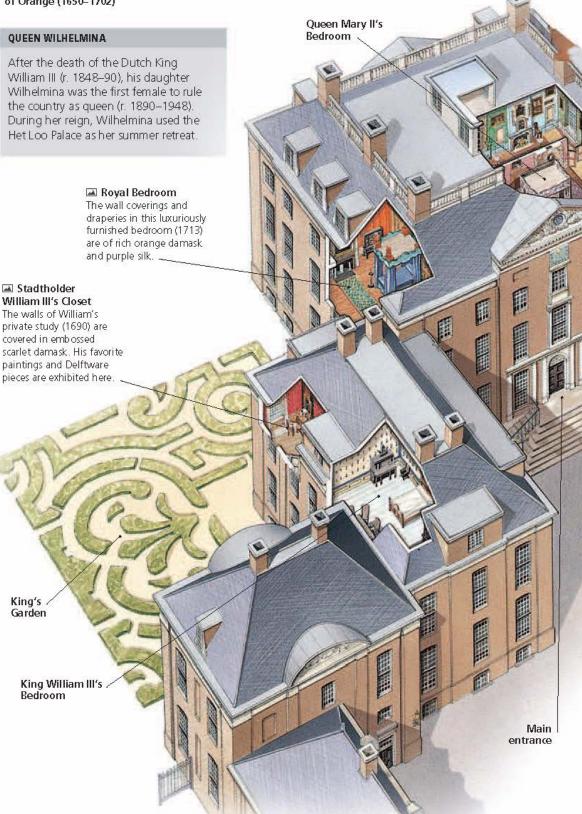
In 1686, the Formal Gardens surrounding the palace were laid out and soon became celebrated. The designer was Daniel Marot (1661-1752), who added a host of small details such as wrought-iron railings and garden urns. The gardens, which include the Queen's Garden and King's Garden, were designed to be strictly geometrical They were decorated with formal flower beds and embellished with fountains, borders, topiary and cascades. Statues were placed throughout. Today, the King's Garden features dipped box trees and pyramidshaped juniper trees. At the center stands an octagonal white marble basin with a spouting triton and gilt sea dragons. The slightly raised Upper Garden is home to the impressive King's Fountain, which is fed by a natural spring and operates 24 hours a day. It is a classic, eye-catching feature in a royal garden.

Het Loo Palace, Apeldoorn



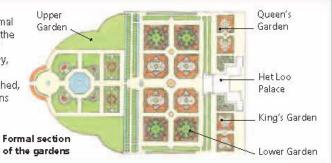
Engraving of William III of Orange (1650-1702)

Stadtholder William III, the future king of England, built the magnificent Het Loo Palace, regarded as the "Versailles of the Netherlands," as a royal hunting lodge in the 17th century. Generations of the House of Orange used the lodge as a summer palace. The main architect was Jacob Roman (1640–1716); the interior decoration and garden design were the responsibility of Daniel Marot. The building's Classical façade (Classical Style, see p. 137) belies the opulence of its lavish interior; extensive restoration work was completed on both in 1984.



THE FORMAL GARDENS

Old prints, records, and plans were used as the guidelines for re-creating Het Loo's formal gardens, which lie in the vast acres behind the palace. Grass was planted over the original walled and knot gardens in the 18th century, and this was cleared in 1975. By 1983, the intricate floral patterns had been reestablished, replanting had begun, the Classical fountains had been renovated and the water supply fully restored. The garden reflects the late 17th century belief that art and nature should operate in harmony.





Old Dining Queen's

Garden

STABLES AND COACH HOUSE

Vintage cars, carriages, and sleighs, some of which are still used by the Dutch royal family, are on display in Het Loo's stable block and coach house, near the main entrance. One of the best exhibits in the stable block is a 1925 Bentley, nicknamed Minerva, which was owned by Prince Hendrik, husband of Queen Wilhelmina. The coach house has a state coach, a state chariot, and sports, shooting, and service carriages from the first half of the 19th century to the beginning of the 20th.



▲ Formal Gardens

The gardens combine plants, statuary, and fountains in Classical style. The Fountain of the Celestial Sphere (above) stands in the Lower Garden.

¥ Coat of Arms The heraldic bearings (1690) of William and Mary.









Royal Bedroom ¥







East Wing

The Chancery Museum, which houses one of the world's largest collections of international orders, decorations, and courtdress, is found here.

> In 1984, six layers of paint were removed from the marbled walls of this 1686 room. They are now hung with tapestries depicting scenes from Ovid's poems.

KEY DATES 1684-6

Building of the Het King William III Loo Palace for Prince commissions new building works on William III and Princess Mary. the palace.

1691-4

Library

Picture gallery

> 1814 Het Loo Palace becomes the property

of the Dutch state.

Restoration of the house and garden is completed.

1984



GOTHIC ORNAMENTATION

Like all Gothic churches, Amiens Cathedral is richly decorated. Sculpture served to detract attention from structural features, making a virtue out of a necessity, as with grotesque gargoyles that disguise waterspouts, or natural forms decorating columns. Even where the carvings would not be seen at close hand, they were still produced with tremendous skill and care. Amiens' **choir stalls** alone are decorated with more than 4,000 wooden carvings of figures, many representing local trades of the day, residents of Amiens and biblical figures.

VIOLLET-LE-DUC

The renowned architect and theorist Eugène Emmanuel Viollet-le-Duc (1814–79) worked on the restoration of the cathedral in the 1850s. Trained in both architecture and medieval archeology, he was a leading figure in France's Commission for Historical Monuments, which undertook early restoration work on many architectural landmarks, including Notre-Dame in Paris. Today, he is best known for his encyclopedic writings on French architecture and design, especially the *Analytical Dictionary of French Architecture from the 11th–16th Centuries* (1854–68).

BUILDING AMIENS CATHEDRAL

The cathedral was designed by the French architect Robert de Luzarches, and inspired by the Gothic cathedral at Reims, France. Work began in 1220 and by 1236, the façade, Rose Window, and portals were complete. By this stage, the architect Thomas de Cormont had taken over from de Luzarches, who had died prematurely in about 1222. De Cormont directed the building of the choir and apse. The cathedral was finished by 1270 and this speed of execution perhaps explains the building's coherence and purity of style. Research has shown that the figures on the beautiful west portal would originally have been brightly painted. Modern laser technology has enabled experts to assess the original coloring of the sculptures, and a light show is put on periodically to illuminate the portal, re-creating how it would have looked over 700 years ago.

Amiens Cathedral



A Weeping Angel
Sculpted by Nicolas Blasset in
1628, this sentimental statue in
the ambulatory became a popular
image during World War I.

A masterpiece of engineering and Gothic architecture (Gothic Style, see p.54) carried to a bold extreme, Amiens' Notre-Dame Cathedral is also the largest cathedral in France. Building work started around 1220 and took just 50 years, financed by profits from the cultivation of woad, a plant valued for its blue dye. Built to house the head of St. John the Baptist brought back from the Crusades, which is still on display, the cathedral became a magnet for pilgrims. After restoration by the architect Viollet-le-Duc in the mid-19th century, and miraculously surviving two world wars, the cathedral is famous for its wealth of statues and reliefs.

1220	1279	1849	1981	
1220	1279	1049	1901	
Bishop Evrard de Fouilly begins work on the foundations of the cathedral.	The relics of St. Firmin and St. Ulphe are presented, attended by the kings of France and England.	Restoration of the cathedral takes place under the direction of the architect Viollet-le-Duc.	Amiens Cathedral joins the list of UNESCO World Heritage Sites.	

∢ Rose Window



≺ Choir Screens

Vivid scenes from the lives of St. Firmin and St. John, carved in the 15th–16th centuries, adorn the walkway.



▲ Towers
Two towers of unequal height frame the cathedral's west front. The south tower was completed in 1366, the north in 1402. The spire was replaced twice, in 1627 and 1887.

≺ Choir Stalls



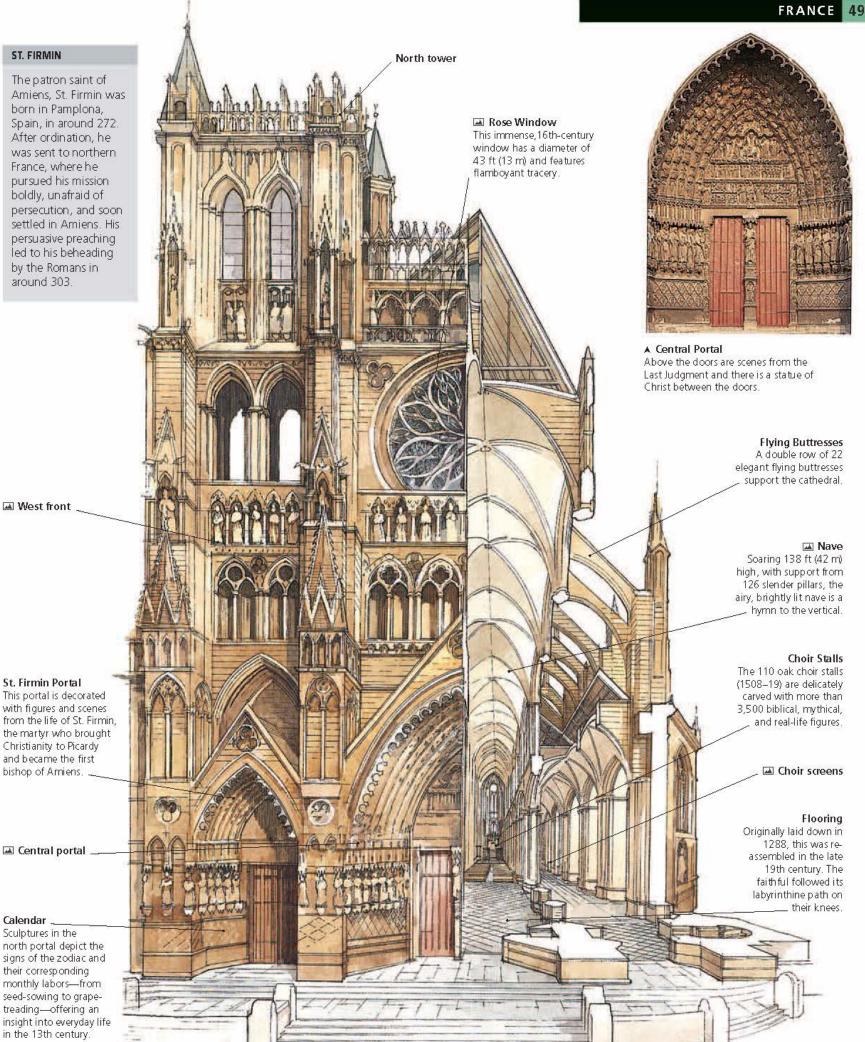


West Front

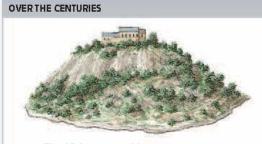
The King's Gallery, a row of 22 colossal statues representing the kings of France, spans the west front. They are also thought to symbolize the kings of Judah.

< Nave





Mont-St-Michel



The 10th-century abbeyRichard I, Duke of Normandy, founded this great Benedictine abbey in 966.

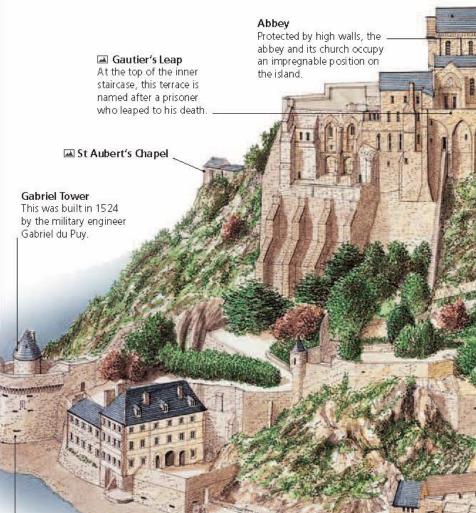


The 11th-century abbey
The Romanesque church was built
between 1017 and 1144 (Romanesque
Style, see p. 122).



The 18th-century abbey
The number of monks slowly dwindled, and in 1790 the abbey was disbanded and turned into a political prison.

Shrouded by mist and encircled by sea, the enchanting silhouette of Mont-St-Michel soars proudly above glistening sands. Now linked to the mainland by a causeway, the island of Mont-Tombe (Tomb on the Hill) stands at the mouth of the Couesnon River, crowned by an abbey that almost doubles its height. This superb example of a fortified abbey ranks as one of the most significant sites of pilgrimage in Christendom. Lying strategically on the frontier between Brittany and Normandy, Mont-St-Michel grew from a humble 8th-century oratory to become a Benedictine monastery of great influence. Pilgrims known as miquelots journeyed from afar to honor the cult of St. Michael, and the monastery was a renowned center of medieval learning. After the French Revolution, the abbey became a prison. It is now a national monument that draws one million visitors a year.



Entrance

THE FORTIFICATIONS

Mont-St-Michel became a symbol of French national identity when its defensive 15th-century walls protected it against fierce cannon attacks in the Hundred Years' War. The whole of Normandy was conquered by the English, except this well-fortified island.

KEY DATES								
708	966	1446-1521	1863-74	1877-9	1895-7	1922	1979	
St. Aubert builds an oratory dedicated to St. Michael on Mont-Tombe.	Duke Richard I founds the Benedictine abbey.	A flamboyant Gothic choir replaces the Romanesque one in the abbey church.	The prison closes and the abbey is declared a national monument.	A causeway is built, linking Mont-St-Michel and mainland France.	The belfry, spire, and statue of St. Michael are added.	Religious services resume in the abbey church.	Mont-St-Michel is added to UNESCO's World Heritage Site list.	

Ramparts

(1337 - 1453)

Fortified walls with imposing

attacks by the English during the Hundred Years' War

towers were built to withstand

GERMANY

WITZERLAND

MEDITERRANEAN

ITALY

MONT-ST-MICHEL

Bordeaux

For centuries, the Mont was recognized as a

which the Archangel Michael commanded t

hat a chapel be built in his honor on Mont-St-

inspiring one of Christianity's most spectacular

holy sites. The faithful came to appeal for the

Although nothing remains of Bishop Aubert's

became an important place of pilgrimage.

original oratory, it is thought to have been situated on the west side of the rock, on the ground where St. Aubert's Chapel now stands.

archangel's protection and Mont-St-Michel soon

Michel. In response, Bishop Aubert had an

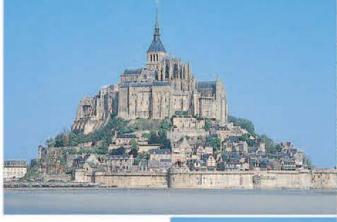
oratory erected on the summit, his belief

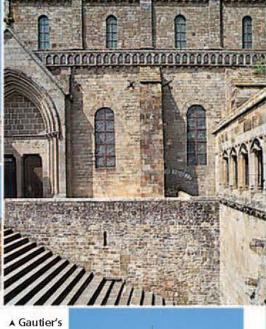
sacred site of devotion, where both Druids and Romans worshiped. In 708, Aubert, Bishop of the nearby town of Avranches, had a vision in

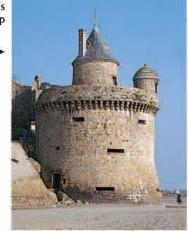
BAY OF BISCAY

BISHOP AUBERT

FRANCE





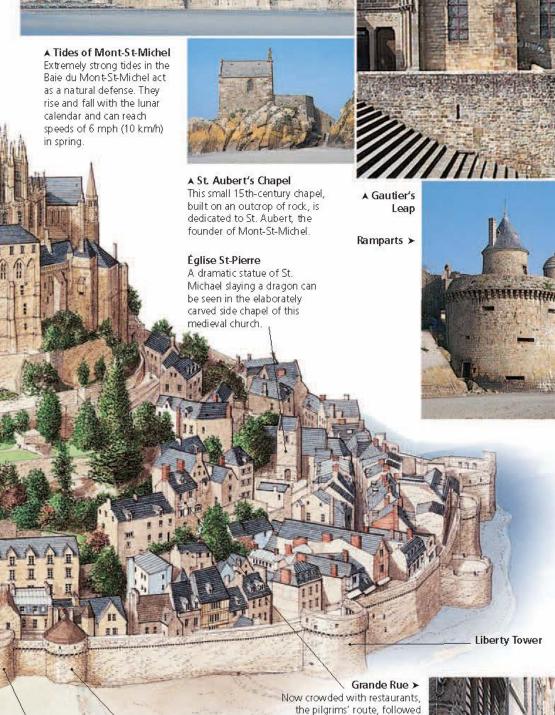


THE ABBEY

The three levels of the abbey reflect the monastic hierarchy. The monks lived at the highest level, in the enclosed world of the church, the refectory and the elegant columns of the cloister. In 1776, three bays in the church's nave were pulled down to create the West Terrace, which has fine views of the coastline. Monks ate in the long, narrow refectory, which is flooded with light through its tall windows. On the middle level, the abbot entertained his noble guests. Soldiers and pilgrims further down the social scale were received at the lowest level of the abbey, in the almonry. The three-story complex of La Merveille (The Miracle), added to the north side in the early 13th century, is a Gothic masterpiece (Gothic Style, see p.54).

THE MONT PRISON

The monastery first served as a prison in the 15th century under the reign of Louis XI, whose political opponents were kept here in famously severe conditions. During the French Revolution, the monks were dismissed and the abbey once again functioned as a penitentiary, with aristocrats, priests, and political adversaries imprisoned within its walls. Prominent figures, including writers such as Chateaubriand and Victor Hugo, protested against this practice, but Mont-St-Michel remained a state prison for 73 years until October 20, 1863, when a decree was passed returning the abbey to divine worship



Abbey Cloister ➤ Inside the abbey is a 13th-century Anglo-Norman covered gallery. It surrounds an open-air garden where the monks

King's Tower

Arcade Tower

This provided lodgings

for the abbot's soldiers.



since the 12th century, climbs up past Église St-Pierre to the

gates of the abbey.







THE HUNCHBACK OF NOTRE-DAME

The novel Notre-Dame de Paris (1831), published in English as The Hunchback of Notre-Dame, was written by the Romantic French novelist Victor Hugo (1802–85). The hunchback of the title is the bell-ringer Quasimodo, ward of the cathedral, and the novel tells the story of his doomed love for a dancer, Esmeralda. Notre-Dame features strongly in the work and Hugo used his book to rail against its neglect, declaring that medieval cathedrals were "books in stone" and should be treasured. The novel aroused widespread interest in the restoration of the cathedral.

THE INTERIOR

Notre-Dame's interior grandeur is strikingly apparent in its high-vaulted central nave. This is bisected by a huge **transept**, at either end of which is a medieval rose window, 43 ft (13 m) in diameter. Works by famous sculptors adorn the cathedral. Among them are Jean Ravy's choir screen carvings, Nicolas Coustou's *Pietà*, which stands on a gilded base sculpted by François Girardon, and Antoine Coysevox's statue of Louis XIV. The 13th-century stained-glass **North Rose Window** depicts the Virgin encircled by figures from the Old Testament. A 14th-century statue of the Virgin and Child stands against the transept's southeast pillar.

GOTHIC STYLE

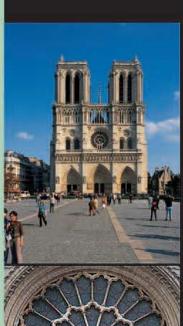
The Gothic style emerged in France around the end of the 12th century with the Basilica of St-Denis (1137-1281), north of Paris, where most of the French monarchs are buried. The pointed arch, the ribbed vault, tracery, and the rose window were all used to great effect there and were important features of the Gothic style. The desire to build taller, ever more magnificent, light-filled ecclesiastical buildings grew. Another key feature emerged with the use of flying buttresses, which provided support for high walls and helped redistribute their weight. With its soaring interior and stainedglass filtered light from the large rose windows, Notre-Dame Cathedral is one of the bestknown and most impressive examples of the Gothic style. Across Europe in many countries, architects took to the style with enthusiasm.

Notre-Dame, Paris



South Rose Window

No other building is so strongly associated with the history of Paris as the cathedral of Notre-Dame. It stands majestically on the lle de la Cité, in the heart of the city. When the first stone was laid in 1163, it marked the start of 170 years of toil by armies of medieval architects and craftsmen. Since then, a succession of coronations and royal marriages has taken place within its walls. Built on the site of a Roman temple, the cathedral is a masterpiece of Gothic architecture. When it was completed, in about 1330, it was 430 ft (130 m) long and featured flying buttresses, a large transept, a deep choir, and 228-ft (69-m) high towers.



≺ West Façade and Portals
Two huge towers, three main
doors, superb statuary, a
central rose window and
an openwork gallery are
impressive features of the
cathedral's west façade.

▼ South Rose Window

This window depicts the

reds and blues.

Virgin in a medallion of rich





≺ Galerie des Chimères
The cathedral's famous 19thcentury gargoyles (chimères) hide
behind a large upper gallery
between the towers.



✓ Flying Buttresses Jean Ravy's spectacular flying buttresses at the east end of the cathedral have a span of 50 ft (15 m).

King's Gallery / This is a line of statues

of the 28 kings of

Judah and Israel

CORONATIONS

Notre-Dame has seen a number of coronations in its long history. Henry VI of England was crowned here in 1430, and Mary Stuart became queen of France after her marriage to François II in the same year. In 1804, Napoleon became emperor of France, crowning first himself, and then his wife Josephine, here.

South Tower The cathedral's famous Emmanuel bell is housed in this tower.

Spire A Designed by Viollet-le-Duc, this soars to a height of 295 ft (90 m).



▲ "May" Paintings



★ View of the Interior From the main entrance, the highvaulted central nave, choir, and high altar give an impression of great height and grandeur.

Flying buttress

Transept This was built at the start of Philippe-Auguste's reign, in the 13th century.

"May" Paintings These religious paintings, by Charles Le Brun and Le Sueur, among others, were presented by the Paris guilds every May 1 from 1630 to 1707.

South Rose Window The south façade window has 84 panes of glass divided into two circles that radiate out from a central depiction of Christ

Treasury The cathedral's holy artifacts, which include ancient manuscripts and reliquaries, can be viewed here.

KEY DATES

the foundation stone.

1163 1793 1845 Work begins when Revolutionaries loot the Pope Alexander III lays cathedral and rename

it the Temple of Reason.

Architect Viollet-le-Duc undertakes restoration work on the cathedral.

Notre-Dame becomes a UNESCO World Heritage Site.

Arc de Triomphe, Paris

After his greatest victory, at the Battle of Austerlitz in 1805, Napoleon promised his men, "You shall go home beneath triumphal arches." The first stone of what was to become the world's most famous and largest triumphal arch was laid the following year. However, disruptions to architect Jean Chalgrin's plans, and the demise of Napoleonic power, delayed the completion of this monumental building until 1836. Standing 164 ft (50 m) high, the arch is now the customary starting point for victory celebrations and parades.



Triumph of Napoleon



◆ Departure of the Volunteers in 1792 François Rude's work shows French citizens leaving to defend the nation. This patriotic relief is commonly known as "La Marseillaise."

THE BATTLE OF VERDUN

On the day this World War I battle started in 1916, the sword carried by the figure representing France broke off from Departure of the Volunteers in 1792. The relief was covered up so that the public would not interpret it as a sign of misfortune.



▼ General Marceau's Funeral 1795, only to be killed when





Running around the arch is a frieze executed by Rude, Brun, Jacquet, Laitié, Caillouette, and Seurre the Elder. The east façade shows the departure of the French armies for new campaigns. The west side shows their victorious return.

Battle of Aboukir

A bas-relief by Seurre the Elder depicts a scene of Napoleon's victory over the Turkish army in 1799.



1810. Victory, History, and Fame surround Napoleon.



Tomb of the Unknown Soldier Y A symbolic "eternal flame" burns over the grave of this French

KEY DATES 1806 1815 1836

Napoleon commissions Jean Chalgrin to build the triumphal arch.

With Napoleon's downfall, the construction of the arch ceases.

The arch is finally completed: 15 years after Napoleon's death.

The body of French poet and novelist Victor Hugo is laid in state beneath the arch.

✓ Place Charles de Gaulle

shaped configuration.

Twelve avenues radiate from the

triumphal arch at the center of this busy road junction. Some bear the names of important French military leaders. Baron Haussman, in charge of urban planning under Napoleon III, created the star-

> An unknown World War I soldier is buried at the center of the arch.

1920



NAPOLEON'S NUPTIAL PARADE Viewing P The top of

Napoleon divorced Josephine in 1809 because she was unable to bear him children. A diplomatic marriage was arranged in 1810 with Marie-Louise, daughter of the Austrian emperor. Napoleon wanted to pass through the Arc on the way to the wedding at the Louvre, but work had barely begun. So Chalgrin built a full-scale model on the site for the couple to pass beneath.

Napoleon with his new wife

East façade

Viewing Platform

The top of the arch, reached via an elevator or by climbing the 284 steps, affords one of the best views in Paris.

Thirty Shields

Just below the top of the arch

is a row of 30 shields, each of

which carries the name of a victorious Napoleonic battle.

Battle of Austerlitz

Another battle victory is depicted on a frieze on the north side of the arch. Napoleon's army is seen breaking up the ice on Lake Satschan—a tactic that led to the drowning of thousands of enemy troops.

■ General

Marceau's Funeral

Officers' names

The names of 558 French generals of the Imperial Army are engraved on the inner face of the arch.

Entrance to the museum

■ Departure of the Volunteers in 1792



CARVED RELIEFS

The west façade of the arch is adorned with colossal reliefs. The Resistance of the French in 1814 is depicted on the right. Here, a soldier defends his family and is encouraged by the embodiment of the future. The Peace of 1815, on the left, shows a man, protected by Minerva, Goddess of Wisdom, returning his sword to its scabbard. These reliefs are by the sculptor Antoine Étex. Above them are two bas-reliefs. The left frame depicts the Capture of Alexandria (1798), as General Kléber urges his troops forward. The right frame shows the Passage of the Bridge of Arcola (1796), with Napoleon advancing against the Austrians. The south façade details the Battle of Jemmapes (1792).

THE BATTLE OF AUSTERLITZ

Napoleon commissioned the arch in 1806 to honor his soldiers, who had achieved a masterful victory at the Battle of Austerlitz in 1805. Heavily outnumbered, Napoleon led the Allies to believe that his army was weak and successfully lured them into a vulnerable position. Fierce battle ensued, forcing the Allies to retreat across frozen Lake Satschan in Austria. It is believed that Napoleon's army fired on the ice in an attempt to drown the fleeing enemy. The armies of Russia and Austria, members of the Third Coalition alliance against France in the Napoleonic Wars, were destroyed.

NEO-CLASSICAL STYLE

The power, might and learning of Western Europe was represented in the 18th and the first half of the 19th centuries by architecture inspired by that of ancient Greece and Rome. The traditional principles of the Classical style were extended and adapted as the culture of the ancient world was increasingly revealed, documented and disseminated. This new Classicism was seen as an ideal match for the ambitions of the powerful European states. whether autocratic or witnessing the birth pangs of democracy, and also of the young United States of America. The Neo-Classical style is defined by elaborate details and a refined sense of proportion: hallmarks of ancient Classical architecture that could be adapted for every conceivable purpose.



RESIDENTS OF VERSAILLES

In 1682, Louis XIV declared Versailles the official seat of the French government and court. During his reign, life in this sumptuous Baroque palace (Baroque Style, see p. 80) was ordered by rigid etiquette. Under Louis XV (1715–74), it became increasingly opulent with the help of Madame de Pompadour, the king's mistress, who set a taste for elegance that soon spread across Europe. In 1789, Louis XVI was forced to leave Versailles when it was invaded by a Revolutionary Parisian mob. The palace was subsequently looted and left until the reign of Louis-Philippe (1830–48), who converted part of it into a museum of French history.

THE GARDENS

André Le Nôtre (1613–1700), France's greatest landscape gardener, created magnificent château gardens. His superb architectural orchestration, Classical vision and sense of symmetry are seen in the sweeping vistas of Versailles, his greatest triumph. The gardens are styled into regular patterns of flowerbeds and box hedges, paths and groves, ornate pools of water, and fountains. Geometric paths and shrubberies are features of the formal gardens. The **Petit Trianon**, a small château built as a retreat for Louis XV, is found in the gardens.

INSIDE THE CHÂTEAU

The lavish main apartments are on the first floor of the vast château complex. Around the Marble Courtyard are the private apartments of the king and queen. On the garden side are the state apartments, where official court life took place. These were richly decorated by Charles Le Brun with colored marble, stones, and wood carvings, murals, velvet, silver and gilded furniture. Starting with the Salon d'Hercule, each state room is dedicated to an Olympian deity. The Salon d'Apollon, dedicated to the god Apollo, was Louis XIV's throne room. The climax is the Hall of Mirrors, stretching 230 ft (70 m) along the west façade. Great state occasions were held in this room, where 17 mirrors face tall, arched windows. Another highlight is the Chapelle Royale, with the first floor reserved for the royal family and the ground floor for the court.

Château de Versailles

A magnificent palace with sumptuous interiors and splendid gardens, Versailles represents the glory of Louis XIV's reign. Starting in 1668 with his father's modest hunting lodge, the king commissioned the largest palace in Europe, with 700 rooms, 67 staircases, and 1,800 acres (730 ha) of landscaped parkland. Architect Louis Le Vau built a series of wings that expanded into an enlarged courtyard. They were decorated with marble busts, antique trophies, and gilded roofs. Jules Hardouin-Mansart took over in 1678 and added the two immense north and south wings. He also designed the chapel, which was finished in 1710. Charles le Brun planned the interiors and André Le Nôtre redesigned the gardens.



Gold crest from the Petit Trianon



< South Wing

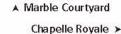
The wing's original apartments for great nobles were replaced in 1837 by Louis-Philippe's museum of French history.



Louis XIV statue

Erected by Louis-Philippe in 1837, this bronze equestrian statue of the Sun King stands where a gilded gateway once marked the beginning of the Royal Courtyard.

Clock ▼ Hercules and Mars flank the clock overlooking the Marble Courtyard.

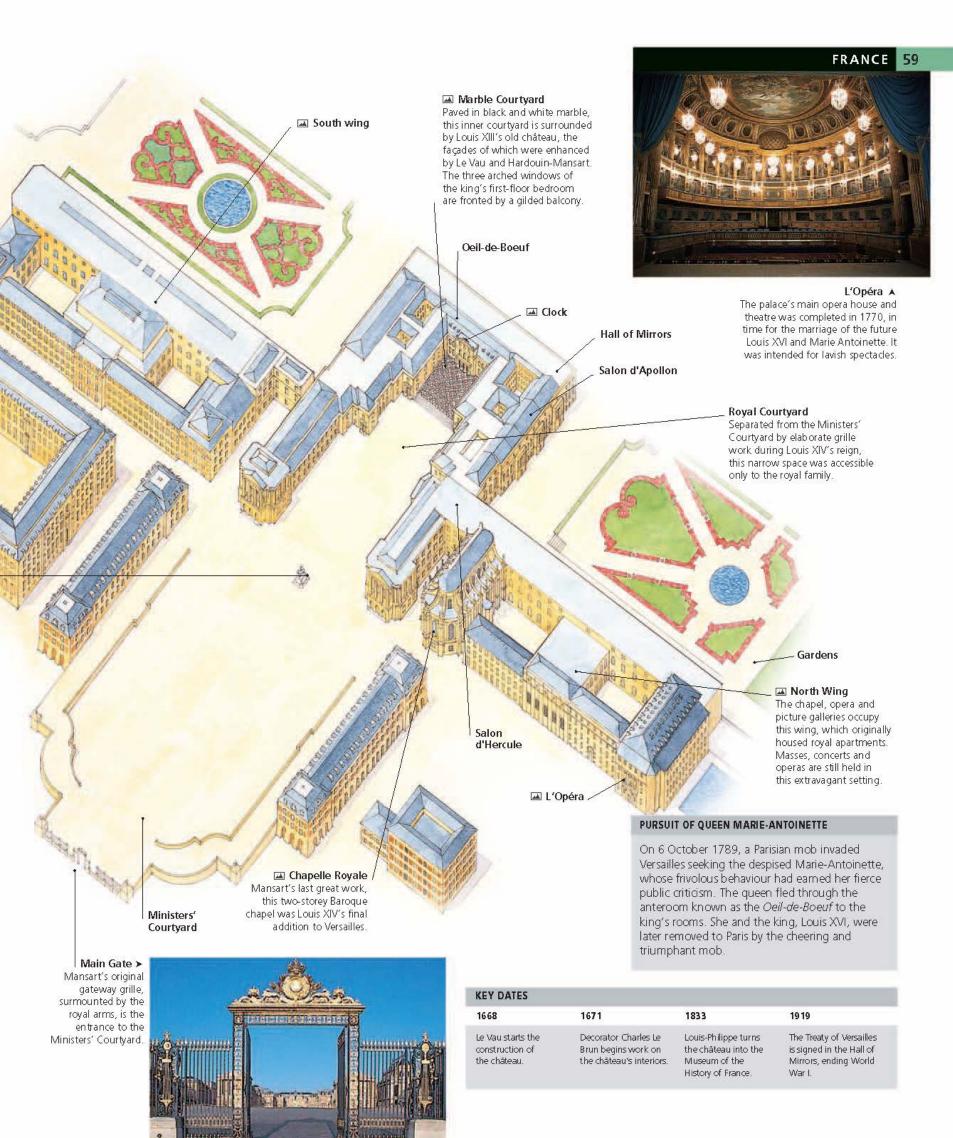






¥ North Wing







THE ROYAL PORTAL

Following the devastating fire of 1194, a decision was taken to retain the magnificent, still-standing west entrance (Royal Portal), which was a survivor of the earlier Romanesque church (Romanesque Style, see p.122). Although this created a variation in architectural styles, it was an astute decision that resulted in the survival of some of the finest sculpture of the early Middle Ages. The Royal Portal, carved between 1145 and 1155, is the most ornamental of the cathedral's three entrances. The features of the statues in the portal are lengthened in Romanesque style and depict figures from the Old Testament. The portal represents the glory of Christ.

THE STAINED GLASS OF CHARTRES

Donated by aristocracy, the merchant brotherhoods and royalty between 1210 and 1240, the cathedral's glorious array of stained-glass windows is world-renowned. More than 150 windows illustrate biblical stories and daily life in the 13th century. Each window is divided into panels, which are usually read from left to right and bottom to top (Earth to heaven). The bottom panel of the Blue Virgin Window depicts Christ's conversion of water into wine. During both world wars, the windows were dismantled piece by piece and removed for safety. There is an ongoing program, begun in the 1970s, to restore the windows.

GOTHIC STATUARY

There are around 4,000 statues at Chartres Cathedral. Fortunately, having remained virtually untouched since being sculpted in the 13th century, they are in a remarkable state of preservation. Incredible examples, tracing the evolution of Gothic sculpture, are clustered around the north and south portals. The north porch is devoted to representations of such Old Testament figures as Joseph, Solomon, the Queen of Sheba, Isaiah, and Jeremiah. Scenes from Christ's childhood and the Creation of the World are also illustrated. The South Porch portrays the Last Judgment, and episodes in the lives of the saints. The hundreds of figures decorating both portals were originally painted in bright colors.

Chartres Cathedral



Part of the Vendôme Chapel window

One of the greatest examples of French Gothic architecture (Gothic Style, see p.54), Chartres Cathedral was built around the remains of an earlier Romanesque church which had been partly destroyed by fire. The result is a blend of styles, with the original north and south towers, south steeple, west portal, and crypt enhanced by lofty Gothic additions. Peasant and lord alike helped to rebuild the church in just 25 years. Few alterations were made after 1250, and fortunately Chartres was unscathed by the Wars of Religion and the French Revolution.



✓ Royal Portal The central tympanum of the Royal Portal (1145-55) shows Christ in Majesty.

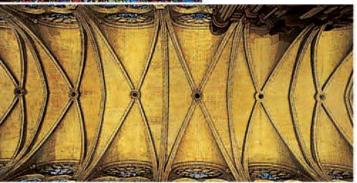


≺ Stained-Glass Windows

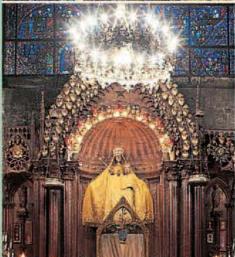
Vaulted Ceiling



The north tower's steeple dates from the start of the 16th century. Flamboyant Gothic in style, it contrasts sharply with the solemnity of its Romanesque counterpart on the south tower.

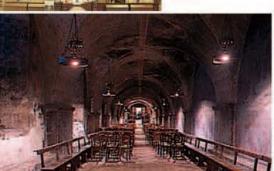




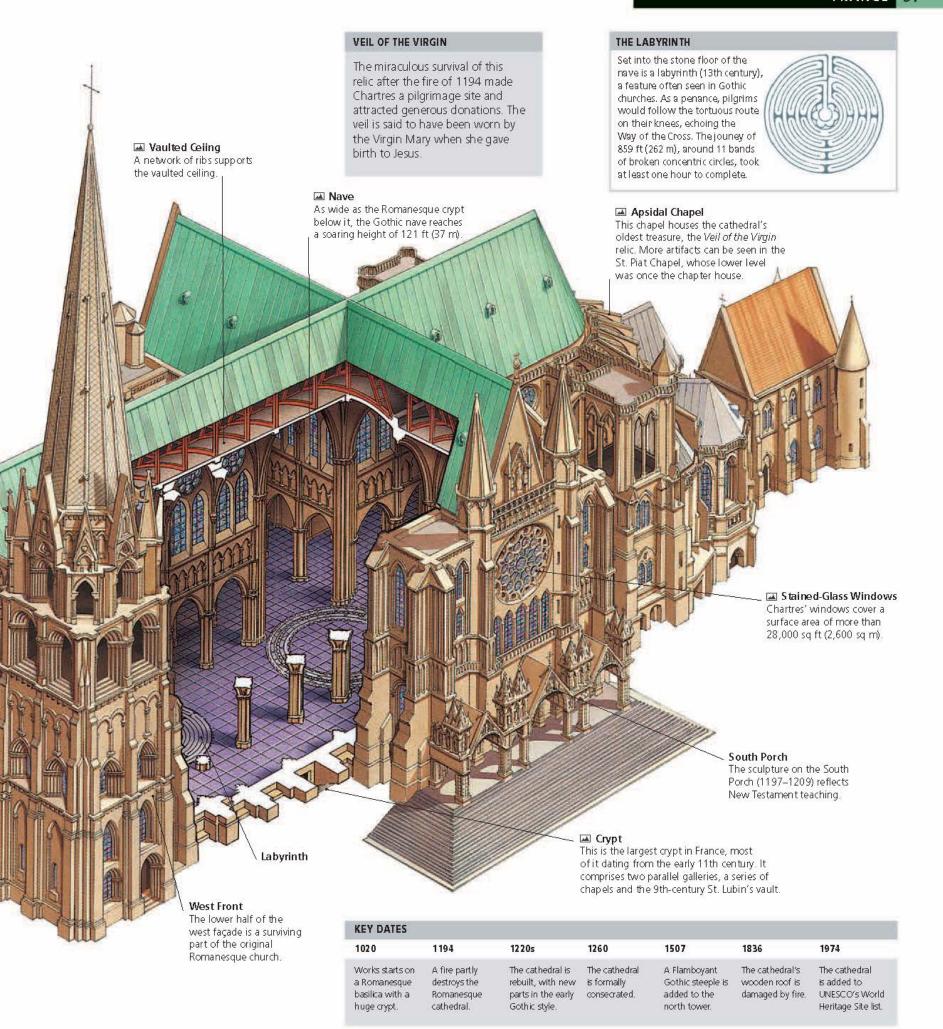




∢Apsidal Chapel



< Crypt



THE FIRST FIREWORKS

After the death of her husband, King Henri II, in 1559, Catherine de' Medici moved into Chenonceau and staged lavish balls in her goal to surpass his mistress, Diane de Poitiers. At a feast for her son François II and his wife Mary Stuart in 1560, the celebrations moved into the formal gardens, where guests were treated to the first fireworks display in France.



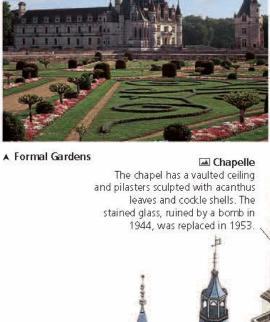
Château de Chenonceau

Cabinet Vert

Stretching romantically across the Cher River, this French Renaissance château (Renaissance Style, see p.131) was the residence of queens and royal mistresses, including Catherine de' Medici and Diane de Poitiers. Transformed over the centuries from a modest manor and water mill into a castle designed solely for pleasure, it is surrounded by elegant formal gardens and wooded grounds. The interior rooms have been restored to their original style, and a small waxwork museum illustrates the building's history. The site also includes a stable with a miniature train ride down the lovely tree-lined drive, and several restaurants.



A The Three Graces Painted by Charles-André Van Loo (1705-65), The Three Graces depicts the pretty Mailly-Nesle sisters, all royal mistresses.



Tour des Marques This tower is the only surviving part of the 15th-century castle of the Marques family

Louise de Lorraine's Room After the assassination of her husband, King Henri III, in 1589, Queen Louise had this room painted black and decorated with monograms, tears, and knots in white

KEY DATES

To formal gardens

The medieval Chenonceau is acquired by Thomas Bohier. His wife, Catherine Briconnet, supervises the rebuilding of the château.

The château is seized from the Bohier family by King François I for unpaid debts to the Crown.

Diane de Poitiers, King Henri II's lifelong mistress, moves into the château and lays out the gardens.

On the death of King Henri II, Catherine de' Medici takes the building from Diane de Poitiers.

The castle is spared in the French Revolution thanks to its liberal owner, Madame Dupin.

1789

The Menier family buys Chenonceau and still owns it today

Grand Galerie >

Chenonceau's Florentine-style Grande Galerie stretches across the Cher River for 200 ft (60 m).



Chapelle >







Cabinet Vert ➤ The walls of Catherine de' Medici's study were originally covered with green velvet.



CHÂTEAU CHENONCEAU GUIDE

Grande Galerie

Catherine de' Medici added

this elegant gallery to the bridge

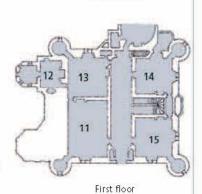
designed by Philibert de l'Orme

in 1556-9 for Diane de Poitiers.

The main living area was in the turreted pavilion in the middle of the Cher River. Four principal rooms open off the Vestibule on the ground floor: the Salle des Gardes and the Chambre de Diane de Poitiers, both hung with 16th-century tapestries; the Chambre de François I, with a Van Loo painting; and the Salon Louis XIV. Lavish rooms on the first floor include the Chambre de Catherine de' Medici and the Chambre de Vendōme.



- 1 Vestibule
- 2 Salle des Gardes
- 3 Chapelle
- 4 Terrasse
- 5 Librairie de Catherine de' Medici
- 6 Cabinet Vert
- 7 Chambre de Diane de Poitiers
- 8 Grande Galerie
- 9 Chambre de François I
- 10 Salon Louis XIV
- 11 Chambre des Cinq Reines
- 12 Cabinet des Estampes
- 13 Chambre de Catherine de' Medici
- 14 Chambre de Vendôme
- 15 Chambre de Gabrielle d'Estrées



Ground floor

Tapestries A

As was the practice in the 16th century, Chenonceau is hung with Flemish tapestries that both warm and decorate its wellfurnished rooms.



THE FORMAL GARDENS

As the mistress of Henri II, Diane de Poitiers wanted a surrounding fit for a king and set about creating her grand, **formal gardens** along the banks of the Cher River. Divided into four triangles and protected from flooding by elevated stone terraces, they were planted with an extensive selection of flowers, vegetables, and fruit trees. When Catherine de' Medici arrived at Chenonceau, she created her own garden from a program devised by Bernard Palissy in his *Drawings of a Delectable Garden* (1563). Today, more than 4,000 flowers are planted in the gardens each year.

THE CREATION OF CHENONCEAU

Catherine Briçonnet, wife of the royal chamberlain, was the first of many women who added her feminine touches to Chenonceau. During his reign (1547–59), King Henri gave the castle to his mistress, Diane de Poitiers, who went on to dramatically transform it. She redecorated its interiors, built a bridge over the Cher River and constructed a formal garden. When the king died, his wife, Catherine de' Medici, reclaimed the château from Diane and set about erasing her presence. She redesigned the castle and built the Grande Galerie on the bridge above the Cher. Over the centuries, other women have shaped Chenonceau's destiny and design, including Louise de Lorraine, who was bequeathed the castle in 1589, the enlightened Louise Dupin, friend of the writers Voltaire and Rousseau, in the 18th century, and Madame Pelouze in the 19th century.

THE INTERIOR

The elegant Grande Galerie, designed by Catherine de' Medici to hold her festivities, dominates Chenonceau. Lit by 18 windows stretching from an exposed-joists ceiling, its enamelled tiled floor leads into royal bedrooms, including Diane de Poitiers', covered in Flemish tapestries. The small tiles in the first floor hall are stamped with fleur de lys crossed by a dagger. Marble medallions brought from Italy by Catherine de' Medici hang above the doors, including those of her bedroom, which is full of 16th-century furnishings and tapestries depicting biblical scenes.

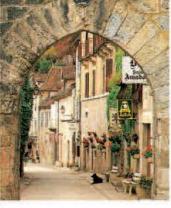




▲ Stations of the Cross

Pilgrims encounter the Cross of Jerusalem and 14 stations marking Jesus' journey to the cross on their way up the hillside to the château.





A Rocamadour Town

Now a pedestrian precinct, the town's main street is lined with souvenir shops to tempt the throngs of pilgrims and visitors.

✓ Grand Stairway

Rocamadour

Pilgrims have flocked to Rocamadour since the discovery in 1166 of an ancient grave and sepulcher containing an undecayed body, said to be that of the early Christian hermit St. Amadour. King Louis IX, St. Bernard, and St. Dominic were among many who visited the site as a spate of miracles were heralded, it is claimed, by the bell above the Black Virgin and Child in the Chapel of Notre-Dame. Although the town suffered with the decline of pilgrimages in the 17th and 18th centuries, it was heavily restored in the 19th century. Still a holy shrine, as well as a popular tourist destination, the site above the Alzou valley is phenomenal. The best views of the town can be had from the hamlet of L'Hospitalet.

THE SPORTELL

Crafted in either lead, bronze, tin, silver or gold, the Sportell was a medallion bearing an image of the Virgin Mary and Child that was carried by pilgrims who had visited Rocamadour. During the Middle Ages, it was often worn as an amulet, sewn onto a hat or coat, and served as a pass to cross certain war-torn regions.



Rocamadour is at its most breathtaking in the sunlight of early morning: the cluster of medieval houses, towers, and battlements seems to sprout from the base of the cliff.



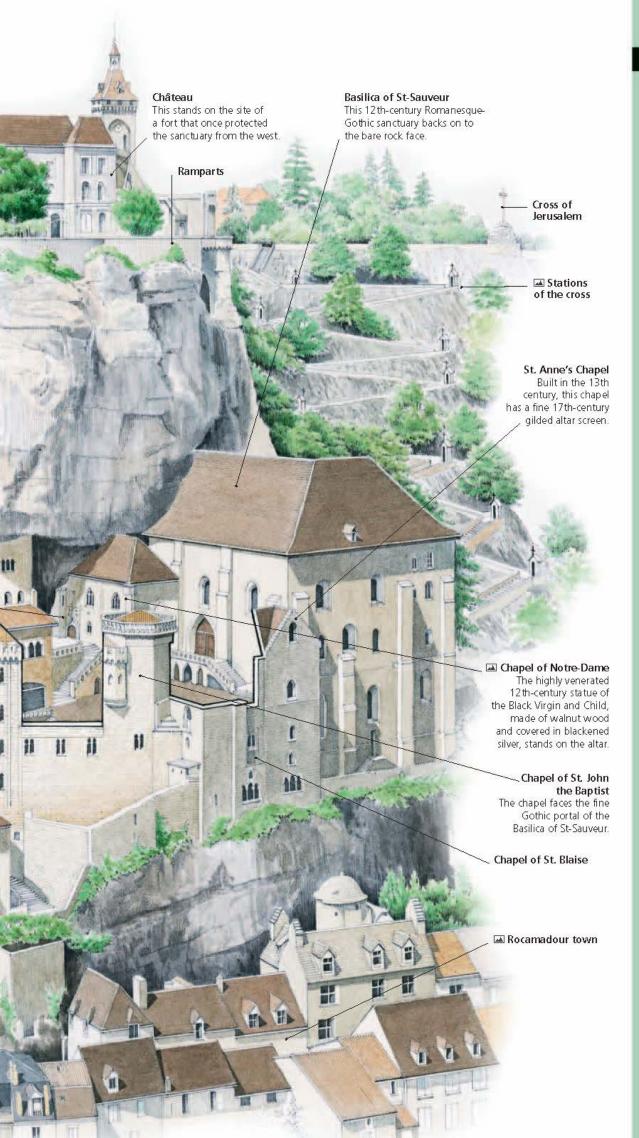
A Chapel of Notre-Dame **KEY DATES** 1166 1172 1193-1317 1479 1562 1858-72 The preserved body More than 30,000 The Chapel of Notre-The Book of Miracles Rocamadour's chapels Rocamadour's is drafted, with the pilgrims flock to of Zaccheus, later Dame (Miracles are plundered by restoration is renamed St. Amadour. testimonies of miracles supervised by abbot the religious site. Chapel) is constructed Protestants. is discovered. granted to pilgrims. Jean-Baptiste Chevalt.

Chapel of St. Michael Well-preserved 12thcentury frescoes can be seen on the exterior of this chapel, which is sheltered by an overhanging rock.

Tomb of St. Amadour __ The body of the hermit from whom the town took its name (Rock of Amadour) was once held in this small sanctuary beneath the basilica.



A Grand Stairway
Pilgrims would climb this
broad flight of steps on
their knees as they said
their rosaries. The stairway
leads to the church square
on the next level, around
which seven main pilgrim
chapels are grouped.





ST. AMADOUR

There are various stories about the life of St. Amadour. One legend claims that he was Zaccheus of Jericho, who knew and conversed with Jesus during his time on Earth. His wife, St. Veronica, gave Jesus a doth to wipe his face during his journey to Calvary. After Jesus' crucifixion, Zaccheus and his wife fled from Palestine to escape religious persecution. On their travels, the couple met St. Martial, Bishop of Limoges, in Aquitaine, France, who was preaching the Gospel. They continued to Rome, and while there they witnessed the martyrdoms of St. Peter and St. Paul. The death of his wife led Zaccheus back to France and the place later named after him, where he stayed until he died in AD 70

CHAPEL OF NOTRE-DAME

This Romanesque chapel (Romanesque Style, see p.122) was built in the 15th century close to the site where St. Amadour's body was found. Considered the holiest of Rocamadour's chapels, it houses the famous statue of the Black Virgin and Child. Pilgrims who heard about the statue flocked to the shrine, often climbing the Grand Stairway on their knees as they prayed for the forgiveness of their sins. A 9th-century bell hangs in the chapel's vault and is thought to ring when a mirade occurs. Saints and kings also made the journey to the chapel, including England's King Henry II. Legend says that he was cured of an illness when he prayed before the Black Virgin and Child.

ROCAMADOUR'S MUSEUM

The **Museum of Sacred Art** is housed in the Bishop's Palace, which was constructed by the abbots of Tulle in the 13th century. The museum was restored in 1996 and is dedicated to the French composer Francis Poulenc (1899–1963), who was inspired to compose *Litanies to the Black Virgin* after visiting Rocamadour. The museum's collection of statues, paintings, and religious artifacts has been assembled from different sites around Rocamadour. Particularly interesting is the 17th-century statue of the prophet Jonah, carved in wood, and the fine lanterns, vases, and chalices that are still used in various religious ceremonies at Rocamadour.



THE STATUE OF ROLAND

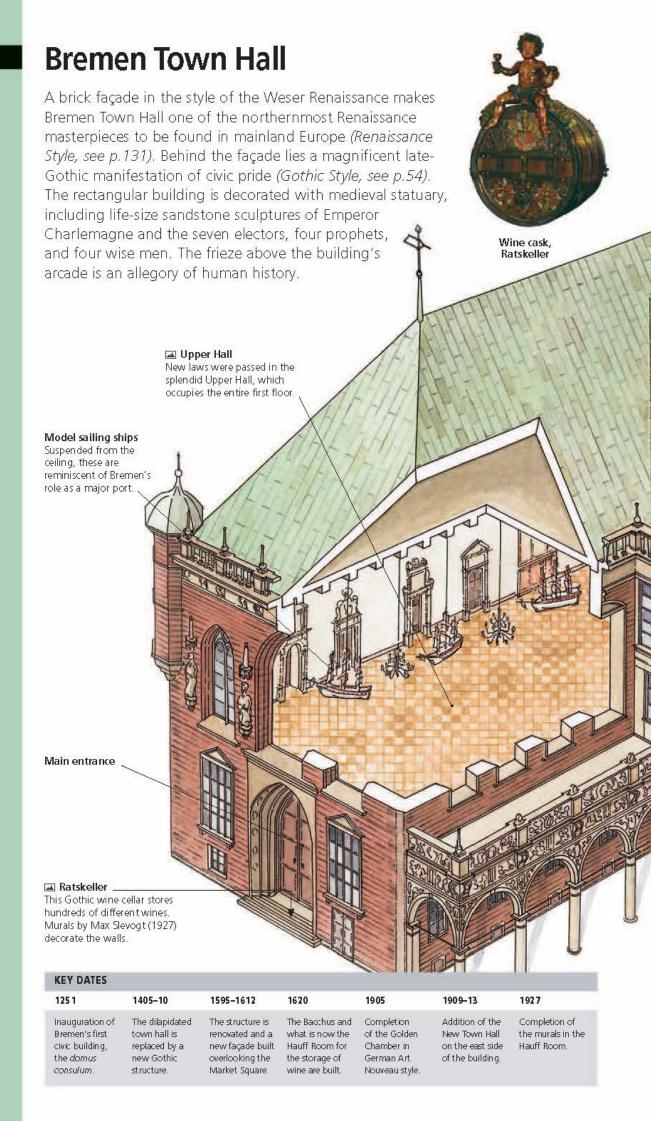
This 33-ft (10-m) high statue of Roland has been a fixture of Bremen's Market Square for some 600 years. A Christian knight and nephew of Charlemagne, the Holy Roman Emperor (r. 800-814), Roland symbolizes the town's independence. His gaze is directed toward the cathedral, the residence of the bishop, who often sought to restrict Bremen's autonomy. Roland's sword of justice symbolizes the judiciary's independence, and its engraved motto confirms the emperor's edict, conferring town rights on Bremen. The statue was carved in 1404 by a member of the Parléř family, a well-known clan of architects and sculptors. It was the prototype for 35 similar statues in other German towns.

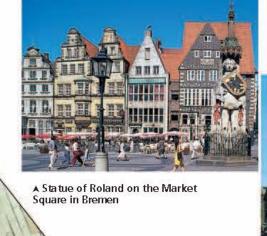
WESER RENAISSANCE

Bremen's Gothic Town Hall owes much of its splendor to its magnificent façade. Having been completely reworked by the architect Lüder von Bentheim in 1595-1612, this façade is considered an outstanding example of Weser Renaissance architecture, the predominant style throughout the Weser region of northern Germany between 1520 and 1630. Nobles who had toured Italy returned home inspired by the Renaissance architecture they had seen and attempted to replicate it in their own designs. The ornamental gables and frieze along the arcade are both typical of this style, as are the richly sculptured projecting oriels.

THE RATSKELLER

To the west side of the Town Hall is the entrance to the Ratskeller. One of the oldest wine cellars in Germany, it has been serving wine since 1405. Today, more than 650 wines can be sampled here, all of which are from German wine-growing regions and some of which are stored in decoratively carved wine casks. The Ratskeller's atmosphere has inspired many artists and writers. For example, its setting provided the basis for Wilhelm Hauff's book, Fantasies in the Bremer Ratskeller (1827), which later inspired the German Impressionist painter Max Slevogt to paint the humorous frescoes in the Hauff Room.





■ Gobelin Room





A Ornamental Gable

The original Gothic building was clad with a magnificent Weser Renaissance façade designed by Lüder von Bentheim in 1595-1612.



 ■ The Judgment of Solomon

The Judgment of Solomon >

The 16th-century mural of Solomon's court in the Upper Hall is a reference to the room's dual function as a council chamber and a courtroom.

Golden Chamber >



THE MUSICIANS OF BREMEN

On the northern side of the Town Hall is a bronze statue of the four animals—a donkey, dog, cat, and rooster—immortalized in the Grimm Brothers' fairy tale of The Musicians of Bremen. It was cast by Gerhard Marcks in 1951.



Upper Hall ➤



Golden Chamber

The lower room of the two-story Güldenkammer offers exquisite examples of Jugendstil (German Art Nouveau), created during a makeover by the artist Heinrich Vogeler (1872–1942) in 1905. The gilded leather wallpaper dates from the 17th century.

Fireplace Room ¥

Adjoining the Gobelin Room, the elegant Fireplace Room owes its name to a high, French marble fireplace





Gobelin Room >

This room derives its charm from a large, exquisitely wrought tapestry produced by the 17th-century Gobelin workshop in Paris.

Ornamental Gable

The architect Lüder von

Bentheim gave the Town

Hall façade a local touch by adding a decorative Flemish-

style stepped gable that is five stories high.

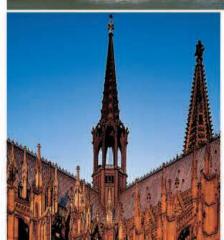




Cologne Cathedral

The history of Germany's greatest Gothic cathedral (Gothic Style, see p.54) is unusually long and complicated. The foundation stone of the present cathedral was laid on August 15, 1248, and the presbytery consecrated in 1322. The cathedral was built gradually until around 1520, but remained unfinished until the 19th century. The building was finally completed in 1842-80, according to the rediscovered, original Gothic designs. Once the world's tallest building, Cologne Cathedral still boasts the world's largest church façade.

✓ View of the cathedral from the Rhine River



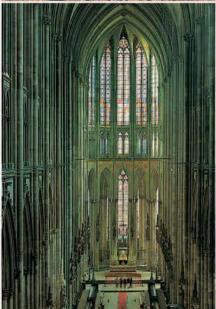
EARLIER CHURCHES

Several churches had come and gone on the site by the time the first cathedral was completed in 870. Today's larger Gothic cathedral became necessary because of the number of pilgrims wanting to see the Shrine of the Three Kings.

▼ Pinnacles

← Gothic Stalls

The massive oak stalls, built in 1308–11, were the largest that had ever been made in Germany.







∢ Mailänder Madonna This fine early-Gothic carving of the Milan Madonna and Child dates from around 1290. It is currently displayed in

< High Altar The Gothic altar slab, which

dates back to the consecration



This huge Romanesque reliquary

was made by Nikolaus von Verdun

in 1181-1220 to hold the relics of

the Three Kings. The relics, acquired

by the cathedral in the 12th century, put Cologne on the pilgrimage map.

the Marienkapelle.

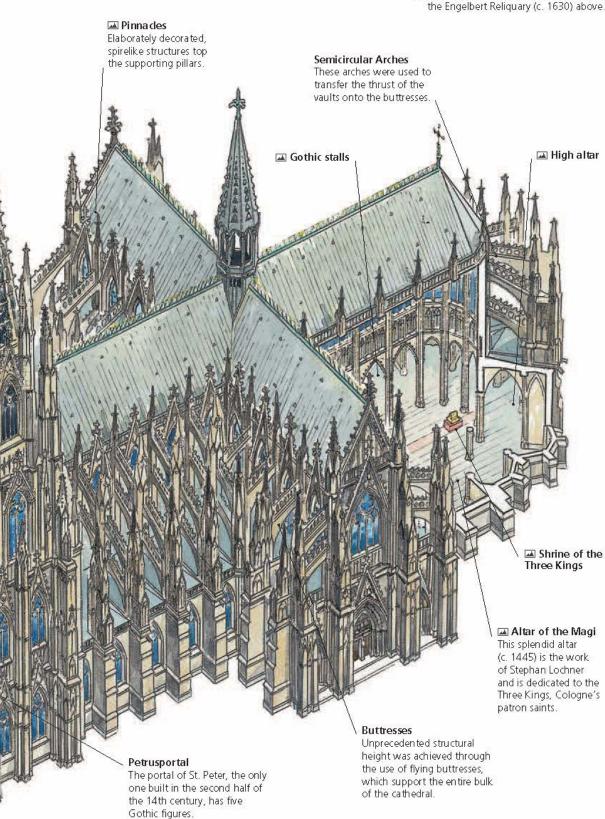
of the presbytery, depicts the Coronation of the Virgin Mary, flanked by the 12 Apostles. ▲ Cathedral Interior **KEY DATES** 1265 c. 1530 1794 1801 1842-80 1996 Work begins on a The outer walls Work on the cathedral French troops use The cathedral is Building work Cologne Cathedral Main new cathedral to of the choir and halts with the south the cathedral as a reconsecrated and the recommences and the becomes a UNESCO entrance house the relics of adjacent chapels tower 190 ft (58 m) warehouse and stables city's citizens demand cathedral is finished World Heritage Site. are completed. in height. during the French that it is completed. the Three Kings. according to the Revolutionary Wars. medieval plans.





▲ Treasury

Housed in the cathedral's 13th-century stone cellar vaults, the treasury contains a large collection of golden objects, including the Engelbert Religuary (c. 1630) above.





THE CATHEDRAL BELLS

The 3.4-ton bell cast in 1418 in honor of the Three Kings was tuned to the note B. It hung in a belfry adjacent to the cathedral, but in 1437 it was moved to the south tower. Eleven years later, it was joined by Europe's largest bell, the 10-ton *Pretiosa* (Precious One), tuned to G. When rung together, the bells produced a G-major chord. In 1449, the 4.3-ton *Speciosa* (Beautiful One) was added. It was tuned to A, so that Cologne Cathedral would be the first church to have its bells tuned to a melody rather than a chord. The first bell has since been replaced.

THE CHOIR

Around 30 years after the cathedral's foundation stone was laid, the pillars of the choir were decorated with early-Gothic statues of Christ, the Virgin Mary and the 12 Apostles. These larger-than-life figures are dad in splendid robes. Above them there is a choir of angels playing musical instruments, symbolizing the heavenly music played to celebrate the celestial coronation of the Virgin Mary. The coronation itself is depicted in the figures of Christ and Mary. A similar interpretation, dating from 1248, can be seen in the church of Sainte-Chapelle in Paris. There, too, 12 of the pillars supporting the building symbolize the 12 Apostles as the most important pillars of the Christian church.

SHRINE OF THE THREE KINGS

The Shrine of the Three Kings, the largest reliquary in the Western world, is located near the high altar. Studded with precious and semiprecious stones, this lidded sarcophagus is a masterpiece of medieval goldsmithery. Its sides are decorated with images of the prophets and Apostles, the adoration of the kings and the baptism of Christ. The rear features a portrait of Rainald von Dassel, archbishop of Cologne (1159-67). As chancellor to Emperor Barbarossa (r. 1152-90), the archbishop is said to have brought the mortal remains of the Three Kings from Milan to Cologne in 1164. On January 6 every year, the front of the shrine is opened to reveal the golden-crowned skulls of the kings.



TIEPOLO

Born in Venice, the Italian painter Giovanni Battista Tiepolo (1696-1770) is considered the last great master of Venetian art. He created numerous altarpieces and frescoes for churches, castles, palaces, and villas in Italy and Germany. Almost all the interior decoration of the Würzburg Residence was created by Tiepollo, including magnificent ceiling frescoes in the Imperial Hall and above the staircase, or Treppenhaus, completed from 1751 to 1753.

ROCOCO STYLE

The Residence is such a fine example of German Rococo that it had a style named after it: Würzburg Rococo. Typical of this style are the vast trompe-l'oeil painted ceilings and large, domed rooms. The term Rococo is derived from the French word rocaille, meaning "rock-work," a decorative trend for both interiors and façades featuring abstract, shell-like forms and curves. Trees, flowers, and Chinese scenes were among the most popular motifs. Stucco craftsmen and woodcarvers became as revered as architects and painters for the quality and splendor of their work.

THE PATRONS

Many of those involved in the building of the Würzburg Residence were members of the Schönborn family, a powerful 18th-century dynasty of princes and electors on the rivers Rhine, Maine, and Moselle. Among them was Johann Philipp von Schönborn, who became prince-bishop of Würzburg in 1719. He was succeeded by his brother, Friedrich Karl, one of the chief instigators of the Würzburg Residence project. The brothers engaged renowned architects and painters from all over Europe for what was to become a Gesamtkunstwerk—a unique synthesis of various branches of the arts into a total experience. The Residence was devastated by a fire during World War II and underwent a painstaking 27 million-dollar reconstruction program between 1950 and 1987. Today, 40 rooms are open to the public, with a splendid array of 18th-century furniture, frescoes, tapestries, and other treasures.

Würzburg Residence

A masterpiece of German Rococo, the Residence was commissioned by two prince-bishops, the brothers Johann Philipp Franz and Friedrich Karl von Schönborn, as an Episcopal palace. Its construction between 1720 and 1744 was supervised by several architects, including Johann Lukas von Hildebrandt and Maximilian von Welsch. However, the Residence is mainly associated with the name of Balthasar Neumann, the then young and unknown creator of its remarkable Baroque staircase (Baroque Style, see p.80).



Sculpture in the Residence garden



∢ Imperial Hall

FRESCO DETAILS

Tiepolo was not without a sense of humor: on the Treppenhaus fresco he included a portrait of the architect Balthasar Neumann dressed as an artillery officer and with his dog by his side.

▼ Venetian Room

This room is named after a tapestry depicting the Venetian Carnival. Further ornaments include decorative panels with paintings by Johann Thalhofer, a pupil of Rudolph Byss.





This low, vaulted hall, supported by slender marble columns, has Rococo stuccowork by Antonio Bossi dating from 1749. There is also a painting on the ceiling by Johan Zick, dating from 1750, depicting The Feast of the Gods and Diana Resting.

Hofkirche >



Treppenhaus The work of the Venetian artist Giovanni Battista Tiepolo, the largest fresco in the world adorns the vault of the staircase. It is an allegorical depiction of the four continents.

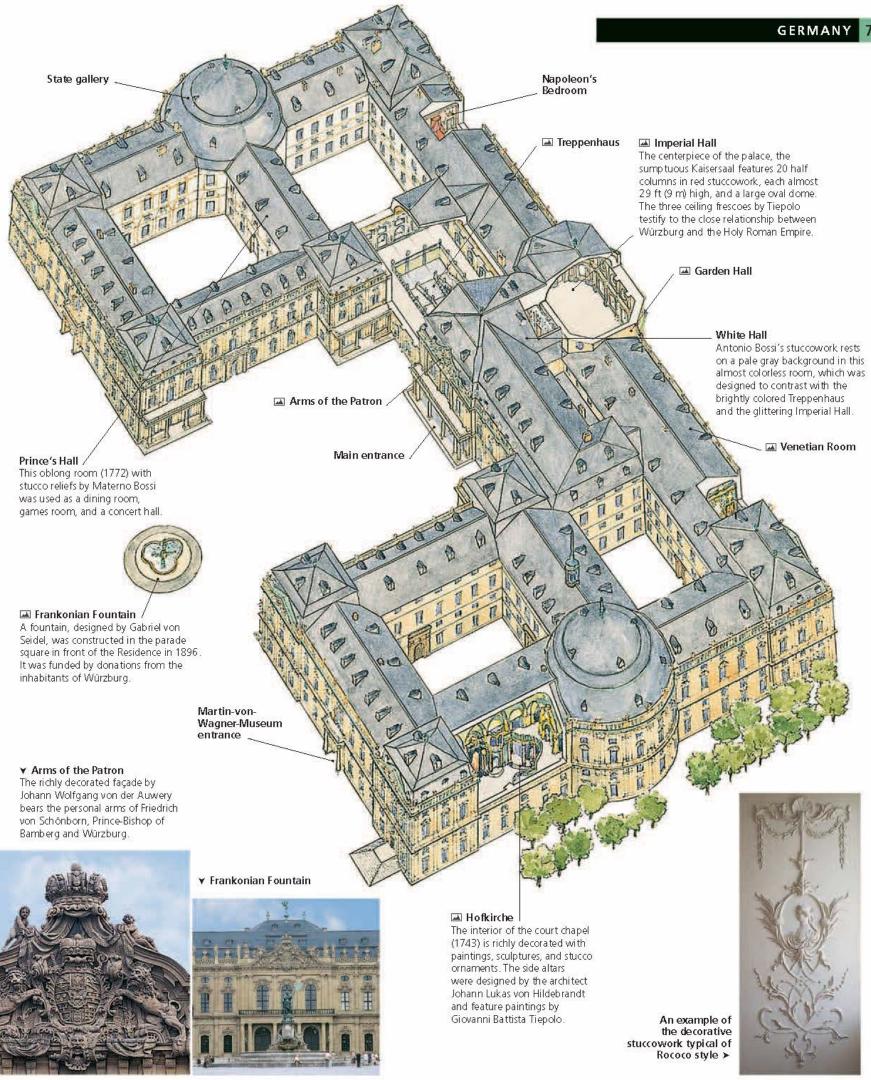




KEY	DATES	

1720-44 1732-92 1751-53 2003 1945 1981 Building of The Residence Decoration of the Ludovico Bossi The palace is The Residence The restoration the Würzburg garden is laid out damaged in a of Tiepolo's Residence with oversees the becomes a Residence. and landscaped. ceiling frescoes decorative bombing raid UNESCO World Treppenhaus by Tiepolo. stuccowork in during World Heritage Site. frescoes begins the stairwell. Warll







HEIDELBERG ROMANTICISM

Heidelberg is widely held to be Germany's most romantic city and Heidelberg Castle was a favorite target of early 19th-century revisionism, with poets such as Achim von Arnim, Clemens Brentano, Ludwig Görres, and Joseph von Eichendorff recasting it as the cradle of German Romanticism. The ruins came to symbolize the artistic, intellectual, and political return to Germany's national roots that the poets so much wanted to see. It was during this period that Count Charles de Graimberg acted to prevent further looting of stone from the site in an attempt to preserve the ruins. Even today, the sprawling castle complex provides an extraordinarily majestic scene Since being destroyed by the French in the 17th century, this once-important residence is regarded as Germany's most palatial ruin.

RUPRECHT III

One of the most important figures in the history of Heidelberg Castle was Elector Ruprecht III, a member of the Wittelsbach dynasty. Born in Amberg in 1352, Ruprecht became Elector of the Palatinate in 1398 and spearheaded a successful campaign to depose Wenceslas, the Holy Roman Emperor, in 1400. Ruprecht was elected emperor in his place, although his election was not universally recognized. He died in Oppenheim in 1410, having failed to restore the crown to its former glory.

STYLISTIC ACCRETIONS

Inside the Gothic-style **Ruprecht's Palace**, there are two models of the castle showing the various additions through the ages. In 1524, Ludwig V added a residential building known as Ludwig's Palace. The Glazed Palace (1549), which is named after its mirrored hall, symbolizes the architectural transition from Gothic to Renaissance style. **Ottheinrich's Palace** is a splendid example of German early-Renaissance architecture, while **Friedrich's Palace** has a typical late-Renaissance façade. This was followed by the **English Palace**. The jewel in the crown was undoubtedly the castle garden of Friedrich V (r. 1613–19), once described as the eighth wonder of the world.

Mid-1100s

Construction of

a castle begins

Palatine Conrad.

under Count

1400

Ruprecht III's

palace is built-

the first use of

the castle as a

royal residence

1556-9

Ottheinrich

Renaissance-

style palace.

builds his

1614-19

A garden is

commissioned

Friedrich V for

his wife

by Prince-Elector

1689-93

The castle is

destroyed in

the War of

the Palatine

Succession.

1742-64

Reconstruction

takes place but

several buildings

fire destroys

1810

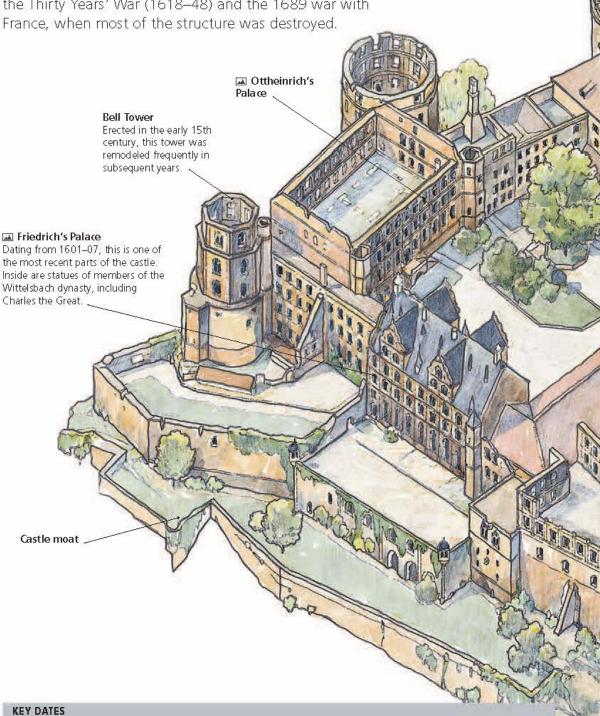
Attemptsare

made to preserve

the castle ruins.

Heidelberg Castle

Towering over the city, this majestic red sandstone structure is a vast residential complex that was built between the 12th and 17th centuries. Originally a supremely well-fortified Gothic castle (Gothic Style, see p.54), but now mostly in ruins, this was the seat of the House of Wittelsbach palatines. After remodeling in the 16th century, the castle became one of Germany's most beautiful Renaissance residences (Renaissance Style, see p.131). However, its splendor was extinguished during the Thirty Years' War (1618–48) and the 1689 war with France, when most of the structure was destroyed.



Ruprecht III's coat

of arms

Gunpowder Tower Built during the reign of the Elector Ruprecht, this 14th-century tower once formed part of the castle defenses. It was damaged by lightning in 1764, after which the townspeople



▲ Friedrich's Palace

This Gothic loggia features early Romanesque columns

taken from the palace of

Charlemagne in Ingelheim.

Gate Tower

Fountain Hall



▲ Ottheinrich's Palace

Main entrance

The German Pharmacy Museum is housed within the shell of this Renaissance building. It features Baroque and Rococo workshops and a traveling pharmacy.

> Ruprecht's Palace Built in around 1400 by a master-builder from Frankfurt, this is the oldest surviving part of the castle.



∢ Gunpowder Tower

▼ Ruprecht's Palace





▲ Panoramic View

Heidelberg Castle has survived as a picturesque ruin, and its imposing structure occupies a commanding position. From its terrace there is a beautiful view of the medieval Old Town of Heidelberg



English Palace >

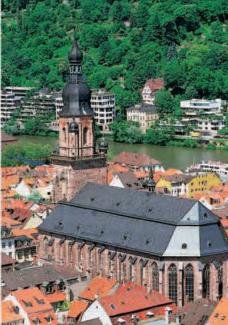


THE GIANT WINE CASK

To the left of Friedrich's Palace, a staircase leads to the cellars where a giant wine cask is stored. This symbol of the electors' love of good wine was built in 1750 and holds 48,620 gallons (221,000 liters). The wine was piped directly from the cask to the King's Hall.



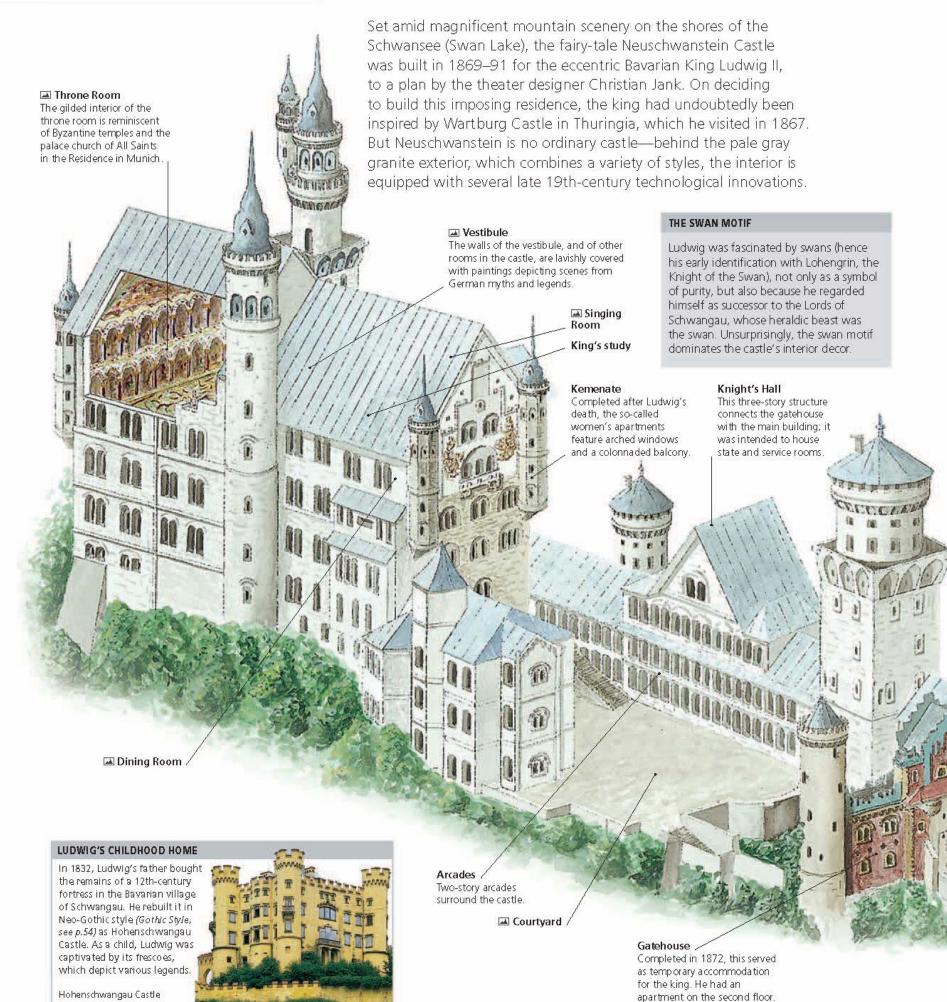
Heidelberg's Old Town.



English Palace

These imposing ruins in the castle complex are the remains of a 17th-century building that Friedrich V built for his wife, Elizabeth Stuart.

Neuschwanstein Castle



Castle Building ➤ Neuschwanstein is the archetypal fairy-tale castle. It has provided the inspiration for countless toy models, book illustrations, and movie sets.





Throne Room >

y Vestibule





▲ Courtyard The heart of t

The heart of the castle was supposed to have been a mighty 295-ft (90-m) high tower with a Gothic castle church. It was never built, but in 1988 its planned position was marked in white stone.

Dining Room ➤

Like many other rooms in the palace, the dining room includes fabulous pictures, intricately carved panels and beautifully decorated furniture, all bearing witness to the skill and artistry of 19th-century craftsmen.







▲ Singing Room

The Sängersaal was modeled on the singing room at Wartburg Castle in Eisenach.

Main

entrance



Ludwig makes known his plans to build a new castle.

The foundation stone is laid. The king hopes the work will take just three years.

1869

1873
The gatehouse is constructed; the king lives there for a number of years.

A ceremony marks the completion of all five floors. 1884 Ludwig occupies the castle but dies soon after in mysterious circumstances.

Seven weeks after Ludwig II's death, the castle is opened to visitors.

1886

The castle is completed, but many of the rooms are left bare.

1891



LUDWIG'S BUILDINGS

Today, King Ludwig II of Bavaria (1845-86) is known above all for his extravagant building projects, which include the royal villa of Linderhof, near Neuschwanstein, and the palace at Herrenchiemsee in eastern Bavaria While Neuschwanstein was an attempt to re-create the building styles of the Middle Ages (castle building), Herrenchiemsee was inspired by the Château de Versailles in France. Linderhof was originally a hunting lodge which, from 1869 onward, was repeatedly rebuilt, its interior shaped largely by Ludwig's fantasy world. The main inspiration here, as at Herrenchiemsee, was the French Rococo style of Louis XIV (Rococo Style, see p.72), as is evident from the Gobelin tapestries that adorn the Tapestry Room

A MODERN CASTLE

The medieval character of Neuschwanstein is illusory, for hidden behind the façade is what was, for the period, state-of-the-art technology. The royal chambers, for example, all have central heating and there is running water on every floor with both hot and cold water in the kitchens. There is a dumb waiter linking the kitchens with the dining room. The third and fourth floors of the castle even have telephone jacks and an electric bell system, which Ludwig could use to summon his servants and adjutants (assistants).

PICTURE CYCLE

Ludwig's choice of interior decor was inspired by the operas of German composer Richard Wagner (1813-83). Yet, although Ludwig commissioned set painter Christian Jank to create the interior design, most of the murals depict scenes taken not from operas, but from the same medieval sagas that Wagner himself used as a source. They feature Tannhäuser, a poet, Lohengrin, the Knight of the Swan, and Parsifal, King of the Holy Grail. Murals in the **Singing Room** show one of the legendary singing contests held at Wartburg Castle in the 13th century. Scenes from Wagner's opera Lohengrin (1846-48) decorate the King's Chambers. Josef Aigner and Ferdinand Piloty were among the artists employed







THE CRYPT

Several calamitous fires destroyed much of the Romanesque Episcopal church erected in 830–37 on the site where the Cathedral of St. Gall now stands. The only part of the building to have survived the ravages of time is the 9th–10th century **crypt**, which became an integral part of the Baroque cathedral. The bishops of St. Gall have long found their final resting place here—a tradition that has continued to the present day. Among those buried in the cathedral are Abbot Otmar, founder of the abbey, who, ten years after his death in 769, was interred in St. Otmar's Crypt beneath what is now the west gallery, and Bishop Otmar Mäder, who died in 2003.

THE ABBEY LIBRARY

Built in the second half of the 18th century, the abbey library is richly decorated with ceiling frescoes, intricate stuccowork, woodcarving, and intarsia. The two-story reading room, containing walnut and cherry bookcases reaching to the ceiling, is especially impressive. Around 130,000 leather-bound volumes and 2,000 manuscripts are housed here. These include such bibliophilic treasures as a copy of the Song of the Nibelungen and Codex Abrogans (790), a dictionary of synonyms believed to be one of the oldest existing written documents in German. The bestknown item in the collection is the St. Gallener Klosterplan, showing the layout of an ideal Benedictine monastery. Copied from an earlier manuscript by monks in the early 9th century, this document is thought to have been the blueprint for the St. Gallen Monastery.

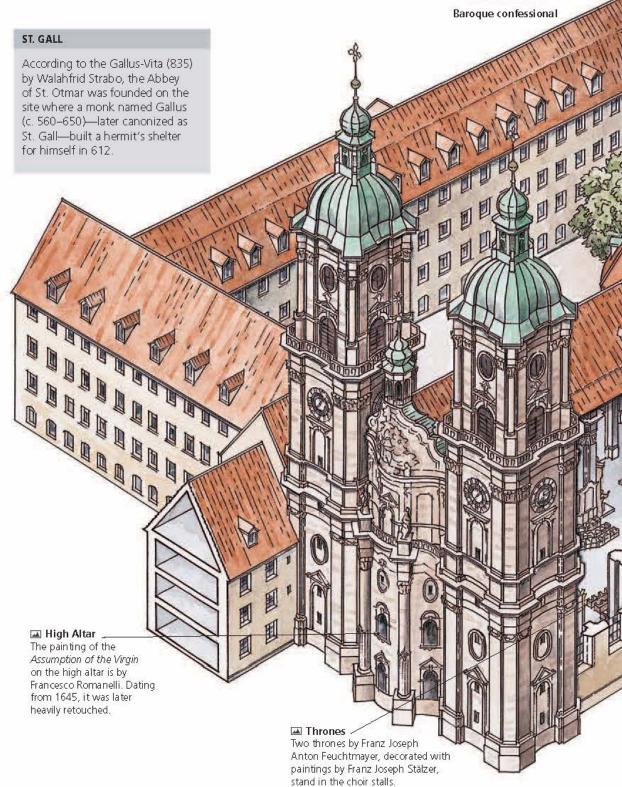
BAROQUE STYLE

Baroque was the predominant style for much of the 17th and early 18th centuries. Whereas in Italy, the golden age of Baroque was the high Baroque of 1630–80, Germany saw a flourishing of late Baroque well beyond 1700. The hallmarks of Baroque architecture are its preference for dynamic, curvaceous forms and broken gables; its Gesamtkunstwerk, or fusion of the arts to create an exuberant whole; and its liberal use of ornamentation and sculpture.

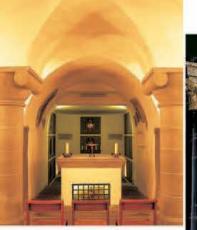
St. Gallen Monastery

The Benedictine abbey in St. Gallen, established in 720, was one of the most important monasteries in Europe, as well as being a leading center for the arts, letters, and sciences. A priceless library was gathered and monks came from far and wide to copy manuscripts, many of which still exist. Only the crypt remains of the Romanesque church and monastery built in the 9th century. The present Baroque cathedral and abbey, by architects Peter Thumb and Johann Michael Beer, were completed in 1766 and feature exquisite Rococo decorations (Rococo Style, see p.72).











Choir Stalls ➤
The Baroque choir stalls
(1763– 70), made of walnut
and decorated with paintings
and gilding, are by Franz
Joseph Anton Feuchtmayer
and Franz Joseph Stälzer.

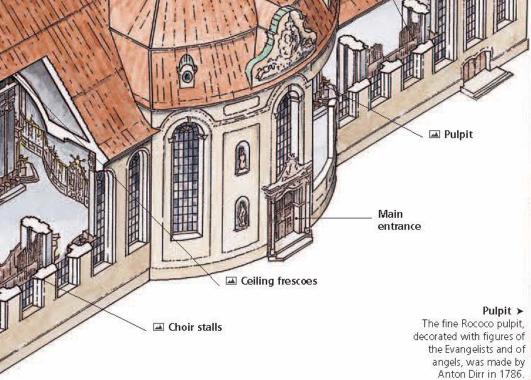
Confessionals
The 11 Baroque confessionals in the nave are crowned with medallions featuring reliefs by Franz Joseph Anton

A Crypt
Beneath the cathedral is the crypt of the earlier church. Its walls retain fragments of 10th-century frescoes above the altar.

High Altar ➤

Ceiling Frescoes >
The ceiling is decorated
with frescoes by Joseph
Wannenmacher.





Feuchtmayer and Anton Dirr dating from 1761–3.





▲ Throne

KEY DATES 816-37 1529 1755-67 1758-67 c. 720 1805 1824 1983 An abbey is founded A Benedictine abbey The people of St. Gallen The Baroque Episcopal The abbey library is Under Napoleon's The Episcopal church is St. Gallen Monastery by a priest named becomes a UNESCO with a basilica is expel the monks. They church is built with an built to house the influence, the elevated to the status Otmar to preserve priceless collection of World Heritage Site. constructed return in 1532 opulent nave and monastery is dissolved. of a cathedral. St. Gall's relics. stuccowork. illuminated manuscripts.



RUDOLF THE FOUNDER

In 1359, Duke Rudolf IV of Austria, later known as Rudolf the Founder, laid the foundation stone for the Gothic enlargement of what was then a Romanesque church (Romanesque Style, see p. 122). Born in 1339, Rudolf became a duke in 1358 and campaigned tirelessly to have St. Stephen's Church granted its independence from the bishop of Passau and elevated to the status of a cathedral. But it was not until 1469 that Vienna, under Frederick III, became a diocese in its own right. On Rudolf's death in 1365, a monument to him was placed in front of the high altar. In 1945, it was moved to the Ladies' Choir. Rudolf is buried in the ducal vault, next to his wife, Katharina.

CATACOMBS

The extensive catacombs beneath the cathedral were excavated in around 1470 to relieve pressure on Vienna's main cemetery. For the next 300 years, the people of Vienna were interred in the catacombs and by the time Emperor Joseph II put a stop to the practice in 1783, around 10,000 of them had been laid to rest here. At the heart of the complex is the Habsburg Vault, built by Rudolf IV in 1363. This houses 15 sarcophagi belonging to the early Habsburgs and 56 urns, which contain the entrails of the later Habsburgs who, from 1633 onward, were buried in the imperial vault of the Capuchin Monastery Church. Vienna's archbishops are interred beneath the Apostles' Choir in the Episcopal vault of 1953

ANTON PILGRAM

One of the cathedral's leading craftsmen was Anton Pilgram (c. 1460–1515), a master-builder from Brünn. His sandstone **pulpit** (1514–15) inside the nave contains portraits of the Four Fathers of the Church (theologians representing four physiognomic temperaments) and is considered a masterpiece of late-Gothic stone sculpture. Pilgram even included a portrait of himself as a "watcher at the window" beneath the pulpit steps. There is another **portrait of Pilgram** in the cathedral. Here, the builder and sculptor is shown peeping through a window into the church. Pilgram signed this work with the monogram. "MAP 1513."

St. Stephen's Cathedral, Vienna

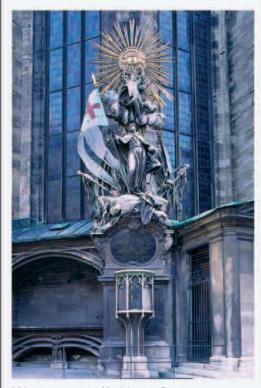
Situated in the medieval center of Vienna, St. Stephen's Cathedral is the soul of the city itself; it is no coincidence that urns containing the entrails of some of the powerful Habsburg family lie in a vault beneath its main altar. A church has stood on the site for more than 800 years, but all that remains of the original 13th-century Romanesque structure is the Giant's Doorway and the Heathen Towers. The Gothic nave, choir, and side chapels are the result of a major rebuilding program in the 14th and 15th centuries (Gothic Style, see p.54). The lofty vaulted interior contains an impressive collection of works of art spanning several centuries.



Carving of Rudolf IV

ST. JOHANNES CAPISTRANO

On the exterior wall of the choir is a pulpit built after the Christian victory over the Turks at Belgrade in 1456. It was from here that the Italian Franciscan Johannes Capistrano (1386–1456) is said to have preached against the Turkish invasion while on a visit to Austria in 1451. Capistrano had been appointed governor of Perugia, but was imprisoned while on a peace mission. After having a vision of St. Francis, he joined the Franciscans and became a priest in 1425. In 1454 he assembled troops for the Crusade against the Turks. This event is depicted in the statue above the pulpit showing Capistrano trampling on a Turkish invader. He was canonized in 1690.



16th-century statue of St. Johannes Capistrano

Heathen Towers

These towers, together with the massive Giant's Doorway, are part of the Romanesque church and stand on the site of an earlier heathen shrine.



Main entrance

Symbolic Number "05" _ The sign of the Austrian Resistance Movement was carved here in 1945.

TOOTHACHE FIGURE

According to a legend, the "Zahnwehherrgott," a sculpture of a man in agony, punished those who ridiculed him by inflicting them with a toothache. Only when they atoned for their sins did the pain subside. The figure is located beneath the north tower.

North Tower

According to legend, the "Eagle" tower was never completed because its masterbuilder, Hans Puchsbaum, broke a pact he had made with the devil by pronouncing a holy name. The devil then caused him to fall to his death





Portrait of Pilgram >

Master craftsman Anton Pilgram left a portrait of himself, holding a square and compass, below the corbel of the original organ.

Entrance

to catacombs



"SteffI", or Spire ➤

The 450-ft (137-m) high Gothic spire is a famous landmark. From the Sexton's Lodge, it is possible to climb the stairs as far as a viewing platform.

Wiener Neustädter Altar >

Friedrich III commissioned this elaborate altarpiece at the head of the north nave in 1447. Painted panels open out to reveal an earlier carved interior of the life of Christ. This panel shows the Adoration of the Magi (1420)



A Tiled Roof

Almost a quarter of a million glazed tiles cover the roof; they were meticulously restored after the damage caused in the last days of World War II



Constructed from black marble between 1640 and 1660, this is adorned with an altarpiece by Tobias Pock depicting the martyrdom of St. Stephen







Singer Gate >

Lower vestry

Singer Gate

This was once the entrance for male visitors. A sculpted relief above the door details scenes from the life of St. Paul.



A Large Rosa Room

✓ Round Chinese Cabinet

▼ Vieux-Lacque

Schönbrunn Palace, Vienna

The former summer residence of the imperial Habsburg family takes its name from a beautiful spring found on the site. Leopold I asked the Baroque architect Johann Bernhard Fischer von Erlach to design a residence here in 1695, but it was not until Empress Maria Theresa employed the Rococo architect Nikolaus Pacassi in the mid-18th century that it was completed (Rococo Style, see p.72). Fine gardens complement the palace.



Empress Maria Theresa

Main

entrance



Round Chinese Cabinet Maria Theresa used this white and gold room for private discussions with her state chancellor, Prince Kaunitz. The walls are adorned with lacquered panels.

Great Gallery .

Hidden Staircase . This leads to the apartment of the state chancellor, above which he had secret conferences with Empress Maria Theresa.

Chapel

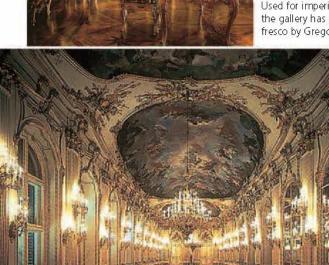
Vieux-Lacque Room During her widowhood, Maria Theresa lived in this room, which is decorated with exquisite Oriental lacquered panels.

Napoleon

Millions' Room Maria Theresa's conference room features superb

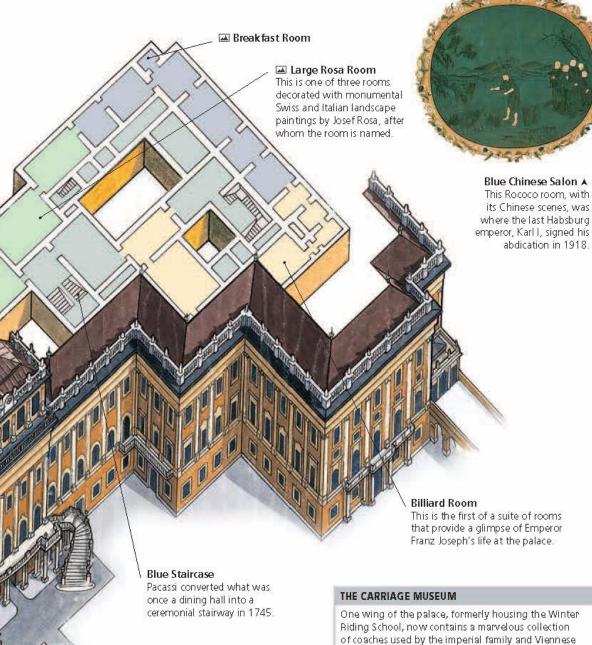
Rococo decor.

¥ Great Gallery Used for imperial banquets, the gallery has a lovely ceiling fresco by Gregorio Guglielmi.





✓ Breakfast Room The imperial family's breakfast room has white wood paneling inlaid with applique floral designs worked by Maria Theresa and her daughters.



A MILITARY MAN

When visiting Schönbrunn, Emperor Franz Joseph I would sleep in a simple, iron-framed bed, as befit a man who felt more at home in the field. He died at the palace in 1916, after nearly 68 years on the throne.

One wing of the palace, formerly housing the Winter Riding School, now contains a marvelous collection of coaches used by the imperial family and Viennese court. It includes more than 60 carriages dating back to the 17th century, as well as riding uniforms, horse tack, saddles, coachmen's liveries, and paintings and drawings of horses and carriages. The main exhibit is the richly decorated and carved coronation coach of Emperor Charles VI.



KEY DATES 1696 1728 1743-63 1775-80 1918 1996 Fischer von Erlach Emperor Charles As the Habsburg Schönbrunn Palace is Nikolaus Pacassi Court architect begins work on VI purchases enlarges Schönbrunn Johann Ferdinand Empire ends, the added to UNESCO's Emperor Leopold I's Schönbrunn and into a palatial Hetzendorf von palace passes to the World Heritage list. imperial and family new residence later makes a gift of Hohenberg redesigns Austrian state it to his daughter, residence in the the gardens. Maria Theresa. Rococo style.



MARIA THERESA

The daughter of Emperor Charles VI, Maria Theresa (1717–80) became archduchess of Austria and queen of Hungary and Bohemia on her father's death in 1740. Five years later, her husband, Duke Francis Stephen of Lorraine, was recognized as Holy Roman Emperor. Maria Theresa instigated numerous reforms in the spirit of the Enlightenment. She initiated state-supported elementary schools, introduced a new penal code, and reduced taxation. She also worked toward unifying Habsburg lands by centralizing control over the empire. One of her 16 children was Marie-Antoinette, who married Louis XVI of France.

PREVIOUS PALACES

Schönbrunn Palace stands on the site of the Katterburg, a 14th-century castle that belonged to the Neuburg Convent. By the time Emperor Maximilian II bought the property in 1569, it included a mansion, a mill and stables. Maximilian intended to turn it into a pleasure palace and a zoo, and indeed a palace was finally built in the mid-17th century by the widow of Emperor Ferdinand II. She named it "Schönbrunn" after the "Schönen Brunnen" (beautiful spring), discovered by Emperor Matthew II while hunting on the estate in 1612. This first palace was destroyed by the Turks during the Siege of Vienna in 1683. Emperor Leopold I acquired the estate in 1686 and commissioned today's palace.

CEREMONIAL STATE ROOMS

As architect to the court of Empress Maria Theresa, Nikolaus Pacassi oversaw the enlargement and redesign of Schönbrunn Palace. Together with Rococo artists and craftsmen, including Albert Bolla, Gregorio Guglielmi, Isidor Canevale, and Thaddaeus Adam Karner, Pacassi was responsible for creating the interiors of both the state rooms and the private quarters. The Large Rosa Room and the Millions' Room, for example, feature frescoes and stuccowork in the Rococo style commissioned by Maria Theresa herself. The Schönbrunn Palace is renowned for its intricate gilded stuccowork, elegant mirrored galleries, and exotic chinoiserie.



▲ Canaletto Room The walls of this room are decorated with 23 scenes of Warsaw by Bernardo Bellotto (1720-80), a Venetian painter who was known in Poland by the name of his famous uncle.

< Crown Princes' Rooms



Royal Castle, Warsaw

A grand example of Baroque architecture, the original Royal Castle (Zamek Królewski) was planned on the site of a Mazovian fortress when Zygmunt III Vasa decided to move Poland's capital from Cracow to Warsaw in 1596. It was designed in the early-Baroque manner (Baroque Style, see p.80) by the Italian architects Giovanni Trevano, Giacomo Rodondo, and Matteo Castelli between 1598 and 1619. Successive rulers remodeled the castle many times. Following its destruction in World War II, the castle was rebuilt between 1971 and 1984, and many of the original furnishings were returned. This massive undertaking was funded largely by donations from the Polish people.

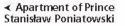


Tabletop from 1777



▼ Deputies' Chamber

The Constitution of May 3 was formally adopted here in 1791. The coats of arms of all the administrative regions and territories of the Republic are depicted on the walls and a royal throne is also on show.



✓ Zygmunt Tower This tower, 200 ft (60 m) high, was built in 1619. It is crowned by a cupola

with a spire. It is also known as the Clock Tower (Zegarowa), since a clock was installed in 1622.



Crown Princes' Rooms

Historical paintings by Jan Matejko are displayed in a gallery in these former royal apartments.

■ Deputies' Chamber

Great Assembly Hall ¥

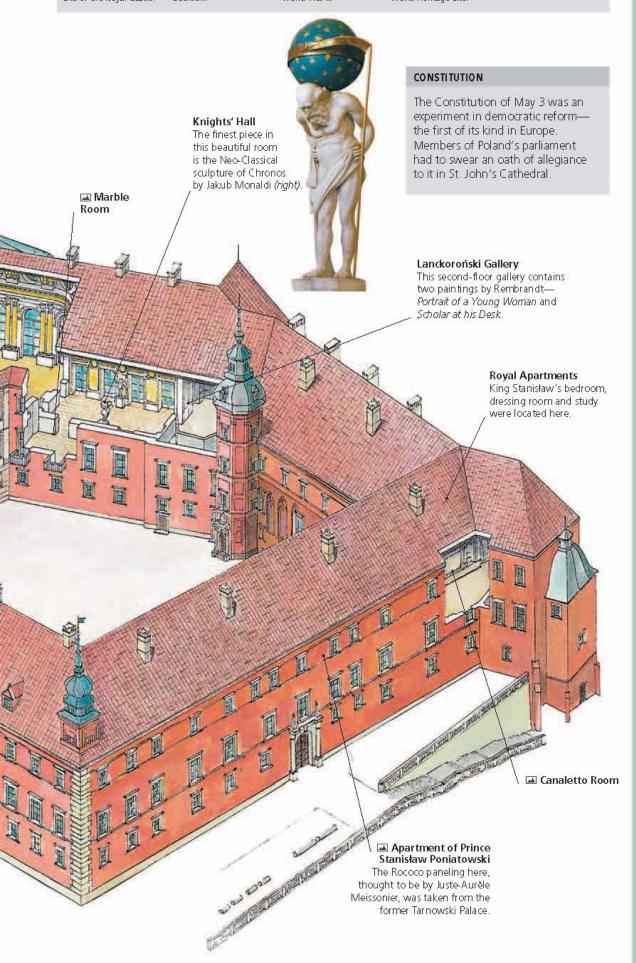
Main entrance







KEY DATES Early 1300s 1598 1980 1939-44 1984 The dukes of Mazovia Construction begins The Royal Castle The Old Town and castle The restored Royal Castle on the Baroque become a UNESCO build a fortress on the is destroyed in opens to the public World War II. site of the Royal Castle. addition. World Heritage Site





INSIDE THE CASTLE

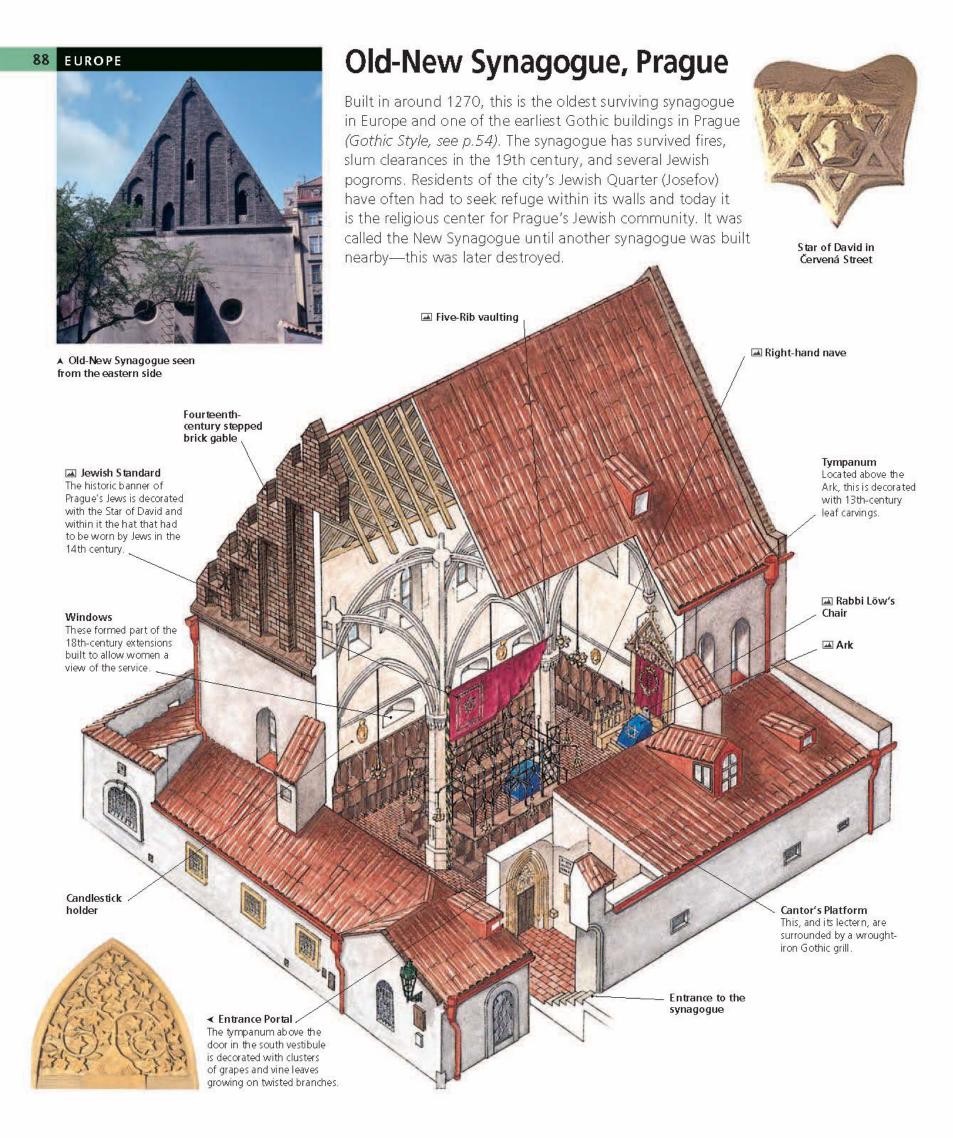
The Royal Castle's fascinating interior is the result of its dual role as a royal residence and as the seat of the Sejm (parliament). A tour of the castle visits lavish royal apartments as well as the **Deputies' Chamber** and the Senate. Rooms have been meticulously reconstructed in the style of the 18th century, and many of the furnishings and objets d'art are original to the castle. These include statues, paintings, and even fragments of woodwork and stucco that were rescued from the building and hidden during World War II. The **Canaletto Room** displays the 18th-century paintings of Warsaw by an Italian artist that were used as source material for the rebuilding of the castle.

THE GALLERIES

Among the many permanent exhibitions in the castle, two galleries are of particular interest. The Gallery of Decorative Arts is a showcase for 17th–18th century ceramics, glass, furniture, textiles, bronzes, silverware, and jewelry. Around 200 pieces are on display, including an Etruscan vase saved from the original castle. In the Lanckoroński Gallery there are paintings from the former royal gallery of King Stanisław August Poniatowski, donated by the Lanckoroński family in 1994. The collection includes works by Rembrandt, Teniers the Younger, and Anton von Maron.

POLAND'S LAST KING

Born in 1732, King Stanisław August Poniatowski (r. 1764-95) was the son of the palatine of Mazovia. He spent his early life in St. Petersburg, where he was introduced to the future empress, Catherine the Great, who took him as her lover. Russia was eager to add Poland to its empire and, perhaps to this end, Catherine promised the Polish crown to Poniatowski. When he fell out of favor and was sent back to Warsaw, she engineered his election as king of Poland in 1764. He introduced economic reforms, promoted the arts and sciences, and presided over the adoption of the Constitution of May 3, 1791 But Poniatowski was unable to repel his mighty neighbors: by 1795 Poland had lost its statehood and the king was forced to abdicate.





This shrine is the holiest place in the synagogue and holds the sacred scrolls of the Torah.

Jewish Standard A

POLAND OLD-NEW SYNAGOGUE, PRAGUE CZECH REPUBLIC • Brno SLOVAKIA AUSTRIA

THE INTERIOR

This Gothic hall, with its distinctive crenellated gable, has been a house of prayer for over 700 years. Its twin-nave has a ribbed, vaulted ceiling. To avoid the sign of the cross, a fifth rib was added (five-rib vaulting) and decorated with vine leaves, symbolizing the fertility of the land, and ivy. In a two-story building the women's gallery would be upstairs, but here it is located in the vestibule. The number 12 is a recurring feature throughout the synagogue, probably in reference to the 12 tribes of Israel.

THE JEWISH GHETTO

The Old-New Synagogue stands in Josefov, once Prague's Jewish Ghetto. The area is named after Emperor Josef II, who partially relaxed the discrimination against Jews during his reign in the 18th century. For centuries, Prague's Jews had suffered from oppressive laws—in the 16th century, they had to wear a yellow circle as a mark of shame. In the 1890s, the ghetto slums were razed, but a handful of buildings survived, including the Jewish Town Hall and a number of synagogues. During World War II, the Nazis occupied Prague and almost two-thirds of the city's Jewish population perished in the Holocaust, mainly in Terezín concentration camp, situated northwest of Prague.

THE SYNAGOGUE

The Old-New Synagogue is one of three synagogues in Prague where services are held today. Admonishing worshipers on their way into the synagogue are the following words inscribed on the entrance portal: "Revere God and observe his commandments! For this applies to all mankind." Inside, men and women are segregated for religious rituals. Services are held in the main prayer hall and are reserved for men only; those attending must keep their heads covered. Women may follow the rituals from the adjacent women's gallery, where they can stand and watch through small slot windows. In the center of the hall is the bima, similar to a wrought-iron cage, with a lectern from which the Torah is read daily (cantor's platform). Above this is a red Jewish Standard, a copy of the 1716 original.

RABBI LÖW AND THE GOLEM

The great scholar Rabbi Löw was director of the Talmudic school (which studied the Torah) in the late 16th century. According to legend, he made a being, the Golem, from clay and brought it to life by placing a magic stone tablet in its mouth. The Golem went berserk, so the rabbi removed the tablet and hid the creature in the Old-New Synagogue's rafters.



Etching of Rabbi Löw

Right-Hand Nave >

The glow from the bronze chandeliers provides light for worshipers using the seats lining the walls.

Rabbi Löw's Chair >

A Star of David marks the chair of Chief Rabbi Löw, placed where the distinguished 16th-century scholar used to sit.



Five-Rib Vaulting > Two massive octagonal pillars inside the hall support the five-rib vaults.

OLD JEWISH CEMETERY

Near the Old-New Synagogue is the Old Jewish Cemetery. For more than 300 years, this was the only burial ground permitted for Jews. More than 100,000 people are estimated to be buried here. The oldest gravestone dates from 1439, and the last burial was in 1787

the synagogue.

KEY DATES

KET DATES				
1200s	1700s	1883	1992	
Work starts on building the New Synagogue.	Construction of the women's gallery on the western and northern sides of	The architect Joseph Mocker begins renovation work on the building.	The Historic Center of Prague becomes a UNESCO World Heritage Site.	







THE BRIDGE'S SCULPTORS

The sculptor Matthias Braun (1684-1738), who was born near Innsbruck and learned his craft in Austria and Italy, came to Prague in 1710. His first work, the statue of St. Luitgard, was produced when he was only 26. Other sculptors were Johann Brokoff (1652-1718), of German origin, and his sons Michael and Ferdinand. The latter produced some of Charles Bridge's most dynamic figures, such as St. Adalbert and St. Francis Xavier, which shows the Jesuit missionary supported by three Moorish and two Asian converts.

EMULATING ROME

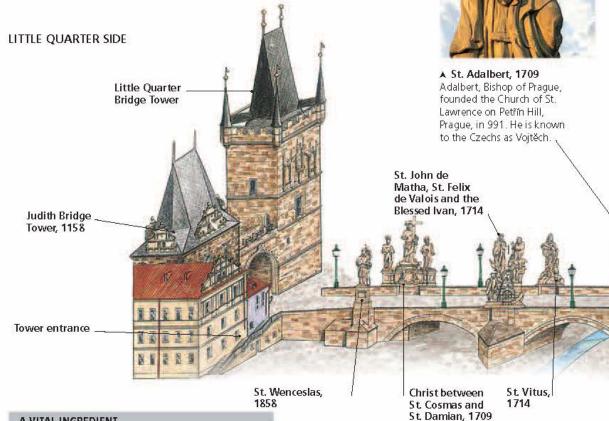
Charles Bridge was named after Charles IV, crowned Holy Roman Emperor in 1355, who wanted the bridge to echo the ancient Rome of the Caesars. However, it was not until the late 17th century that statues inspired by Roman sculpture were placed on the bridge. The statues mainly depict saints, including St. Vitus, the bridge's patron saint. Cherubs, dice, and a centurion's gauntlet form part of the statue of The Madonna and St. Bernard. Nearby, the Dominicans are shown with the Madonna and their emblem, a dog (The Madonna, St. Dominic, and St. Thomas).

THE LIFE OF ST. JOHN NEPOMUK

The cult of St. John Nepomuk, who was canonized in 1729, was promoted by the Jesuits to rival the revered Czech martyr Jan Hus, whose reformist preaching earned him a huge following in the early 15th century. Jan Nepomucký, vicar-general of the Archdiocese of Prague, was arrested in 1393 by Wenceslas IV, along with others who had displeased the king over the election of an abbot. John died under torture and his body was bound and thrown off Charles Bridge. He is commemorated by a statue (St. John Nepomuk) and a bronze relief depicting him being thrown off the bridge. St. John Nepomuk is a popular figure and statues modeled on this one can be seen in countries throughout Central Europe, especially on bridges.

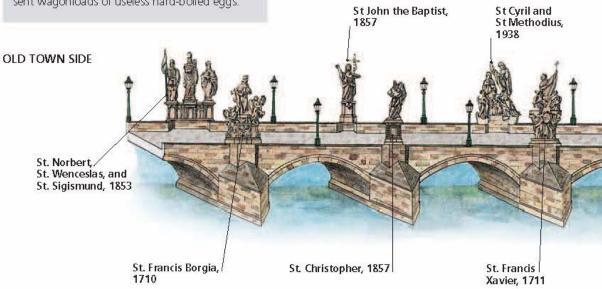
Charles Bridge, Prague

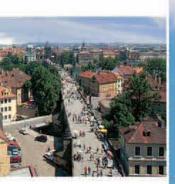
Prague's most familiar monument, connecting the city's Old Town with the Little Quarter, was the city's only crossing over the VItava River until 1741. It is 1,706 ft (520 m) long and built of sandstone blocks. Now pedestrianized, at one time it could take four carriages abreast. Today, due to wear and tear, many of its statues are copies. The Gothic Old Town Bridge Tower (Gothic Style, see p.54) is one of the finest buildings of its kind.



A VITAL INGREDIENT

Large quantities of egg white were needed to strengthen the mortar used in building the bridge and Emperor Charles IV asked everyone with chickens to supply eggs for this purpose. Legend has it that one village misunderstood and sent wagonloads of useless hard-boiled eggs.





▲ View from Little Quarter Bridge Tower The tall pinnacled wedge tower gives a superb view of the city of 100 spires.



▲ St. Luitgard, 1710 This statue, sculpted by Matthias Braun, is based on a blind Cistercian nun's celebrated vision in which Christ appeared and permitted her to kiss his wounds.



A St. John Nepomuk



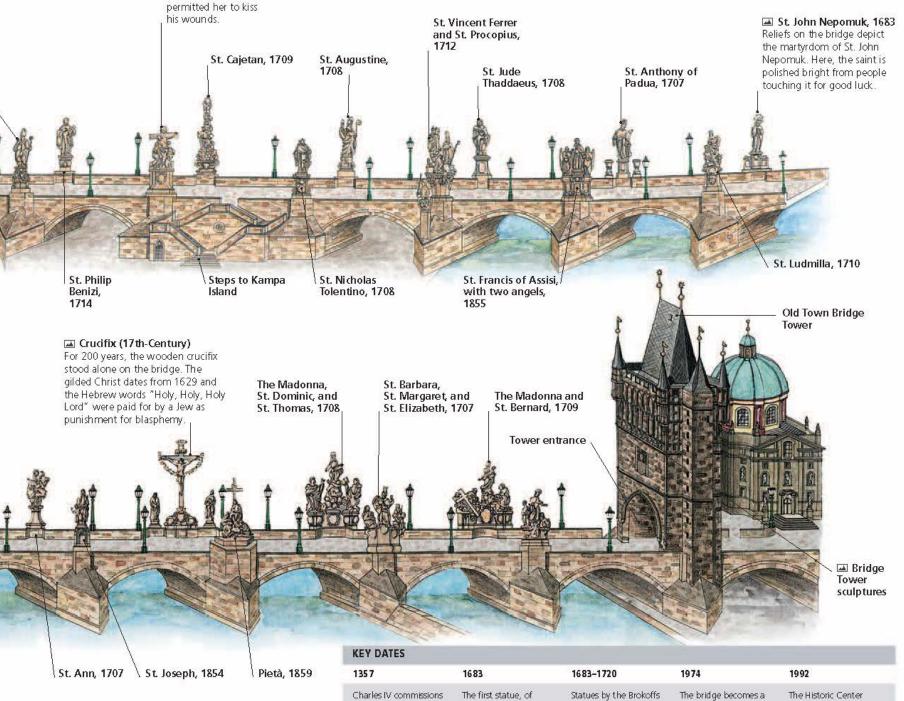
▲ Bridge Tower Sculptures Peter Parlér's sculptures include St. Vitus, the bridge's patron saint, Charles IV, and Wenceslas IV.



A Thirty Years' War In the last hours of this war, the Old Town was saved from the invading Swedish army. The truce was signed in the middle of the bridge in 1648.



▲ Crucifix (17th century)



Peter Parléi to construct

a new bridge, replacing

the Judith Bridge.

St. John Nepomuk, is

placed at the center

of the bridge.

and Braun are erected

along the bridge.

pedestrian area and a

focal point of the city.

of Prague joins the

Heritage Sites.

UNESCO list of World



IMRE STEINDL

Professor of architecture at Hungary's Technical University, Imre Steindl (1839–1902) won the competition to design Hungary's Parliament. The building was intended to symbolize the country's thriving democracy. Steindl drew inspiration from Charles Barry and A. W. Pugin's Neo-Gothic Houses of Parliament in London. However, for the internal spaces, including the superb **Dome Hall**, he also used references from the Baroque (*Baroque Style*, see p.80) and Renaissance (*Renaissance Style*, see p.131) styles as well.

SACRED CROWN OF ST. STEPHEN I

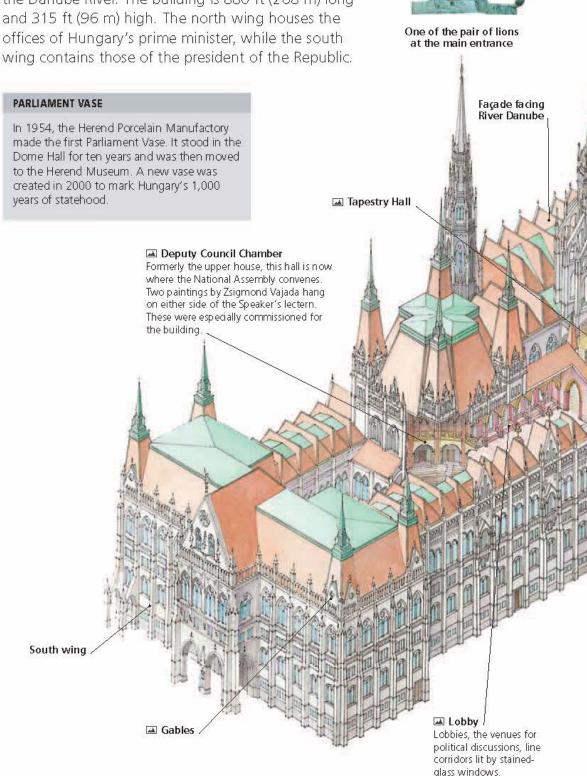
The first Hungarian king, St. Stephen I (c. 975—1038), received the royal crown from Pope Sylvester II in the year 1000. The crown became a symbol of Christianity and all Hungarian kings who followed after Stephen I were crowned with the sacred diadem. Many today believe that the crown bears little resemblance to the original crown, because over the centuries it has been lost and stolen. Battles and wars have also been fought for possession of the crown. At the end of World War II, it was taken to the US for safekeeping and returned to Hungary with much fanfare in 1978. The crown now resides in Hungary's Parliament.

PARLIAMENT'S STATUES

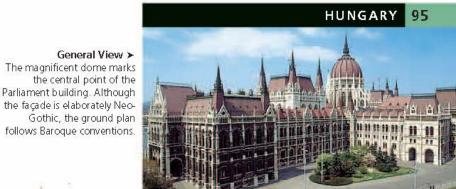
Surrounding the external façade of the Parliament building are 90 statues, which include some of the country's past monarchs, prime minsters, writers, and revolutionaries. A statue of the Transylvanian prince Ference Rákóczi II (1676-1735), who fought the Habsburgs for Hungary's freedom, is at the southern end. Nearby is a seated statue of the Hungarian writer József Attila (1905–37). His first collection of poems was published when he was 17. Adorning the north wing is the statue of Lajos Kossuth (1802-94), who fought for Hungary's independence for six months in 1849 before being driven into exile. Next to it is a statue of the democratic prime minister and revolutionary Mihály Károlyi (1875-1955). He ruled Hungary for five months in 1919 until he was forced into exile after the government was overthrown by the Communists

Parliament, Budapest

Imre Steindl's rich Neo-Gothic Parliament (Gothic Style, see p.54) is Hungary's largest building and a symbol of Budapest. Hungarian materials, techniques, and master craftsmen were used in its construction on the bank of the Danube River. The building is 880 ft (268 m) long and 315 ft (96 m) high. The north wing houses the offices of Hungary's prime minister, while the south wing contains those of the president of the Republic



KEY DATES 1882 1885 1902 1987 Imre Steindl wins Work on the The foundation The historic area of the competition for stone is laid along Parliament building Budapest, including the the design of the the Danube is completed. Parliament building, is Parliament building. embankment inscribed as a UNESCO World Heritage Site.





▼ Carved Stones Over 500,000 stones were carved for the exterior decoration.





Almost every corner of the Parliament building features gables with lacelike pinnacles based on Gothic sculptures.



North wing

Old Upper House Hall

Tapestry Hall ➤ This hall is decorated with a Gobelin tapestry illustrating Prince Arpad, with seven Magyar leaders under his command, signing a peace treaty and blood oath.

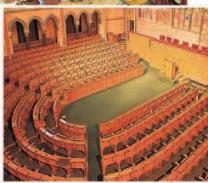


Old Upper House Hall >

This vast hall is virtually a mirror image of the National Assembly Hall. Both halls have public galleries running around a horseshoe-shaped interior.



The ceiling of the 315-ft (96-m) high dome is covered in an intricate design of Neo-Gothic gilding combined with heraldic decoration.







Main

entrance

■ Dome Hall

■ Dome

Adorning the massive pillars

some of the rulers of Hungary.

that support Parliament's central dome are figures of

¥ Lobby

▼ Dome Hall

Main Staircase The best contemporary

by György Kiss.

Royal Insignia

The Crown Jewels of Hungary,

except the Coronation Mantle,

are kept in the Dome Hall.

artists were invited to

decorate the interior. The

sumptuous main staircase

features ceiling frescoes by Károly Lotz and sculptures













THE SMALL AND LARGE HERMITAGE

Catherine the Great hired architect Yuriy Velten to erect the Small Hermitage so she could privately entertain her chosen friends at court The building was designed in Baroque style with Classical features to blend in with Rastrelli's Baroque Winter Palace. After the Small Hermitage was completed, Catherine decided to house her newly acquired collection of more than 255 paintings in the building. The Large Hermitage was built a few years later to accommodate the tsarina's vast library and works of art. Over the centuries. Catherine's original collection has been added to. There are now more than 3 million pieces of art displayed in the Small and Large Hermitage, as well as in an ensemble of buildings that includes the Winter Palace. There are exhibits from the Stone Age up to the 20th century, including works by Matisse, Rembrandt, and Cézanne.

BARTOLOMEO RASTRELLI

The Italian architect Rastrelli (1700-71) studied under his father and assisted him during his appointment as architect for Czar Peter I. In 1722, Rastrelli took on his own commissions in Moscow and St. Petersburg, which established him as a brilliant Baroque architect. During Elizabeth's reign, he was appointed Chief Court Architect and went on to design several buildings, including the grandiose Winter Palace. When Catherine the Great ascended the throne, Rastrelli retired from court as the empress preferred a stricter, Classical style.

CATHERINE II

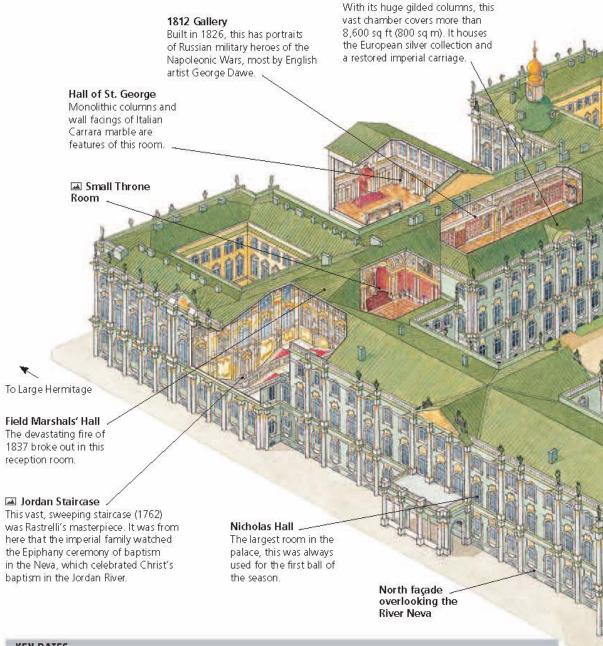
Czarina Elizabeth chose the German-born princess Catherine (1729–96), the future Catherine the Great, as a wife for her successor, Peter III. When he ascended the throne in 1762, Catherine had resided in Russia for 18 years and had fully immersed herself in Russian culture. Six months into Peter's reign. Catherine and her allies at the imperial guard had the czar killed. She was then crowned ruler of Russia in 1763. During her reign she implemented many reforms and expanded Russian territory. Art and trade flourished and new academies were built, including the Russian Academy of Sciences and the Academy of Fine Art.

The Winter Palace, St. Petersburg

This superb example of Baroque architecture (Baroque Style, see p.80) was the home of the Russian czars and czarinas, including Catherine the Great, from the late 18th century. Built for Czarina Elizabeth (r. 1741-62), the opulent Winter Palace was the finest achievement of Italian architect Bartolomeo Rastrelli. Though the exterior has changed little, the interiors were subsequently altered by a number of architects and then largely restored after a fire gutted the palace in 1837. After the assassination of Alexander II in 1881, the imperial family rarely lived here. In July 1917, the Provisional Government took the palace as its headquarters, which led to its storming by the Bolsheviks.



Bartolomeo Rastrelli, court architect until 1763



KEY DATES 1754-62

The Winter Palace is constructed by Bartolomeo Rastrelli The Small Hermitage by Yuriy Velten is built for Catherine II's art collection

1764-75

1771-87

Catherine's art collection grows and a second extension, the Large Hermitage, also by Yuriy Velten, is added.

Anatoly Lunacharsky of the Soviet Government declares the Winter Palace and the Hermitage

state museums

1917

The city of St. Petersburg, including the Winter Palace and Hermitage, is declared a UNESCO World Heritage Site.



Alexander Hall

Architect Aleksandr Bryullov

employed a mixture of Gothic

this reception room of 1837.

vaulting and Neo-Classical stucco bas-reliefs of military themes in

A Jordan Staircase



▲ Small Throne Room Dedicated in 1833 to the memory of Peter the Great, this room houses a silver-gilt English throne made in 1731.

French Rooms

Designed by Bryullov in 1839, these house a



A Alexander Hall

White Hall

This room was decorated for the wedding of the

future Alexander II in 1841.



Malachite Room A More than 2 tons of ornamental stone were used in this sumptuous room (1839), which is decorated with malachite columns and vases, gilded doors, and rich parquet flooring.



Golden Drawing Room ➤



A Dark Corridor The French and Flemish tapestries here include The Marriage of Emperor Constantine, made in Paris in the 17th century to designs by Rubens.

Golden Drawing Room

Created in the 1850s, this room was extravagantly decorated in the 1870s with all-over gilding of walls and ceiling. It houses a display of Western European carved gems.

■ Dark Corridor

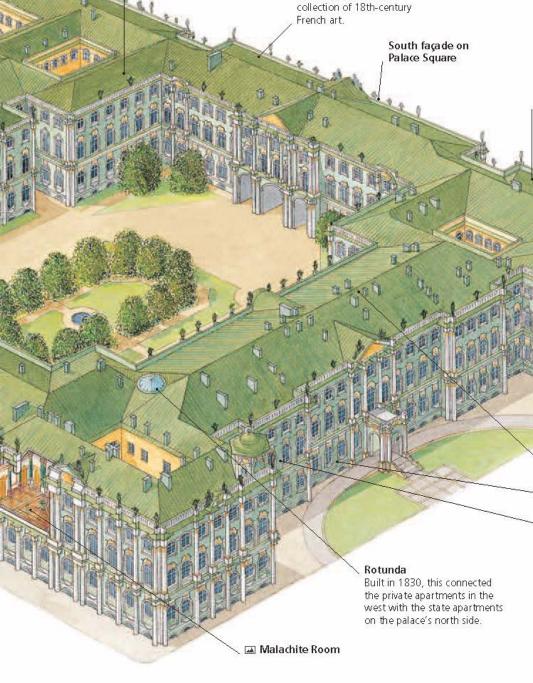


Gothic Library

The wood-paneled library was created by Meltzer in 1894. This, and other rooms in the northwest part of the palace, were adapted to suit Nicholas Il's bourgeois lifestyle.

STORMING THE PALACE

On the evening of October 25, 1917, the Bolsheviks fired some blank shots at the Winter Palace, storming it soon after to arrest the Provisional Government that resided there. The Communists took over power and the Russian Revolution was a fact.



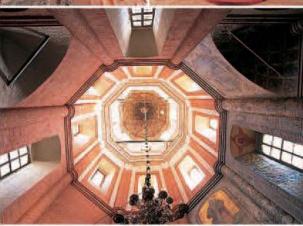
A Detail, Chapel of the Entry of Christ into Jerusalem



← Chapel of St. Cyprian This is one of eight main chapels commemorating the campaigns of Ivan the Terrible against the town of Kazan, to the east of Moscow. It is dedicated to St. Cyprian, whose feast is on October 2, the day after the last attack.

← Chapel of the Entry of Christ into Jerusalem





★ Central Chapel of the Intercession Light floods in through the windows of the tent-roofed central church, which soars to a height of 200 ft (61 m).

St. Basil's Cathedral, Moscow

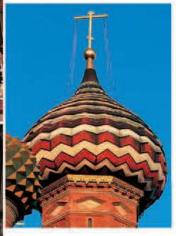
Regarded as one of the most beautiful monuments to the Russian Orthodox Church, St. Basil's has come to represent Moscow and Russia to the outside world. Commissioned by Ivan the Terrible to celebrate the capture of the Mongol stronghold of Kazan in 1552, the cathedral was completed in 1561. It is reputed to have been designed by the architect Postnik Yakovlev. According to legend, Ivan was so amazed at the beauty of Yakovlev's work that he had him blinded so that he could never design anything as exquisite again. The church was officially called the Cathedral of the Intercession, because the final siege of Kazan began on the Feast of the Intercession of the Virgin. However, it is more usually known as St. Basil's after the "holy fool," Basil the Blessed, whose remains are interred in the cathedral's ninth chapel.

RED SQUARE

St. Basil's Cathedral is located in Red Square in the heart of Moscow. The name of the square is derived from the Russian word krasnyy, which originally meant "beautiful" but later came to denote "red."

< Main iconostasis

▼ Colorful, onion-shaped dome, part of the façade of St. Basil's



Domes

Following a fire in 1583, the original helmet-shaped cupolas were replaced by ribbed or faceted onion domes. It is only since 1670 that the domes have been painted in many colors; at one time St. Basil's was white, with golden domes.

Chapel of St. Cyprian

Chapel of the Three Patriarchs

Chapel of St. Basil

The ninth chapel to be added to the cathedral was built in 1588 to house the remains of the "holy fool," Basil the Blessed.

Entrance An exhibition on the

cathedral's history, and armor and weapons dating from the time of Ivan the Terrible, can be seen here

KEY DATES

1555

Building work commences, and St. Basil's is completed six vears later

Onion-shaped domes are built to replace the original cupolas destroved by fire.

1583

Napoleon's cavalry stable their horses in St. Basil's during his invasion of Russia.

1812

The Communist authorities close the cathedral and melt

down its bells

St. Basil's is turned into a museum dedicated to the Russian conquest of Kazan.

1929

St. Basil's is declared a UNESCO World Heritage Site in 1990, and returned to the Orthodox

Church in 1991



Bell tower

Chapel

of the Trinity





BASIL, THE "HOLY FOOL"

Born in 1464 into a peasant family in the village of Yelokhovoe, Basil worked as an apprentice to a shoemaker. His skill at divining the future soon became apparent and at the age of 16 he left for Moscow. There he undertook the ascetic challenge of walking the city's streets barefoot, educating Muscovites in piety. Although he was often derided and beaten for his sermonizing, his fortune changed in 1547, when he foresaw the fire of Moscow and was credited with preventing it from destroying the entire city. On Basil's death, at the age of 88, Czar Ivan the Terrible carried his body to the cathedral for burial. He was canonized in 1579.

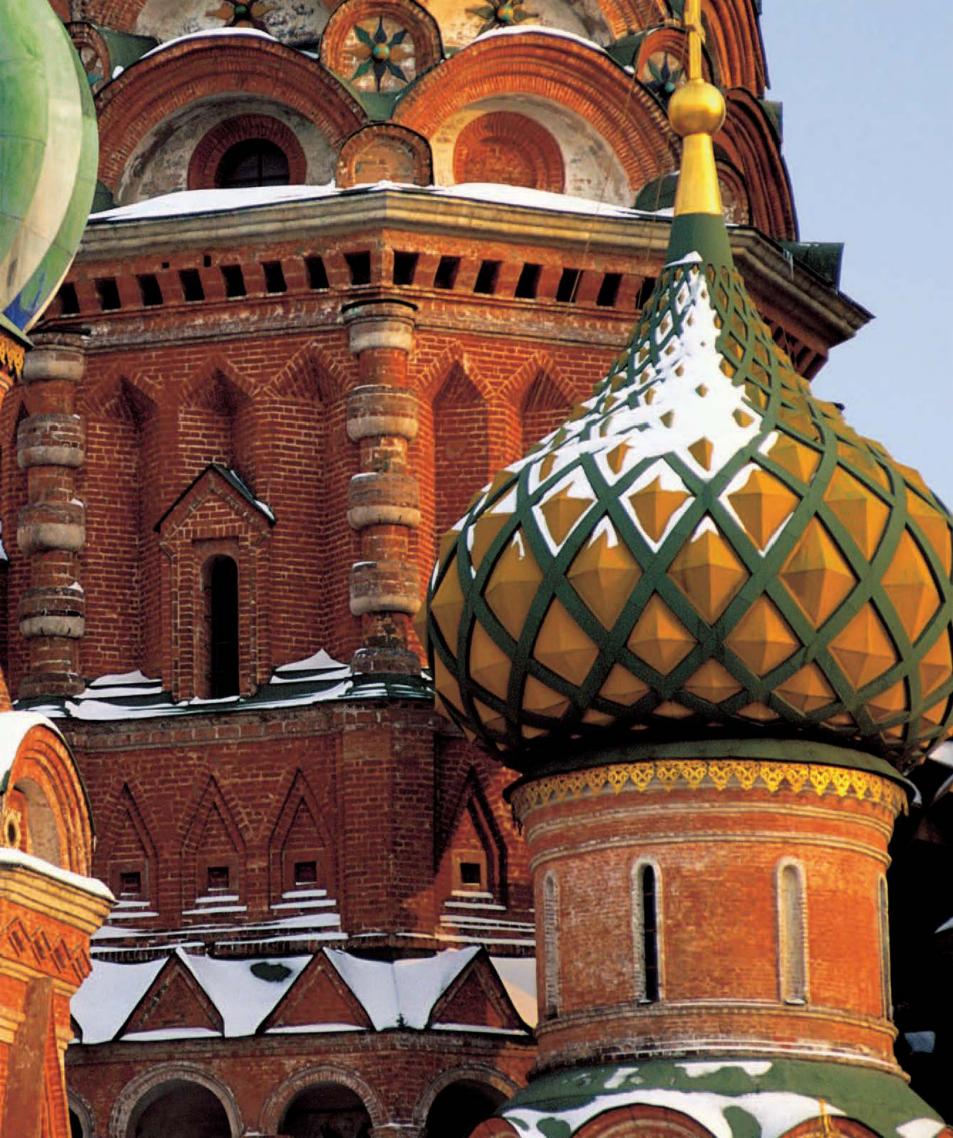
CATHEDRAL DESIGN

St. Basil's Cathedral consists of nine churches dedicated to different saints. Each of these, with the exception of the Central Chapel of the Intercession, symbolizes the eight assaults on Kazan and is topped by a multicolored dome. All of the churches are uniquely decorated and different in size from each other, giving the structure an all-around balance. The building is designed to be viewed from every angle, hence the absence of a single main façade. In plan, the eight churches form an eight-pointed star. The four larger domes form the endpoints of an imaginary cross with the Central Chapel in the middle, and the smaller churches between the larger ones.

ICON PAINTING IN RUSSIA

The Russian Orthodox Church uses icons for both worship and teaching and there are strict rules for creating each image. Iconography is a symbolic art, expressing in line and color the theological teaching of the Church. Icons are thought to be imbued with power from the saint they depict and are often invoked for protection during wartime. The first icons were brought to Russia from Byzantium. Kiev, today the capital of Ukraine, was Russia's main iconpainting center until the Mongols conquered it in 1240. The Moscow school was founded in the late 15th century when Ivan the Terrible decreed that artists must live in the Kremlin. The great icon painters Dionysius and Andrey Rublev were members of this renowned school







BARON VON ESCHWEGE

In 1839, Ferdinand of Saxe-Coburg-Gotha acquired the well-positioned land of a former monastery and appointed the German architect Baron von Eschwege (1777-1855) to construct a fabulous summer palace. Von Eschwege turned the king's extravagant dreams into reality and, over the following decade, he erected a fantasy palace around the restored ruins of the monastery. On a nearby crag is the statue of a warrior-knight that supposedly guards the palace. It is an enormous stone sculpture whose base bears an engraving of the baron's coat of arms.

THE PALACE'S DESIGN

Ferdinand's passion for the arts, and for scientific progress, resulted in an eclectic mix of architectural styles that included Gothic (Gothic Style, see p. 54), Renaissance (Renaissance Style, see p. 131) and elements of the rich, indigenous Portugeuse style, Manueline. Painted in shades of pink, blue, and yellow, the exterior of the building is lavishly carved or covered with azulejo tile arrangements, with golden domes, crenellated turrets, and gargoyles. Inside the palace, highlights include the Renaissance retable by sculptor Nicolau Chanterène (chapel altarpiece) and the exotic furniture, which contribute to the prevailing air of decadence.

ROMANTICISM

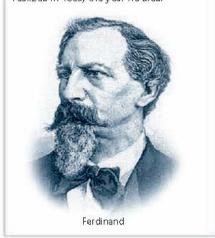
Sintra has long been regarded as an enchanting place of outstanding beauty, internationally revered by kings, noblemen, and artists. In 1809, the English poet Lord Byron described its verdant beauty as "glorious Eden," and further praise was given in Os Lusíadas, Portugal's celebrated 16th-century epic poem by Luís Vaz de Camões. The Palace of Pena's garish union of styles, including exotic Gothic traces, made it a forerunner of European Romanticism.Largely inspired by Bavarian palaces, Arab, Portuguese, German, Classical, and Romantic influences were combined to create a unique, and at times bizarre, effect. The surrounding grounds of the Parque da Pena are also of striking romantic beauty, filled with exotic trees and shrubs and containing the chalet Ferdinand had built for his mistress.

Palace of Pena, Sintra

On the highest peaks of the Serra de Sintra stands the spectacular Palace of Pena. This eclectic medley of architectural styles was built in the 19th century for the husband of the young Queen Maria II (r. 1834-53), Ferdinand of Saxe-Coburg-Gotha-King Dom Fernando II of Portugal. It stands over the ruins of a Hieronymite monastery founded here in the 15th century on the site of the chapel of Nossa Senhora da Pena. The outlandish rooms of the enchanting summer palace are filled with oddities from all over the world. The monarchy was overthrown in 1910 and with the declaration of the Republic, the palace became a museum, preserved as it was when the royal family lived here.

FERDINAND: KING CONSORT

Ferdinand was known in Portugal as "the artist king." Like his cousin Albert, who married Britain's Queen Victoria, he loved nature, art, and the new inventions of the time. Ferdinand enthusiastically adopted his new country and devoted his life to the arts. In 1869, 16 years after the death of Maria II. Ferdinand married his mistress. the opera singer Countess Edla. His lifelong dream of building the palace at Pena was realized in 1885, the year he died.



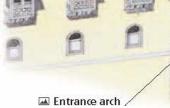
ENTERTAINMENT

The palace hosts a number of live events throughout the year. These include concerts of classical music, exhibitions, ballets, and historical plays performed by internationally acclaimed artistes.

This oval-shaped room is decorated with green walls and a stuccoed ceiling. A portrait of Manuel II, the last king of Portugal, hangs above the fireplace.







TO THE PROPERTY OF

A Triton Arch

KEY DATES

1400s

1839

Ferdinand of Saxe-Coburg-Gotha buys the ruins of the monastery with the intention of turning it

into a palace.

1840s

Baron von Eschwege puts the king's ideas into effect, preserving the original monastery cloister and chapel.

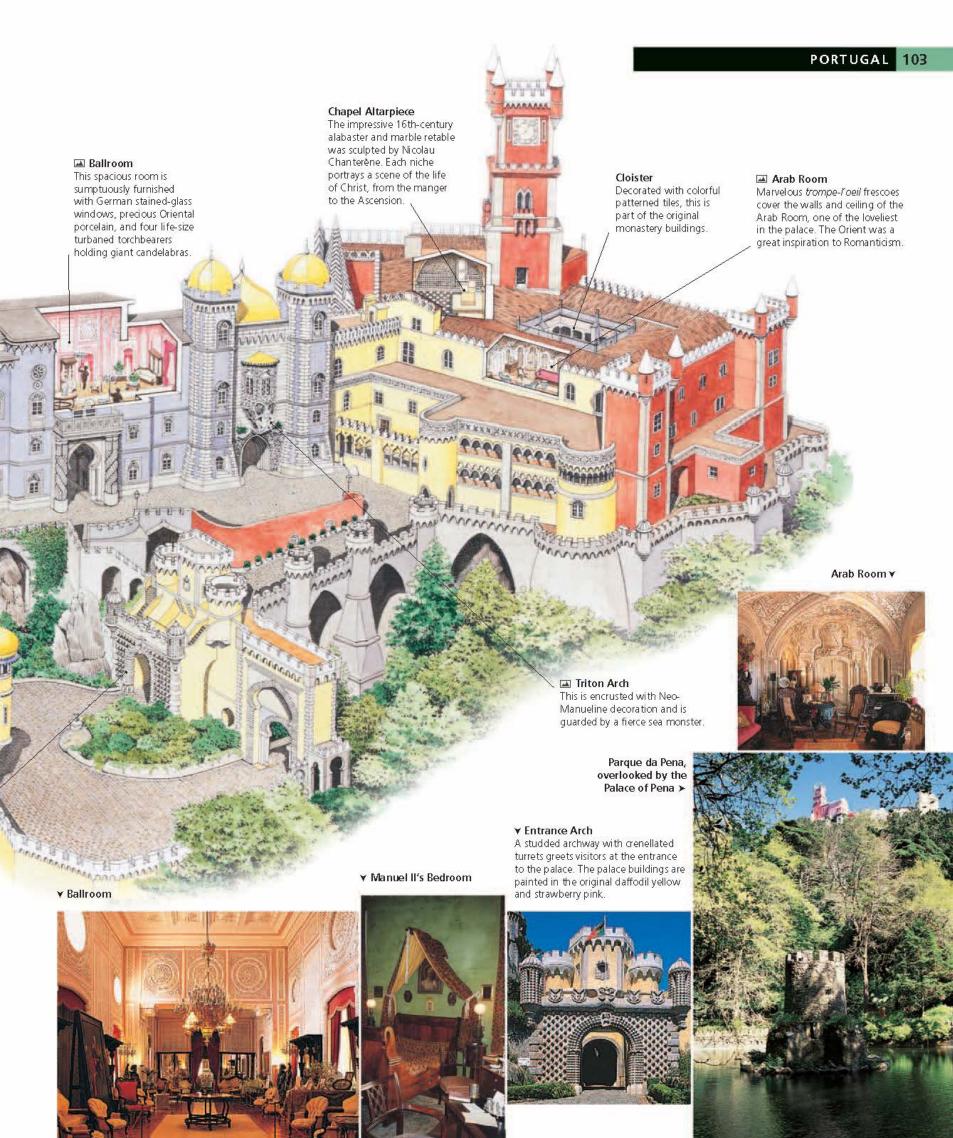
1910

The palace is classified as a national monument and opens to the public as a museum

The palace, along with the city of Sintra, are added to UNESCO's World Heritage list.

1995

The Hieronymite monastery of Nossa Senhora da Pena is founded here.





ST. JAMES THE GREAT

According to tradition, James returned to Jerusalem after preaching in Spain and was the first Apostle to be martyred. His body is thought to have been translated, some claim miraculously, to a burial site in Galicia. A bishop is said to have discovered the relics some 750 years later in 819, guided by a divine vision. A church was erected in St. James' honor on the sacred spot. The Moors destroyed Santiago in 997, yet the saint's tomb was spared (crypt). This, and subsequent Christian victories, led to St. James becoming Spain's patron saint, and forged the cathedral's reputation as one of Christendom's major pilgrimage sites.

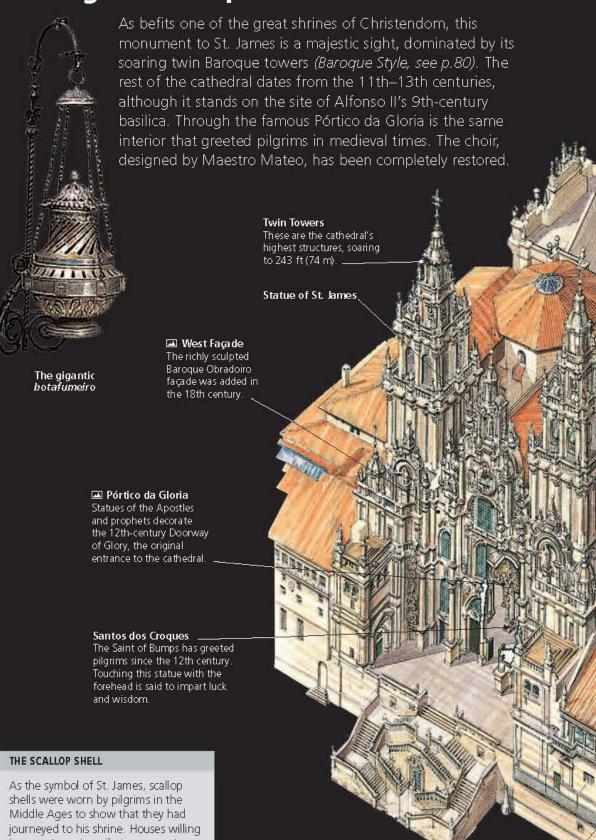
THE ROAD TO SANTIAGO

In the Middle Ages, 500,000 pilgrims a year flocked to the cathedral from all over Europe. Several pilgrimage roads converge on Santiago de Compostela. The various routes, marked by the cathedrals, churches, and inns built along them, are still used by travelers today; the main road from the Pyrenees is known as the French Route. To qualify for a certificate, pilgrims must produce a stamped and dated pilgrim passport and have covered the final 62 miles (100 km) on foot or horseback, or have cycled the last 125 miles (200 km).

PÓRTICO DA GLORIA

The Romanesque pillars, pointed arches, and ribbed vaulting (Romanesque Style, see p.122) of this doorway were carved in part by Maestro Mateo (the lintel of the central arch bears his signature and the date 1188). Its three arches are carved with almost 200 expressive biblical figures. Christ sits at the center, baring his wounds, flanked by his Apostles and the 24 Elders of the Apocalypse, who are carrying musical instruments. St. James is seated below Christ, perched before the richly sculpted central column. Several indentations are visible on this column, which also depicts the Tree of Jesse. These have been created by the millions of pilgrims who have touched this spot with their hands as a gesture of thanks for their safe journey. On the other side, pilgrims bend to rest their heads on the statue of the Santos dos Croques hoping to gain wisdom.

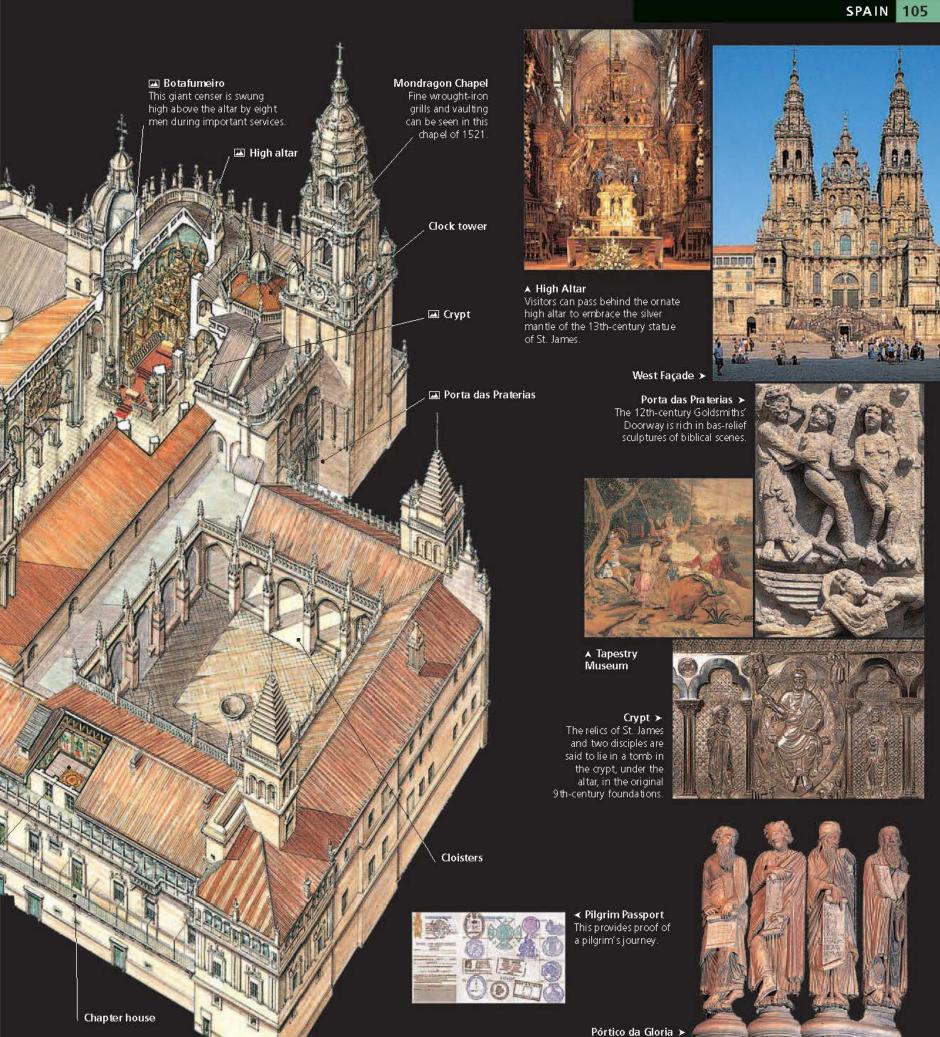
Santiago de Compostela Cathedral



to accept passing pilgrims en route hung shells over their doors.

KEY DATES				
1075	1750	1879	1985	
Work on the cathedral begins on the site of the church destroyed by the Moors.	The Baroque west façade of the building is completed.	St. James' remains, hidden in 1700, are rediscovered during building work.	The Old Town of Santiago is added to UNESCO's World Heritage Site list.	

Tapestry Museum Tapestries dating from the early 16th century are displayed in the museum above the chapter house and library. Some of the later tapestries are based on works by Goya.





FRANK O. GEHRY

Canadian-born architect Frank O. Gehry studied architecture at the University of Southern California and then urban planning at Harvard before setting up his own firm in 1962. His early work is notable for its use of unusual materials, including chain-link and corrugated metal. Later works have possessed an almost sculptural quality, made possible by computer design, creating distinctive, unique modern landmarks. During his career, Gehry has been awarded large-scale public and private commissions in the US, Japan, and Europe.

THE BUILDING

The Guggenheim is a breathtaking combination of curling fragmented shapes, limestone blocks, and glass walls and panels that beam light into the building. The central space (Atrium), one of the pioneering design features, is crowned by a metal dome and skylight. Framing this vast area is a futuristic vision of suspended curved walkways, glass lifts, and soaring staircases that lead to the 19 galleries. Ten of the galleries have a conventional rectangular form, and can be recognized from the outside by their stone finish. The other rooms are erratically shaped, and identified by their exterior titanium paneling (titanium façade). Volumes and perspectives have been manipulated throughout to blend the overall sculpted design with the surrounding landscape, referencing Bilbao's industrial past

THE COLLECTION

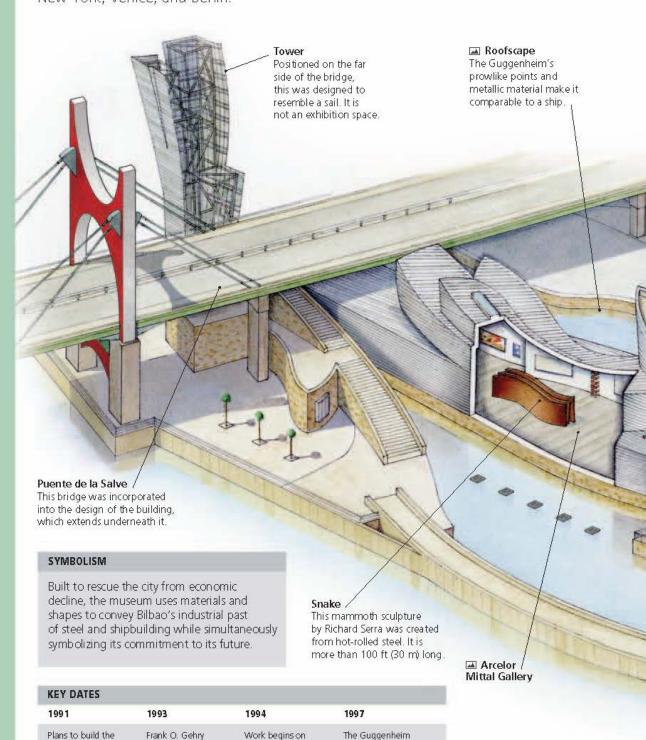
The collection is arranged over three levels around the Atrium, with Mark Rothko's *Untitled* (1952) marking the chronological start. It comprises works by significant artists of the late 20th century, ranging from the earliest avant-garde movements to present-day genres. The artists include Eduardo Chillida, Yves Klein, Willem de Kooning, Robert Motherwell, Clyfford Still, Antoni Tapies, and Andy Warhol. There are also artworks by emerging Basque and Spanish artists. The museum's own permanent collection is supplemented by important pieces from the Solomon R. Guggenheim Museum in New York and the Peggy Guggenheim Collection in Venice.

Guggenheim Museum, Bilbao

The jewel in Bilbao's revitalization program, the Museo Guggenheim unites art and architecture. The building itself is a star attraction: a mind-boggling array of silvery curves by the architect Frank O. Gehry, which are alleged to resemble a ship or flower. The Guggenheim's collection represents an intriguingly broad spectrum of modern and contemporary art, and includes works by Abstract Impressionists such as Willem de Kooning and Mark Rothko. Most of the art shown here is displayed as part of an ongoing series of temporary exhibitions and major retrospectives. Some of these are also staged at the Guggenheim museums in New York, Venice, and Berlin.



Architect Frank O. Gehry



presents his museum

design model.

museum are

approved.

the museum

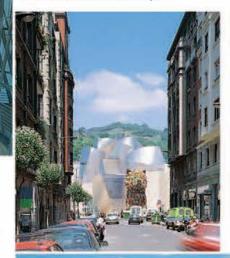
building.

Museum is opened to

the public.

▼ View from the City

Approaching from the Calle de Iparraguirre, the museum stands out amid more traditional buildings.



Arcelor Mittal Gallery >

Formerly known as the Fish Gallery because of its flowing, fishlike shape, this is the largest gallery in the museum. It is dominated by a series of steel sculptures by Richard Serra called Snake and The Matter of Time (right).

Second floor

balcony

🔺 Atrium

The space in which visitors to the museum first find themselves is the extraordinary 200-ft (60-m) high Atrium. It serves as an orientation point and its height makes it a dramatic setting for exhibiting large pieces.

A Atrium

Puppy American artist Jeff Koons created this sculpture of a dog with a coat of flowers irrigated by an internal system. Originally a temporary feature, its popularity earned it a permanent spot.



Main entrance

Restaurant

Designed and owned by star chef Martin Berasategui, this serves local specialties.

Titanium Façade ➤

Rarely seen in buildings, titanium is more commonly used for aircraft parts. In total, 60 tons were used, but the layer is only 0.1 inch (3 mm) thick.



Water Garden > On the west side of the museum,

a sweeping concrete promenade connects the Nervion River with a water garden.









MODERNISME

Toward the end of the 19th century, a new style of art and architecture, a variant of Art Nouveau, was born in Barcelona. Modernisme became a means of expression for Catalan nationalism and attempted to reestablish a local identity that had waned under the rule of Castilian Madrid. The style is characterized by curved lines and a profusive use of colored tiles and tiled mosaics. It counted Josep Puig i Cadafalch, Lluís Domènech i Montaner and, above all, Antoni Gaudí among its major exponents; the style's radical appearance is one of the principal attractions of Barcelona today.

ANTONI GAUDÍ

Born into a family of artisans, Antoni Gaudí (1852-1926) studied at Barcelona's School of Architecture. Inspired by a nationalistic search for a romantic medieval past, his work was supremely original. His most celebrated building is the Sagrada Família, to which he devoted his life from 1883. He gave all his money to the project and often went from house to house begging for more, until his death a few days after being run over by a tram. Gaudí designed, or collaborated on designs, for almost every known medium. He combined bare, undecorated materials—wood, rough-hewn stone, rubble, and brickwork—with meticulous craftwork in wrought iron and stained glass.

SYMBOLISM

Gaudí united nature and religion in his symbolic vision of the Sagrada Família. The church has three monumental façades. The east front (Nativity Facade) is directed toward the rising Sun and dedicated to the birth of Christ. Flora and fauna, spring and summer symbols, fruits, birds, and flowers adorn this façade. The west front (Passion Façade) represents Christ's Passion and death, with columns eerily reminiscent of bones combined with a lack of decoration to reflect the loss that death brings. The Glory Façade to the south has not yet been constructed, but is projected to be the largest of all. Gaudí intended the interior of the church to evoke the idea of a forest (nave). Columns are "planted" symbolically like tree trunks, and dappled light filters in through skylights.

Sagrada Família, Barcelona

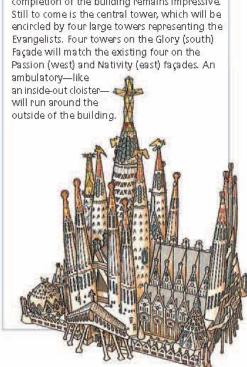
Europe's most unconventional church, the Temple Expiatori de la Sagrada Família is an emblem of a city that likes to think of itself as individualistic. Crammed with symbolism inspired by nature, and striving for originality, it is Antoni Gaudí's greatest work. In 1883, a year after building had begun on a Neo-Gothic church on the site (Gothic Style, see p.54), the task of completing it was given to Gaudí, who changed everything, extemporizing as he went along. It became his life's work; he lived like a recluse on the site for 16 years and was buried in the crypt. On his death, only one tower on the Nativity Façade had been completed, but work continued after the Spanish Civil War and several more have since been finished to his plans. Work continues today, financed by public subscription.



Stained-glass window

THE FINISHED CHURCH

Gaudi's initial ambitions have been scaled down over the years, but the design for the completion of the building remains impressive. Evangelists. Four towers on the Glory (south) Façade will match the existing four on the Passion (west) and Nativity (east) façades. An ambulatory-like an inside-out cloister-



Bell towers

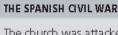
Tower with elevator

Apse

This was the first part of the church to be completed. Stairs lead down from here to the crypt below.

Altar Canopy

Designed by Gaudí, this is still waiting for the altar.



The church was attacked in 1936, during the Spanish Civil War (1936-39). The crypt and Gaudi's workshop were damaged by fire. The charred remains of site models and drawings are on display in the Crypt Museum.

Entrance to Crypt Museum

1954

KEY DATES 1882 Work begins Gaudi takes over as Gaudi begins the

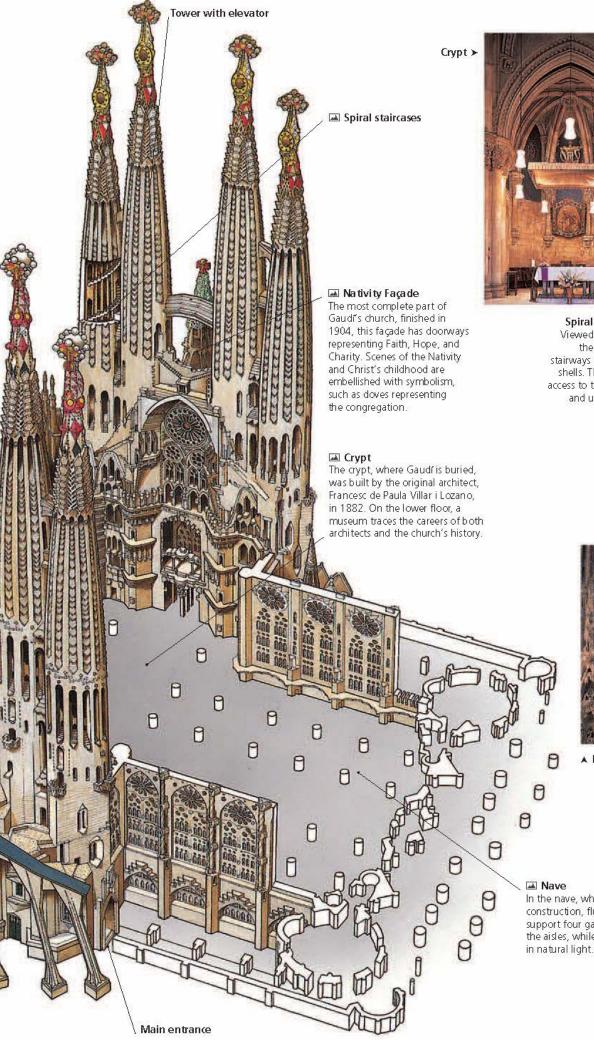
on a church in a traditional Neo-Gothic style

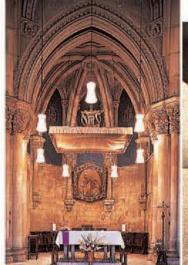
the lead architect and immediately changes the project. love of nature.

Nativity Façade, which reflects his Work resumes following the Civil War and continues to this day.

Passion Façade ,

This bleak façade was completed in the late 1980s by artist Josep Maria Subirachs. A controversial work, its sculpted figures, which represent Jesus' pain and sacrifice, are often angular and sinister.





Spiral Staircases > Viewed from the top, these spiral stone stairways resemble snail shells. The steps allow access to the bell towers and upper galleries.

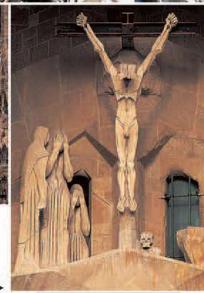




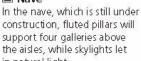
Nave >



▲ Nativity Façade



Passion Façade >



Bell Towers ➤ Eight of the 12 spires, one for each Apostle, have been built. They are topped by Venetian mosaics.



El Escorial, Madrid



≺ Museum of Art
Flemish, Italian, and Spanish
paintings are displayed in
the museum, located on
the first floor. One of the
highlights is The Calvary, by
15th-century Flemish artist
Rogier van der Weyden.

Felipe II's imposing gray palace of San Lorenzo de El Escorial stands out against the foothills of the Sierra de Guadarrama to the northwest of Madrid. It was built between 1563 and 1584 in honor of St. Lawrence, and its unornamented severity set a new architectural style that became one of the most influential in Spain. The interior was conceived as a mausoleum and contemplative retreat rather than a splendid residence. The palace's artistic wealth, which includes some of the most important works of art in the royal Habsburg collections, is concentrated in the museums, chapter houses, church, royal pantheon, and library. In contrast, the royal apartments are remarkably modest.



Fresco by Luca Giordano

Sala de Batallas



ST. LAWRENCE

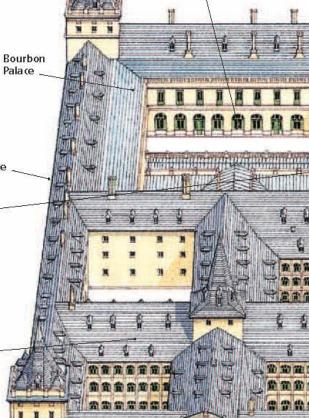
On August 10, 1557—St. Lawrence's Day—King Felipe II defeated the French in battle and immediately vowed to build a monastery in the saint's honor. El Escorial's shape, based on that of a gridiron, is said to recall the instrument of St. Lawrence's martyrdom.



A Basilica
The highlight of this huge decorated church is the lavish altarpiece. The chapel houses a superb marble sculpture of the Crucifixion by Cellini.



This was founded by monks in 1875 as a boarding school.



Architectural

museum

≺ Library

▼ Chapter Houses





≺ Royal Pantheon
The funerary urns of Spanish
monarchs line this octagonal
marble mausoleum.



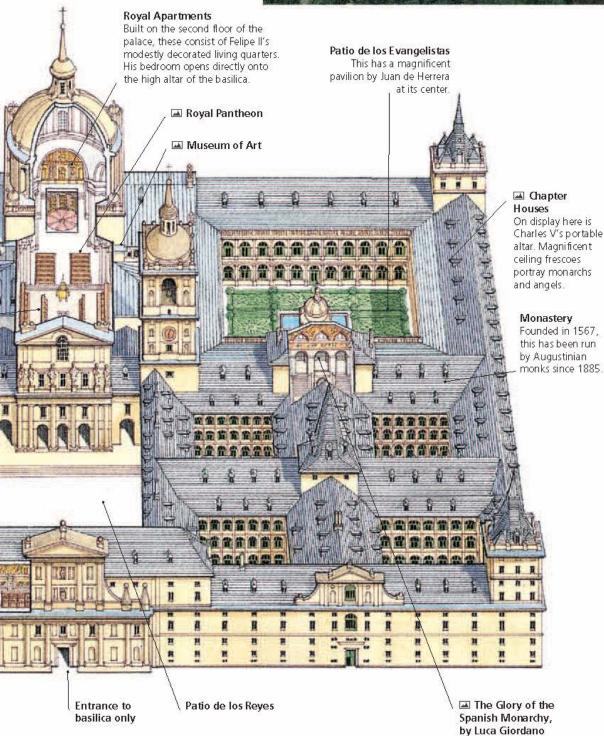
← The Glory of the Spanish Monarchy, by Luca Giordano

The library's impressive array of 40,000 books incorporates King Felipe II's personal collection. On display are precious manuscripts, including a poem by Alfonso X the Learned. The 16th-century ceiling frescoes are by Pellegrino Tibaldi (1527–96).

The building of El Escorial >

When chief architect Juan Bautista de Toledo died in 1567 he was replaced by Juan de Herrera, royal inspector of monuments. The plain architectural style of El Escorial is called desornamentado, which literally means "unadorned."





KEY DATES 1563 1581 1654 1984 The foundation Work on the stone of the basilica is finished. is completed. Heritage Site list.



THE LIBRARY

Established by Felipe II (r. 1556–98), this was Spain's first public library. In 1619, a decree was issued demanding that a copy of each new publication in the empire be sent here. At its zenith, it contained some 40,000 books and manuscripts. The long Print Room has a marble floor and a glorious vaulted ceiling. The ceiling frescoes depict Philosophy, Grammar, Rhetoric, Dialectics, Music, Geometry, Astrology, and Theology. The wooden shelving was designed by Juan de Herrera (1530–97). On the four main pillars are portraits of the royal house of Habsburg—Carlos I (Emperor Charles V), Felipe II, Felipe III, and Carlos II.

THE PANTHEONS

Directly beneath the high altar of the basilica is the **Royal Pantheon**, where almost all Spanish monarchs since Carlos I have been laid to rest. Adorned with black marble, red jasper, and Italian gilt bronze decorations, it was finished in 1654. Kings lie on the left of the altar and queens on the right. The most recent addition to the pantheon was the mother of Juan Carlos I in 2000. Of the eight other pantheons, one of the most notable is that of Juan de Austria, Felipe II's half-brother, who became a hero after defeating the Turks at the Battle of Lepanto in 1571. Also worth seeing is La Tarta, a white marble polygonal tomb resembling a cake, where royal children are buried.

THE BASILICA

This beautiful fresco, above

the main staircase, depicts Charles V and Felipe II, and

scenes of the building of

the monastery.

Historically, only the aristocracy were permitted to enter the basilica, and the townspeople were confined to the vestibule at the entrance. The basilica contains 45 altars. Among its highlights is the exquisite statue of Christ Crucified (1562) in Carrara marble by the Italian sculptor Benvenuto Cellini. It is found in the chapel to the left of the entrance, with steps leading up to it. On either side of the high altar, above the doors leading to the Royal Apartments, are fine gilded bronze cenotaphs of Charles V and Felipe II worshiping with their families. The enormous altarpiece was designed by Juan de Herrera with colored marble, jasper, gilt-bronze sculptures, and paintings. The central tabernacle took seven years to craft.



THE NASRID DYNASTY

The Reconquista—a series of campaigns by Christian kingdoms to recapture territory lost to the Moors since 711—started in northern Spain, arriving in Andalusia with a Christian victory in 1212. As the Christians infiltrated the Moorish empire, Granada became the principal Muslim stronghold in Spain. The Nasrids came to power in the kingdom of Granada in 1236, ushering in a prolonged period of peace and prosperity. Muhammad I, founder of the Nasrid dynasty, undertook the construction of the Alhambra and the Generalife in 1238, building a fortified complex of singular beauty that became the official residence of the Nasrid sultans. Granada finally fell in 1492 to Ferdinand and Isabella, the Catholic Monarchs.

THE GENERALIFE

Located west of the Alhambra, the Generalife was the country estate of the Nasrid kings. Here, they could escape the intrigues of the palace and enjoy the tranquillity high above the city. The name Generalife, or Yannat al Arif, has various interpretations, perhaps the most pleasing being "the garden of lofty paradise." The gardens, begun in the 13th century, have been modified over the years. They originally contained orchards and pastures for animals.

MOORISH ARCHITECTURE

The palaces of the Moors were designed with gracious living, culture, and learning in mind. Space, light, water, and ornamentation were combined to harmonious effect. The Alhambra has all the key features of Moorish architecture: arches, stuccowork, and ornamental use of calligraphy. The elaborate stuccowork (Sala de los Abencerrajes) typifies the Nasrid style Reflections in water, combined with an overall play of light, are another central feature. Water often had to be pumped from a source far beneath the palaces (Patio de los Leones). The Moors introduced techniques for making fantastic mosaics of tiles in sophisticated geometric patterns to decorate their palace walls. The word azulejo derives from the Arabic for "little stone." Exquisite azulejos, made of unicolored stones, can be seen throughout the Alhambra complex.

The Alhambra, Granada

A magical use of space, light, water, and decoration characterizes this most sensual piece of Moorish architecture. The Islamic Moors first arrived in Spain in 710. By the late 13th century, only the Nasrid kingdom of Granada remained under their control, and the Alhambra is the most remarkable structure to have survived from this period. Seeking to belie an image of waning power, the Moors created their idea of paradise on Earth in this palace-fortress. Modest materials were used, but they were superbly worked. Restored in the late 1800s after centuries of neglect and pillage, the

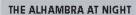
Alhambra's delicate craftsmanship dazzles the eye.

Patio de Machuca

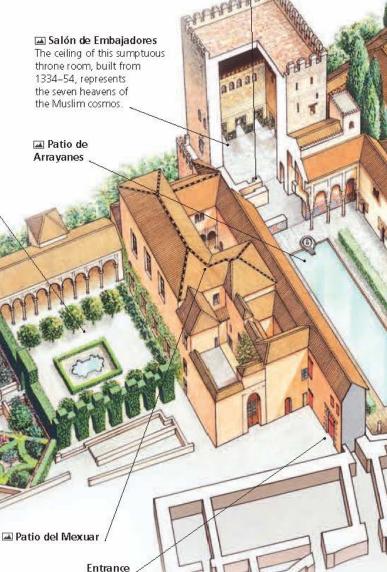


Sala de los Reyes

Sala de la Barca



Night visits provide a magical view of the Alhambra complex, when subtle, indirect lighting contrasts with the bright city lights. Nocturnal visits only give access to the outdoor areas of the Nasrid palaces.



KEY DATES					
1236	12 38	1492	1984		
The Nasrid dynasty comes to power in the sole remaining Islamic state in Spain, the Kingdom of Granada.	Construction of the Alhambra palace complex begins under the first Nasrid ruler.	The Nasrid dynasty surrenders to the Catholic Monarchs during the Reconquista.	The Alhambra and the Generalife are added to UNESCO's World Heritage list.		



A Palacio del Partal

A pavilion with an arched portico and a tower is all that remains of this palace, the oldest building in the Alhambra.

> Washington Irving's Apartments The celebrated American author wrote

his Tales of the Alhambra (1832) here.

Baños Reales



Patio de los Leones

Built by Muhammad V (1354-91), this patio is lined with arcades supported by 124 slender marble columns. At its center, a fountain rests on 12 marble lions.

Jardín de

Lindaraja

Patio de los Leones

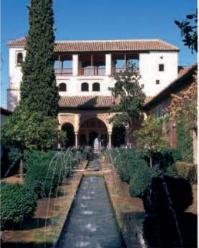
Sala de los Reyes

Sala de los Abencerrajes

This great banqueting hall was used to hold extravagant parties and feasts. Beautiful ceiling paintings on leather, from the 14th century, depict tales of hunting and chivalry.

Puerta de la Rawda

Sala de las Dos Hermanas With its honeycomb dome, the Hall of the Two Sisters is regarded as the ultimate example of Spanish-Islamic architecture.



A Patio de la Acequia, Generalife

Palacio del Partal



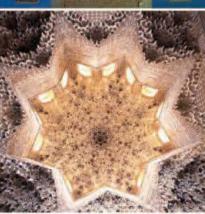
Y Patio de Arrayanes

surrounding halls.

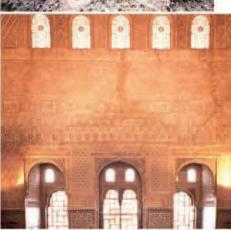
This pool, set amid myrtle hedges and graceful arcades, reflects light into the

Sala de los Abencerrajes > This hall takes its name from

a noble family that was the rival of the Nasrid sultan Boabdil. According to legend, he had them massacred while they attended a banquet here. The geometrical ceiling pattern was inspired by Pythagoras' theorem.

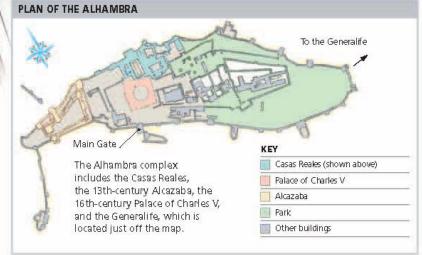


Salón de Embaja dores >



Palace of Charles V

Built in 1526, this houses a collection of Spanish-Islamic art, the highlight of which is the Alhambra vase.



Patio del Mexuar >

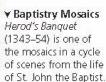
This council chamber, completed in 1365, was where the reigning Nasrid sultan heard the petitions of his subjects and held meetings with his ministers.



A St. Mark and Angels The statues crowning the central arch are additions from the early 15th century.



≺ Horses of St. Mark





¥ One of the ornate, jeweled panels from the Pala d'Oro

St. Mark's Basilica, Venice

This stunning basilica, built on a Greek-cross plan and crowned with five huge domes, clearly shows the influence of Byzantine architecture (Byzantine Style, see p. 148), which had been brought to Venice via the city's extensive links with the East. The present basilica is the third church to stand on this site. The first, built to enshrine the body of St. Mark, was destroyed by a fire. The second was pulled down in the 11th century to make way for a more spectacular edifice, built to reflect the escalating power of the Venetian Republic. In 1807, St. Mark's succeeded San Pietro in the administrative district of Castello as the cathedral of Venice; it had until then served as the doge's chapel for state ceremonies.

Pentecost Dome

This was probably the first dome to be decorated with mosaics. It shows the Descent of the Holy Ghost as a dove.

St. Mark and Angels

Museo Marciano

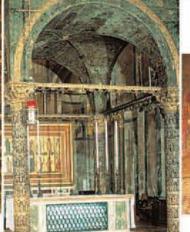
Horses of St. Mark

These four horses are replicas of the gilded bronze originals, now protected inside the Museo Marciano.



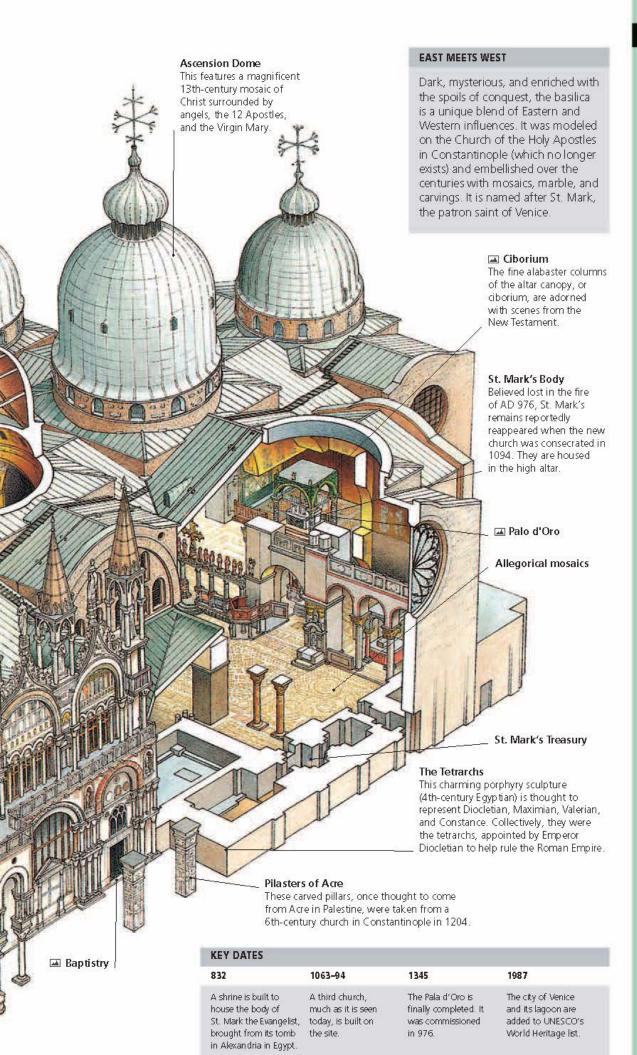
A Central Doorway Carvings
The central arch features
13th-century carvings of the
Labors of the Month.







This 17th-century mosaic shows the smuggling out of Alexandria of St. Mark's remains, reputedly under slices of pork to get them past the Muslim guards.





PALA D'ORO

The most valuable treasure held in St. Mark's Basilica is the **Pala d'Oro** (Golden Altar Screen). This jewel-spangled altarpiece is situated behind the high altar, beyond the chapel of St. Clement. The Pala consists of 250 enamel paintings on gold foil, enclosed within a silvergilt Gothic frame. The subjects include scenes from the life of Christ and the life of St. Mark. Begun in Byzantium in 976, the altarpiece was enlarged and embellished over the centuries. Following the fall of the Venetian Republic in 1797, Napoleon removed some of the precious stones, but the screen still gleams with jewels such as pearls, rubies, sapphires, and amethysts.

ST. MARK'S TREASURY

Although **St. Mark's Treasury** was plundered after the Napoleonic invasion in the late 18th century, and much depleted by a fundraising sale of jewels in the early 19th century, it nevertheless possesses a precious collection of Byzantine silver, gold, and glasswork. Today, the treasures, 283 pieces in all, are mainly housed in a room with remarkably thick walls believed to have been a 9th-century tower of the original Doge's Palace. A dazzling array of exhibits by Byzantine and Venetian craftsmen includes chalices, goblets, reliquaries, two intricate icons of the Archangel Michael, and an 11th-century silver-gilt reliquary made in the form of a five-domed basilica.

ST. MARK'S MUSEUM

A stainway from the basilica's atrium leads up to the Museo Marciano, or church museum. The original Horses of St. Mark—which stood on the basilica's façade for centuries before being replaced by the replicas seen today—are housed here. Stolen from the Hippodrome (and ancient racecourse) in Constantinople (now Istanbul) in 1204, their origin, either Roman or Hellenistic, remains a mystery. Also on display are Paolo Veneziano's 14th-century Pala Feriale, painted with stories from the life of St. Mark, medieval illuminated manuscripts, fragments of ancient mosaics, and antique tapestries. There are splendid views of the basilica's interior from the museum's gallery and the Piazza San Marco can be seen from the external loggia







SALA DEL CONSIGLIO DEI DIECI

This was the meeting room of the immensely powerful Council of Ten, founded in 1310 to investigate and prosecute people for crimes concerning the security of the state. Napoleon pilfered some of the paintings by Paolo Veronese from the ceiling, but two of the finest found their way back in 1920: Age and Youth and Juno Offering the Ducal Crown to Venice (both 1553-54). Offenders awaited sentence in the nearby room, the Sala della Bussola. In the same room is a bocca di leone (lion's mouth), used to post secret denunciations, one of several in the palace. Convicts were sent across the Bridge of Sighs for incarceration.

THE BRIDGE OF SIGHS

According to legend, the Bridge of Sighs, built in 1600 to link the Doge's Palace with the new prisons, takes its name from the lamentations of the prisoners as they made their way over to the offices of the feared State Inquisitors. Just below the leaded roof of the Doge's Palace are the piombi cells. Prisoners held here were more comfortable than those in the pozzi cells in the dungeons at ground level. One of the more famous inmates was the Venetian libertine Casanova, who was incarcerated here in 1755. He made a daring escape from his cell in the piombi through a hole in the roof.

CHOOSING A DOGE

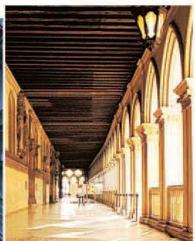
The Doge's Palace was the Venetian Republic's seat of power, and home to its rulers. New doges were nominated in the Sala dello Scrutinio, and were chosen from the members of the Maggior Consiglio, Venice's Great Council. A lengthy and convoluted system was used to count votes during dogal elections: a method designed to prevent candidates from bribing their way to power. Once elected, a doge occupied the post for the rest of his lifetime, but numerous restrictions were placed on him in an attempt to prevent him from exploiting his position. Despite the precautions, many doges met their deaths in office, or were sent into exile for activities such as conspiring against the state. Others survived in office for many years: the diplomat doge Leonardo Loredan ruled for 20 years.

Doge's Palace, Venice

At the heart of the powerful Venetian Republic, the magnificent Doge's Palace was the official residence of the doge (ruler). Originally built in the 9th century, the present palace dates from the 14th and early 15th centuries and is adorned with glorious paintings and sculptures. To create their airy Gothic masterpiece (Gothic Style, see p.54), the Venetians perched the bulk of the palace (built in pink Veronese marble) on top of an apparent fretwork of loggias and arcades (built from white Istrian stone).

¥ Loggia

¥ The Bridge of Sighs. with the Ponte della Paglia beyond.



gate is the principal

From it, a vaulted

Main entrance

Arco Foscari and the internal courtyard.



A Torture Chamber



Mars, by Sansovino

Scala dei Giganti The 15th-century Giant's Staircase is crowned by Jacopio Sansovino's huge statues of Mars and Neptune,

symbols of Venice's power. Arco Foscari This triumphal arch features copies of Antonio Rizzo's 15th-century marble statues

of Adam and Eve



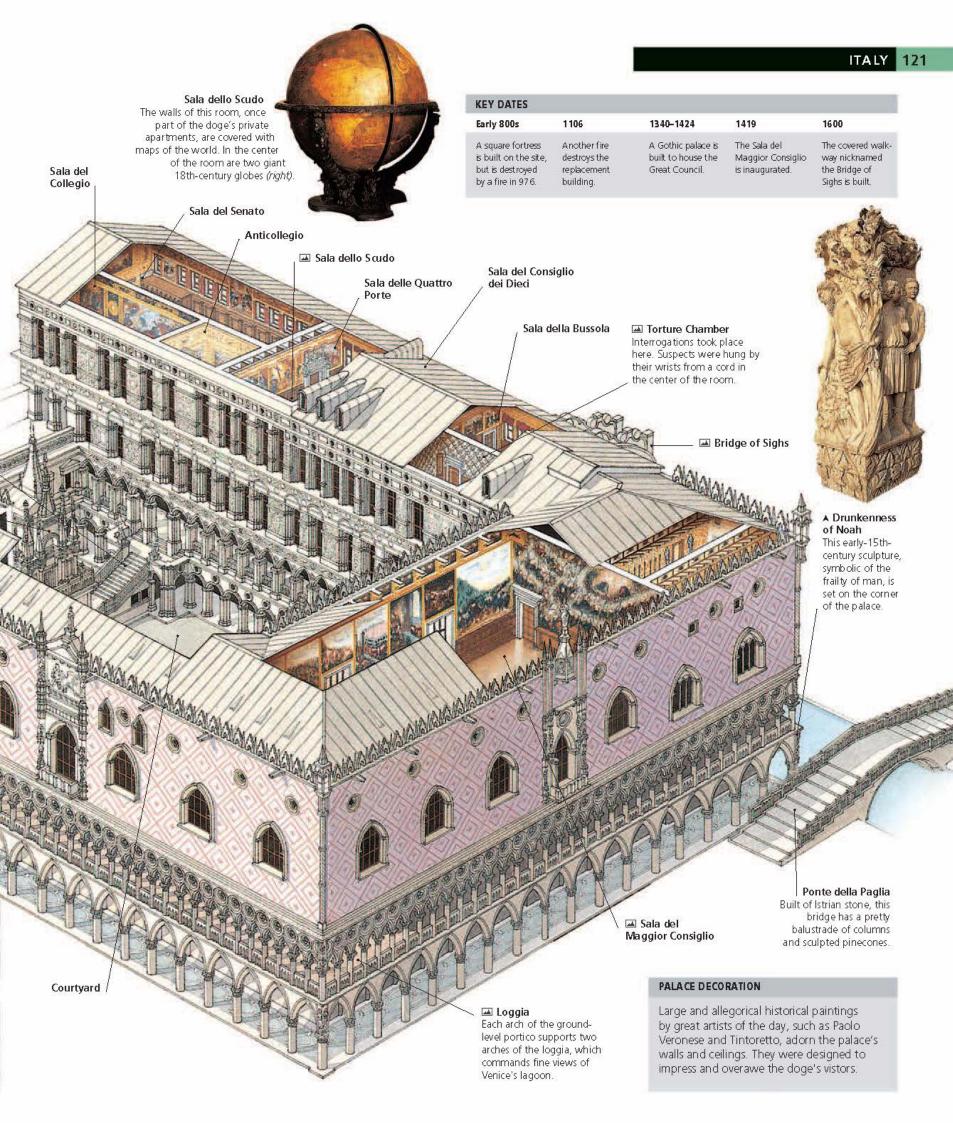








Porta della Carta >





ROMANESQUE STYLE

When Charlemagne was crowned emperor of the Holy Roman Empire in 800, he encouraged an ambitious wave of church-building throughout Western Europe. Massive vaults and arches, characteristic of ancient Roman architecture, were combined with elements from Byzantium and the Middle East, and from the Germans, Celts, and other northern tribes in Western Europe. This fusion created a number of local styles known as Romanesque, meaning "in the manner of the Roman." Romanesque buildings are characterized by their vast size, sturdy piers, and semicircular arches. Decoration is carved into the structural fabric, rather than painted on. An important innovation was the replacement of timber construction with stone vaulting, which increased resistance to fire.

CARRARA MARBLE

The fine, snow-white marble quarried in Massa-Carrara province in Tuscany was the stone of choice for many Italian sculptors and architects during the Renaissance. Carrara marble was a great favorite of Michelangelo and many of his most famous works are sculpted from it. The 300 or so quarries, located near the city of Carrara, date back to Roman times, making this the world's oldest industrial site in continuous use. In Carrara itself today there are showrooms and workshops where the marble is worked into sheets or made into ornaments. The house in which Michelangelo stayed when buying marble is marked by a plaque.

THE LEANING TOWER OF PISA

The tower is not the only leaning building on this site: the shallow foundations and sandy silt subsoil create problems for all of the structures. However, none tilts so famously as the **Leaning Tower**. The tower began to tip sideways even before the third story was finished. Despite this, construction continued until the tower's completion in 1350, when the addition of the bell chamber brought its total height to 179 ft (54.5 m). Recent engineering interventions have corrected the tilt by 15 inches (38 cm). Measures adopted included the use of counterweights and the introduction of ten anchors. The tower was reopened in 2001.

Campo dei Miracoli, Pisa



Carved support, Duomo pulpit

The Triumph of Death

Pisa's world-famous Leaning Tower is just one of the splendid buildings rising from the lawns of the "Field of Miracles." It is joined by the Duomo, a triumph of marble decoration; Italy's largest baptistry, with an acoustically perfect interior; and the Campo Santo cemetery, containing Roman sarcophagi and sculptures. The buildings combine Moorish elements, such as inlaid marble in geometric patterns (arabesques), with delicate Romanesque colonnading and spiked Gothic niches and pinnacles.

Capella del Pozzo

This domed chapel

was added in 1594

PISAN ARCHITECTURE

The Romanesque architectural style of Pisa, with its tiers of open colonnades on a background of marble and arcaded themes, was to spread widely, and examples can be found throughout Italy and as far afield as Zadar in Croatia.

Campo Santo

This former cemetery was built in 1278 around soil brought back from the Holy Land. Once decorated with extensive frescoes, it was the burial place of Pisa's wealthy for centuries.

These late 14th-century frescoes depict various allegorical scenes, including a knight and a lady overwhelmed by the stench of an open grave.



≺ Baptistry Pulpit
by Nicola Pisano
This great marble pulpit,
completed in 1260, is
carried with lines access.

The property of the pulpit of the pulpi

Upper gallery

carved with lively scenes from the life of Christ.



KEY DATES

1064 1152

The foundation stone of the Duomo is laid.

Building work begins on the Baptistry. Construction starts on the Leaning Tower.

1173

Nicola Pisano completes the marble Baptistry pulpit.

1260

Giovanni Pisano finishes sculpting the Duomo pulpit.

1311

The Campo dei Miracoli is declared a UNESCO World Heritage Site.

Duomo Façade ¥

1987

▲ Detail from The Triumph of Death frescoes

Marble Floor

the dome.

Fragments of the

11th-century marble

floor survive beneath

Frescoes
These were added to
the dome's interior after
a fire in 1595.

Leaning Tower

This bell tower in the Pisan-Romanesque style was completed in 1350, when its seven bells were hung.

Portale di San Ranieri

Colored sandstone, glass, and majolica plates decorate the Lombard-style, 12th-century façade. Its patterned surface includes knots, flowers, and animals in inlaid marble.





Frieze This indicates that

Campo Santo >

work began on the tower in 1173.

■ Duomo Pulpit

The carved supports for Giovanni Pisano's pulpit (1302–11) symbolize the Arts and Virtues.

Duomo façade

Baptistry >

The Baptistry started life as a Romanesque structure (1153), but it has a Gothic dome. The plain interior has a Gothic pulpit and baptismal font.



The Duomo's walls are decorated with horizontal layers of white and gray marble.

Twelfth-century Wall Tomb

Buscheto, the Duomo's original architect, is buried in the last blind arch on the left side of the façade.



Portale di San Ranieri >

Bonanno Pisano's bronze panels for the Duomo's south transept doors depict the life of Christ. Palm trees and Moorish buildings show Arabic influence.







THE CATHEDRAL WORKS MUSEUM

This informative museum consists of a series of rooms dedicated to the history of the cathedral. The main ground floor room contains statues from Arnolfo di Cambio's workshop, which once occupied the cathedral's niches. Nearby is Donatello's St. John, and Michelangelo's Pietà can be seen on the staircase. The upper floor contains two choir lofts from the 1430s by Luca della Robbia and Donatello. The haunting statue La Maddalena is also by Donatello.

EAST DOORS OF THE BAPTISTRY

Lorenzo Ghiberti's famous bronze Baptistry doors were commissioned in 1401 to mark the city's deliverance from the plague. Ghiberti was chosen for the project after a competition involving seven leading artists of the day, including Donatello, Jacopo della Quercia, and Brunelleschi. The trial panels by Ghiberti and Brunelleschi are so different from the Florentine Gothic art of the time, notably in the use of perspective and individuality of figures, that they are often regarded as the first works of the Renaissance. Michelangelo enthusiastically dubbed the East Doors the "Gate of Paradise." Ghiberti worked on them from 1424 to 1452, after spending 21 years on the North Doors. The original relief panels are now on display in the Museo dell'Opera del Duomo.

BRUNELLESCHI'S DOME

A stunning feat of technical as well as artistic skill, the cathedral's dome is the epitome of Florentine Renaissance architecture (Renaissance Style, see p. 131). Construction took more than 14 years, and only began after a lengthy period of planning and modelbuilding, during which the dome's architect, Filippo Brunelleschi (1377-1446), worked hard to convince the sceptics that the project was feasible. At one point, he even built a largescale model by the river to demonstrate that the dome was technically achievable. The dome spans 140 ft (43 m) and is not buttressed; instead, a double wall of spirally laid bricks was strengthened by the use of stone chains. Despite his brilliance as an engineer and architect, Brunelleschi was not made chief architect until 1445, a year before his death

Cathedral and Baptistry, Florence

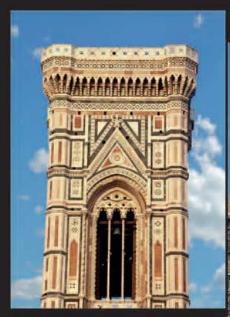
Rising above the heart of the city, this richly decorated cathedral (Santa Maria del Fiore) and its massive dome have become Florence's most famous symbols. Typical of the Florentine determination to lead in all things, the cathedral is still the Tuscan city's tallest building, and Europe's fourthlargest church. The Baptistry, with its celebrated bronze doors and host of mosaic panels inside, is one of Florence's oldest buildings. The Campanile, designed by Giotto in 1334, was finally completed in 1359, 22 years after his death.



Sir John Hawkwood, by Paolo Uccello, in the cathedral

≺ Chapels at the East End

The three apses have five chapels each and are crowned by smaller copies of the dome. The 15th-century stained glass is by Ghiberti.

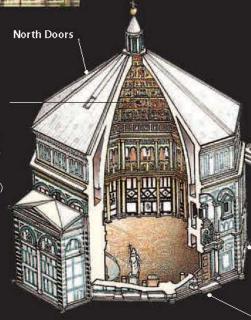


At 278 ft (85 m), the Campanile is 20 ft (6 m) shorter than the dome It is clad in white, green, and pink Tuscan marble.



< Baptistry Colorful 13th-century mosaics

depicting the Last Judgment decorate the ceiling above the octagonal font, where many famous Florentines, including Dante, were baptized. The doors are by Andrea Pisano (south) and Lorenzo Ghiberti (north and east).



KEY DATES

c. 1059-1150 1294-1302 1334-59 1875-87

Probable construction of the current Baptistry in the Florentine Romanesque style

Building work begins on the cathedral, to a design by Arnolfo di Cambio

The Campanile is built, supervised by Giotto, Andrea Pisano and Francesco Talentii

The Neo-Gothic façade is added, designed by Emilio de Fabris and Augustino Conti

The cathedral and Baptistry are declared a UNESCO World Heritage Site.

CLASSICAL INSPIRATION

Brunelleschi was inspired by the purity and simplicity of Classical Roman building's (Classical Style, see p.137). His first work, the elegantly arched loggia of the Ospedale degli Innocenti in Florence, reflects this style.

Gothic windows

Neo-Gothic Marble Façade This echoes the style

of Giotto's Campanile, but was only added in 1871–87.

Main / entrance

East Doors

South Doors

■ Dante Explaining the Divine Comedy

The top of the dome

offers spectacular views over the city

without scaffolding . The outer shell is supported by a thicker inner shell that acts as a platform for it.

Brunelleschi's dome, finished in 1436,

was the largest of its time to be built

Dome

Dome Frescoes

In the late 16th century, the dome's interior was covered in frescoes depicting scenes from the Last Judgment. They were started by Giorgio Vasari and completed by Federico Zuccari.

Bricks

These were set between marble ribs in a self-supporting herringbone pattern—a technique Brunelleschi copied from the Pantheon in Rome

> Chapels at the East End

Dante Explaining the Divine Comedy ▼ This painting (1465)

by Domenico di Michelino shows the poet outside Florence against a backdrop of Purgatory, Hell, and Paradise.

Entrance . leading to the dome

 Marble floor

Sanctuary

The marble sanctuary around the high altar was created by Baccio Bandinelli in 1555

▼ Campanile Reliefs

Copies of reliefs by Andrea Pisano on the Campanile's first level depict the Creation of Man, and the Arts and the Industries. The originals are kept in the Museo dell'Opera del Duomo





The colorful, intricately inlaid floor (16th century) was designed in part by Baccio d'Agnolo and Francesco da Sangallo



Campanile reliefs







▲ View of the Basilica and Friary

For centuries, Assisi has been dominated by the humble figure of St. Francis, whose followers have filled the beautiful medieval hilltown with churches, monasteries, and shrines.

∢ Façade

The façade and its rose window are early examples of Italian Gothic architecture.



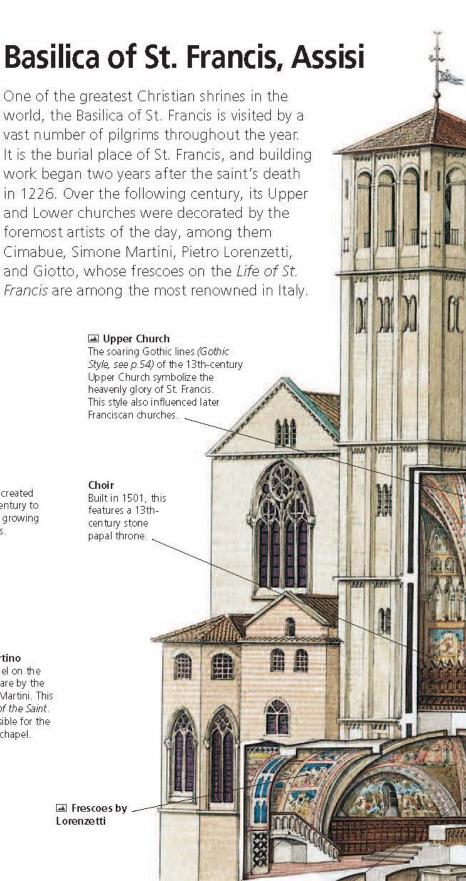
✓ Lower Church

Side chapels were created here in the 13th century to accommodate the growing number of pilgrims.



∢ Cappella di San Martino

The frescoes in this chapel on the Life of St. Martin (1315) are by the Sienese painter Simone Martini. This panel shows the Death of the Saint. Martini was also responsible for the fine stained glass in the chapel.



▼ Upper Church





✓ Frescoes by Lorenzetti

Steps to the Treasury

■ Lower Church

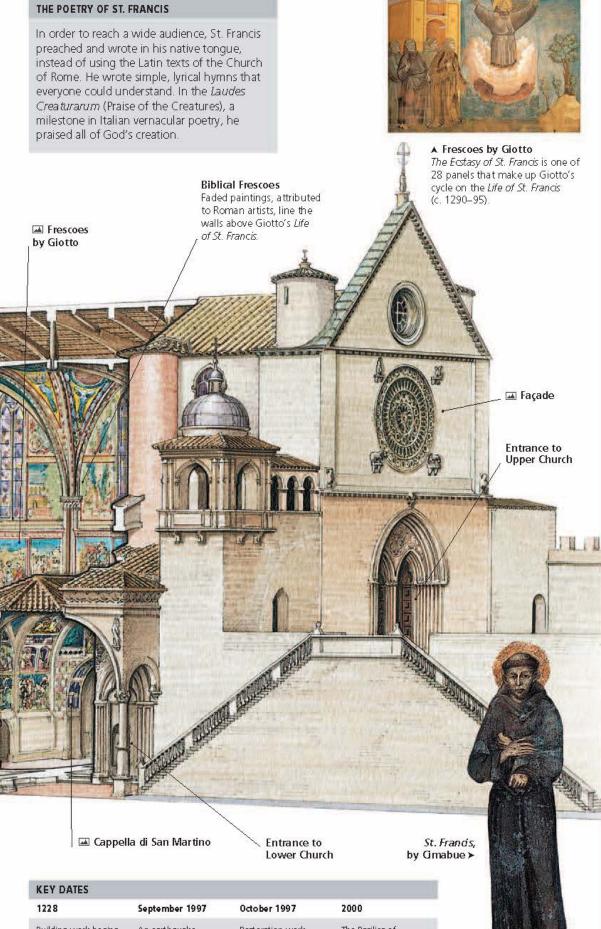
The bold composition of Pietro Lorenzetti's The Deposition (1323) is based around the truncated Cross and focuses the viewer's attention on the twisted figure of Christ. Crypt / This contains the tomb of St. Francis, who was buried here in 1230. ✓ St. Francis

Cimabue's simple
painting (c. 1280)
captures the humility

of the revered saint.

Campanile This was built

in 1239.



Building work begins on the Upper and Lower churches of the Basilica of St. Francis.

An earthquake damages the basilica; the vault collapses and frescoes in the Upper Church are shattered.

Restoration work begins on the basilica. It is completed in November 1999.

The Basilica of St. Francis is added to UNESCO's list of World Heritage Sites



ST. FRANCIS

The highly revered St. Francis was born in Assisi in 1182 to a rich family. During his mid-20s, he decided to reject his family's wealth and live a life of poverty, chastity, meditation, and prayer. He looked after the sick and extended his care to birds and animals. His humble spirituality soon attracted numerous followers and he established a religious order, the Friars Minor, in 1209. The order was orally recognized by Pope Innocent III the same year, and in 1223, it was officially confirmed by Pope Honorius III. A Franciscan order of nuns, the Poor Clares, was founded in 1215. St. Francis died in Assisi in 1226 and was canonized two years later. He was made the patron saint of Italy in 1939.

THE EARTHQUAKES OF 1997

In 1997, two strong earthquakes hit Umbria, leaving 11 people dead and tens of thousands homeless. A large number of centuries-old buildings were also badly damaged. The eastern part of the province was the most affected, with the basilica in Assisi suffering the worst structural upheaval. In the **Upper Church**, the vaults in the two bays collapsed, shattering ancient frescoes by Cimabue, and others attributed to Giotto. However, the great St. Francis cycle (**frescoes by Giotto**) survived, as did the stained-glass windows. Painstaking restoration followed, and the church reopened to the public in November 1999.

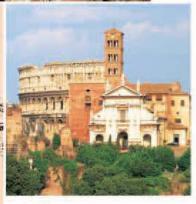
GIOTTO'S FRESCOES

The work of the great Tuscan architect and artist Giotto di Bondone (1267–1337) is often seen as the inspirational starting point for Western painting. He broke away from the ornate, but highly formalized, Byzantine style to visualize naturalness and human emotions, placing three-dimensional figures in convincing settings. The St. Francis cycle was painted "alfresco" by spreading paint onto a thin layer of damp, freshly laid plaster. Pigments were drawn into the plaster by surface tension and the color became fixed as the plaster dried. The pigments reacted with the lime in the plaster to produce strong, rich colors. The technique is not suited to damp climates, but had been used for centuries in hot, dry Italy

▲ Outer Wall of the Colosseum







▲ Looking across the ancient Forum to the Colosseum in Rome

◄ Colossus of Nero

The Colosseum may have acquired its name from this huge gilt-bronze statue, which stood near the amphitheater.

Colosseum, Rome

Rome's great amphitheater was commissioned by the Emperor Vespasian in AD 72 on the marshy site of a lake in the grounds of Nero's palace, the Domus Aurea. Deadly gladiatorial combats and wild animal fights were staged free of charge by the emperor and wealthy citizens for public viewing. The Colosseum was built to a practical design, with its 80 arched entrances allowing easy access for 55,000 spectators, but it is also a building of great Classical beauty (Classical Style, see p.137). The drawing here shows how it looked at the time of its inauguration in AD 80. It was one of several similar amphitheaters built in the Roman Empire, and some survive—at El Djem in North Africa, Nîmes, and Arles in France and Verona in northern Italy. Despite being damaged over the years by neglect and theft, it remains a majestic sight.



Vespasian, founder of the Colosseum

Vomitorium

Vomitoria were wide corridors situated below or behind a tier of seats, through which thousands of spectators could file in and out quickly.

∢ Internal Corridors

Outer Wall

Stone plundered from the façade during the Renaissance was used to build several palaces and bridges, and part of St. Peter's.

◆ Beneath the Arena

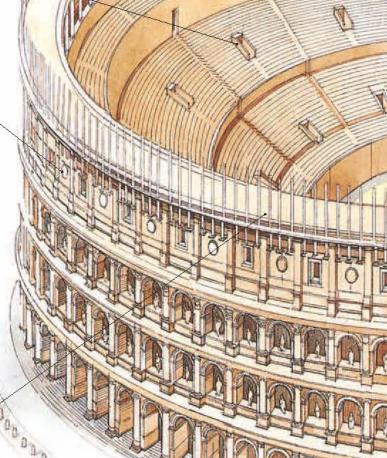
In the late 19th century, excavations exposed the network of underground rooms where the animals were kept.



These anchored the velarium.

Velarium

This huge awning shaded spectators from the sun. Supported on poles fixed to the upper story of the building, it was hoisted into position with ropes anchored to bollards outside the stadium.



KEY DATES

AD 72 The Colosseum is commissioned by

Emperor Vespasian.

81-96 The amphitheater

Games are held to mark the 1,000th is completed during the reign of Emperor anniversary of Domitian Rome's founding.

248

Rome's historic center is added to UNESCO's World Heritage list

1980

A GLADIATOR'S LIFE

Gladiator fights were not mere brawls, but professional affairs between trained men. Gladiators lived and trained in barracks and a range of different fighting styles was practiced, each with its own expert coach. Larger barracks had a training arena where men could get used to fighting in front of noisy spectators.



Gladiators fought one-to-one, as shown in this graffiti from the Colosseum. A secutor gladiator carrying a short sword is pitched against a retiarius gladiator armed with a trident and a net.

■ Internal Corridors

These were designed to allow the large and often unruly crowd to move freely and to be seated within 10 minutes of arriving at the Colosseum.

Inner Walls

These were formed of brick.

Entry Routes

Used to take the spectators to their seats, these were reached by means of staircases to the various levels of the amphitheater.

Podium

This large terrace was where the emperor and the wealthy upper classes had their seats.

Corinthian columns

Ionic columns

Doric columns

Arched Entrances

All 80 entrances were numbered. Each spectator had a fessera (small square tile) with an entrance number stamped on it.

FLORA OF THE COLOSSEUM

By the 19th century, the Colosseum was heavily overgrown. Different microclimates in various parts of the ruins had created an impressive variety of herbs, grasses, and wild flowers. Several botanists were inspired to study and catalog them and two books were published, one listing 420 different species.





GLADIATORIAL FIGHTS IN THE ARENA

The emperors of Rome held impressive shows, which often began with animals performing circus tricks. Then, on came the gladiators, who fought each other to the death. Gladiators were usually slaves, prisoners of war, or condemned criminals. When one was killed, attendants dressed as Charon, the mythical ferryman of the dead, carried his body off on a stretcher and sand was raked over the blood in preparation for the next bout. A badly wounded gladiator would surrender his fate to the crowd. The "thumbs-up" sign from the emperor meant he could live, while "thumbsdown" meant that he would die. The victor in a gladiator fight became an instant hero and was sometimes rewarded with freedom.

EMPEROR VESPASIAN

Titus Flavius Vespasianus (Founder of the Colosseum) was Roman emperor for a decade from AD 69. At that time, Rome was in complete disarray, the legacy of Emperor Nero's reign. Vespasian's rule is noted for the stability and relative peace he brought to the empire. He instigated a number of building projects, including a temple dedicated to Claudius on the Celian Hill; a Temple of Peace near the Forum; and, most famously, the Colosseum. At the time of his death in 79, the amphitheater was still incomplete, and it was left to his sons and successors, Titus and Domitian, to finish the work.

INSIDE THE COLOSSEUM

The stadium was built in the form of an ellipse, with tiers of seats around a vast central arena. The different social classes were segregated, and the consul and emperor had their own separate entrances and boxes. A complex of rooms, passages and elevators lay in the subterranean area (beneath the arena), and this was where men, animals, and scenery were moved around. Cages for the animals were found at the lowest level, beneath the wooden arena floor. When the animals were needed, the cages were moved upward to the arena by means of winches and the animals were released. A system of ramps and trap doors enabled them to reach the arena

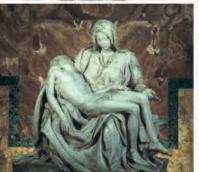




On Sundays, and on special occasions such as religious festivals and canonizations, the pope blesses the crowds from a balcony overlooking Bernini's colonnaded square in front of St. Peter's Basilica.

✓ Monument to Pope Alexander VII

Bernini's last work in St. Peter's was finished in 1678 and shows the Chigi pope among the allegorical figures of Truth, Justice, Charity, and Prudence.



∢ Michelangelo's

Protected by glass since an attack in 1972, this beautiful marble sculpture of Mary holding the dead Christ was created in 1499.





■ Baldacchino

Commissioned by Pope Urban VIII in 1624, Bernini's extravagant Baroque canopy stands above St. Peter's tomb.

■ Monument to Pope Alexander VII

Papal Altar ,

¥ Dome of St. Peter's

Entrance to Historical Artistic Museum and Sacristy

St. Peter's Basilica, Rome

Catholicism's most sacred shrine, the sumptuous, marble-clad St. Peter's Basilica draws pilgrims and tourists from all over the world. It holds hundreds of precious works of art, some salvaged from the original 4th-century basilica built by Emperor Constantine, others commissioned from

Renaissance and Baroque artists. The dominant

twisting up below Michelangelo's huge dome.

He also created the cathedra in the apse, with

four saints supporting a throne that

delivered his first sermon.

contains fragments once thought to be

relics of the chair from which St. Peter

tone is set by Bernini, who created the baldacchino

Staircase,

537 narrow

the dome

steps lead to

the summit of

St. Peter's Basilica is 610 ft (186 m) long



Nave

Markings on the floor of the nave show how other churches compare in length.

13th-century mosaic

by Giotto, Grottoes

Dome of St. Peter's

The 448-ft (136.5-m)

dome was designed

high Renaissance

by Michelangelo,

although it was

not completed

in his lifetime.

Two minor

cupolas by

(1507-73)

Vignola











ST. PETER

One of the most important and revered saints, Peter was one of the first two disciples of Christ. Peter's apostolate brought him to Rome in AD 44, where he established the Church of Rome. The saint is traditionally associated with two keys, one for Earth and one for heaven.

KEY DATES

AD 64 324 1506

St. Peter is crucified and buried in

Pope Julius II Roman Emperor lays the first Constantine builds a basilica stone of a over the tomb new basilica of St. Peter

Michelangelo is appointed chief architect

1546

The properties of the Holy See join the list of UNESCO World Heritage Sites.

1980

A fragment of a 13thcentury mosaic by Giotto, salvaged from the old basilica, can be found in the Grottoes, where many popes are buried.

Statue of St. Peter

The extended foot of this has worn thin and shiny from the touch of pilgrims over the centuries.

Façade Statues

The façade is topped by 13 travertine stone statues depicting Christ, John the Baptist, and 11 of the Apostles.

necropolis near his crucifixion site in the Circus of Nero. Constantine built a basilica on the burial site in 324. In the 15th century, the old church was found to be unsafe and had to be demolished. It was rebuilt in the 16th and 17th centuries. By 1614, the façade was ready, and in 1626 the new church was consecrated.

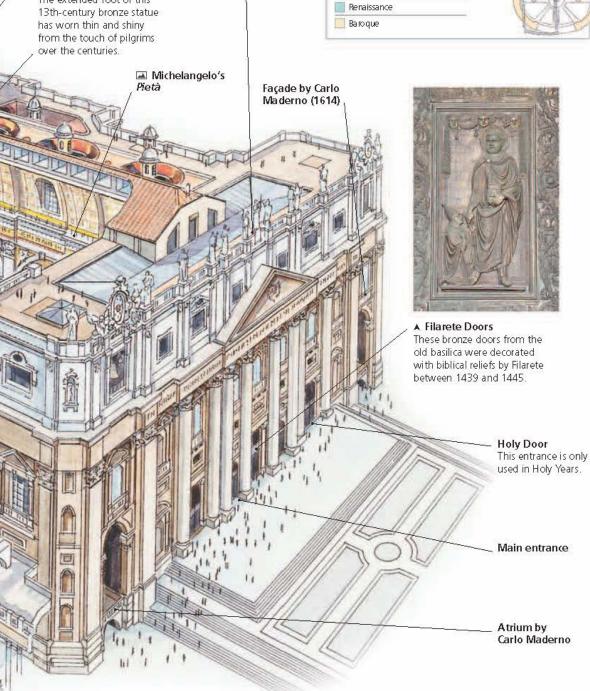
St. Peter was buried in AD 64 in a

HISTORICAL PLAN OF ST PETER'S BASILICA

KEY

Circus of Nero Constantinian







MICHELANGELO

The great Florentine artist, sculptor, architect, poet, and engineer Michelangelo Buonarroti (1475–1564) was one of the towering figures of the Renaissance. One of his very early works, the Pietà, a technically accomplished masterpiece produced when he was only 25, is in St. Peter's Basilica. Michelangelo felt that he was primarily a sculptor, but in 1508 he accepted Pope Julius II's commission to paint the ceiling of the Sistine Chapel in the Vatican. When it was completed, in 1512, it was immediately hailed as a masterpiece of the age. In 1546, Michelangelo was appointed chief architect of St. Peter's Basilica and devoted the last decades of his life to the building

GIANLORENZO BERNINI

This Italian sculptor, architect, set designer, and painter was the outstanding figure of the Baroque era in Italy. Born in Naples in 1598, the son of a sculptor, the young Bernini was quickly acknowledged as having a precocious talent for marble. He became the favorite architect, sculptor, and town planner to three successive popes, and transformed the look of Rome with his churches, palaces, piazzas, statues, and fountains. He worked on various parts of St. Peter's Basilica for more than 57 years.

RENAISSANCE STYLE

Brunelleschi's design for the Ospedale degli Innocenti (1419-24) in Florence, with its Classically inspired slender columns and semicircular arches, ushered in a new era of architecture in Italy. In the following decades, the Renaissance style spread to other urban centers in Italy. The vanguard of the movement relocated to Rome in the late 15th and early 16th centuries. By this point, Renaissance styles had reached most of Europe and even as far as Moscow, via Venice. The Renaissance (or "rebirth") in building design was intended to be rational and humane. Taking inspiration from the principal elements of architecture—square, cube, circle, and sphere—architects began to plan buildings according to mathematical proportions. Streets were widened and planning led to a focus on monuments and fountains.



VILLA OF THE MYSTERIES

This large villa outside Pompeii's city walls, on Via dei Sepolcri, was built in the early 2nd century BC. Initially designed as an urban dwelling, it was later extended into an elegant country house. The villa is famous for its interior decoration and contains a series of wellpreserved fresco cycles. The most famous is in the salon and features 29 brightly colored, lifesize figures against a red background. They are believed to represent a bride's initiation into the Dionysian mysteries, or a postulant's initiation into the Orphic mysteries. Some scholars say this subject was depicted because the owner was a priestess of the Dionysian cult, which was widespread in southern Italy at the time.

VIA DELL'ABBONDANZA AND **VIA STABIANA**

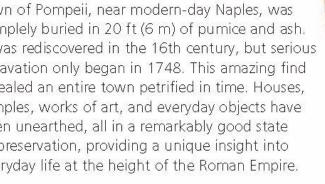
Once the liveliest, busiest street in Pompeii, Via dell'Abbondanza was lined with private homes and shops selling a wide range of goods. Felt and tanned hide were sold at the shop of Verecundus, and farther along, there is also a well-preserved laundry. Among the inns (thermoplia), the most famous belonged to Asellina, whose obliging foreign waitresses are depicted in graffiti on the wall. The inn still has a record of the proceeds of that fateful day in AD 79: 683 sesterces. The Via Stabiana was a major road, used by carriages traveling between Pompeii and the port and coastal districts. On the west side stood the Stabian Baths.

LIFE IN POMPEII

In the 1st century AD, Pompeii was a prosperous place. Once Etruscan, and later Greek, it was by AD 79 a thriving Roman commercial center, with baths, amphitheaters, temples, and luxurious villas for the wealthy. The House of Julia Felix occupies an entire block, divided into the owner's quarters and rented dwellings and shops. The house also had baths, which were open to the public. On the highest spot in Pompeii was the rectangular, paved Forum, once the market place. This was the center of public life and the focus for the most important civic functions, both secular and religious. The Amphitheater (80 BC) was used for gladiatorial combat and is the oldest of its kind in the world.

Pompeii

When Mount Vesuvius erupted in AD 79, the town of Pompeii, near modern-day Naples, was complely buried in 20 ft (6 m) of pumice and ash. It was rediscovered in the 16th century, but serious excavation only began in 1748. This amazing find revealed an entire town petrified in time. Houses, temples, works of art, and everyday objects have been unearthed, all in a remarkably good state of preservation, providing a unique insight into everyday life at the height of the Roman Empire.



VESUVIUS AND THE CAMPANIAN TOWNS



Casts of a mother and child in the archeological museum in Naples

Almost 2,000 years after the eruption of Mount Vesuvius, the Roman towns in its shadow are still being released from the petrification that engulfed them. Pompeli and Stabiae (Castellammare di Stabia), to the southeast of Naples and the volcano, were smothered by hot ash and pumice stone. The roofs of the buildings collapsed under the weight of the volcanic debris. To the west, Herculaneum (Ercolano) vanished under a sea of mud. A large number of its buildings have survived, their roofs intact, and many domestic

items were preserved by the mud. About 2,000 Pompelians perished, but few, if any, of the residents of Herculaneum died.

Much of our knowledge of the daily lives of the ancient Romans derives from the excavations of Pompeii and Herculaneum. Most of the objects from them are now held in Naples' Museo Archeologico Nazionale, creating an outstanding archeological collection. Although Mount Vesuvius has not erupted since 1944, it rumbles occasionally, causing minor earthquakes.

House of the Faun

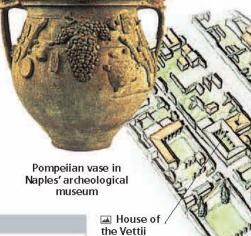
The famous villa of the wealthy

patrician Casii is named after this

Museo Archeologico Nazionale in

Naples, also originated here

bronze statuette (right). The mosaic Battle of Alexander, now in the



House of the Faun

Forum baths



≪ Scene from the famous fresco cycle in the Villa of the Mysteries



Pompeii's marketplace was fronted by a portico with two moneychangers' kiosks





✓ Sacrarium of the Lares Close to the Temple of Vespasian, this building housed the statues of Pompeii's quardian deities,

the Lares Publici.

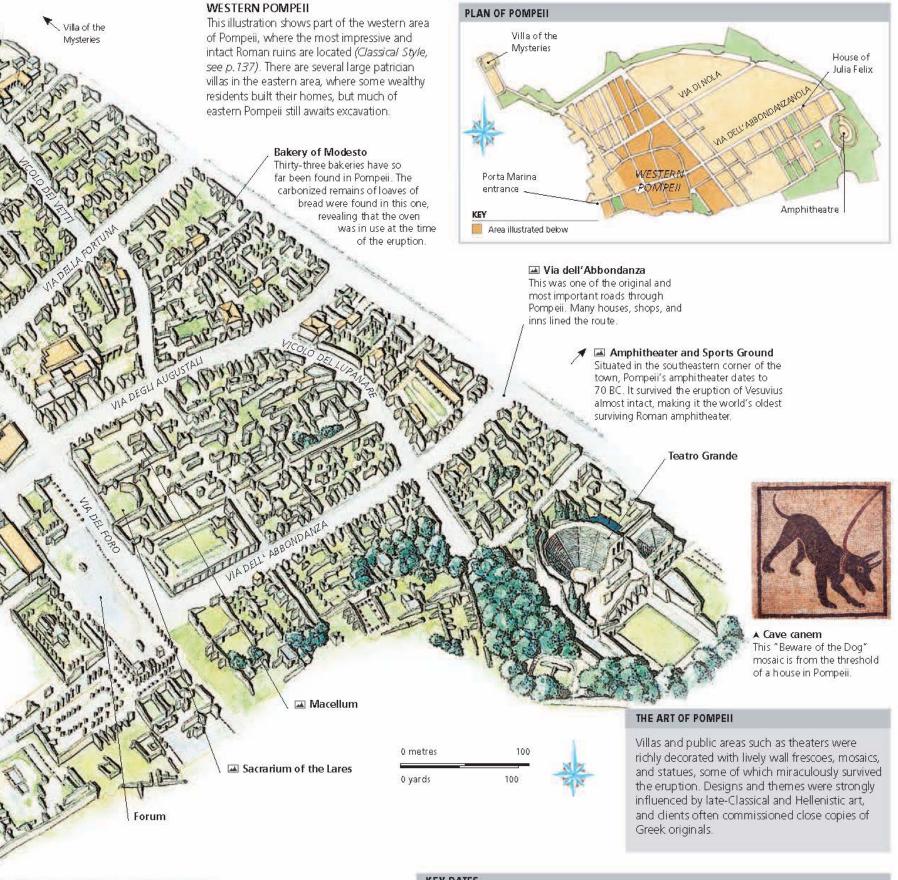


¥ Via dell'Abbondanza











✓ House of the Vettii This partly reconstructed patrician villa of the wealthy merchants

Aulus Vettius Conviva and Aulus Vettius Restitutus contains wonderful frescoes.

KEY DATES					
c. 8th century BC	August AD 79	15 94	1860	1997	
Building of Pompeii on an important crossroad by a people from central Italy.	Vesuvius erupts and Pompeii and Stabiae are showered with debris and completely buried for centuries.	Workers digging a trench in the area known as Civita discover traces of the ancient town.	Giuseppe Fiorelli becomes director of excavations; the town is gradually uncovered by archeologists.	The Archeological Area of Pompeii is added to UNESCO's World Heritage list.	



ST. MAURUS AND BISHOP EUPHRASIUS

Little is known about the lives of St. Maurus, the first bishop of Poreč, and Bishop Euphrasius. In the 4th century, St. Maurus built an oratory used by early Christians for secret worship. Legend says that he endured a martyr's death during the Roman Emperor Diocletian's persecution of Christians. In the 6th century, his body was transferred from a cemetery near the basilica to the **Votive Chapel**. The influential Bishop Euphrasius sought the best craftsmen for the construction of his basilica and created one of the greatest architectural complexes of the period.

BYZANTINE MOSAIC TECHNIQUE

The art of mosaic, especially in churches, peaked during the Byzantine period. Small, colored glass pieces were inlaid onto the walls, while hard-wearing natural stones and marbles were encrusted into the floors. In the 6th century, mosaicists began to use gold and silver glass tesserae in their designs to reflect the maximum amount of light. Most mosaics depicted biblical scenes or saints, but a few also included images of the builders. Bishop Euphrasius commissioned marvelous Byzantine designs for his basilica. The most impressive is that of the Virgin and Child in the apse, flanked by images of St. Maurus and Euphrasius (apse mosaics).

THE INTERIOR

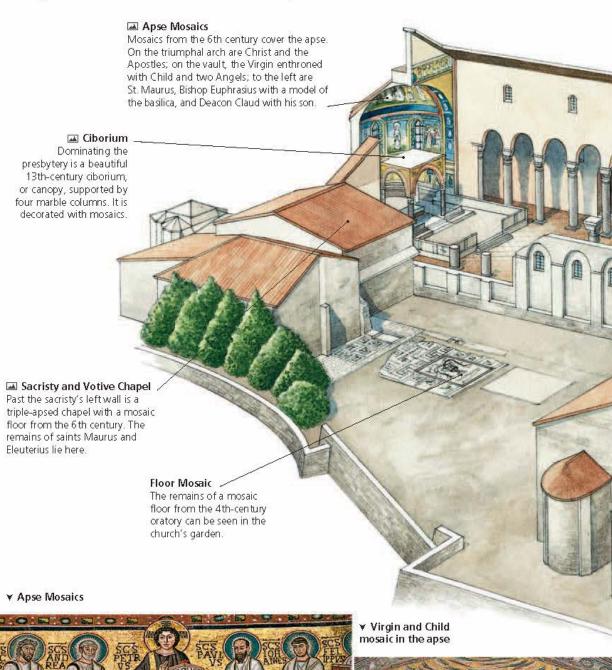
The Basilica of Euphrasius is entered through the atrium, which contains traces of the Byzantine mosaics that were restored in the 19th century. Nearby is the baptistry, built with a wooden roof in the 5th century and remodeled during the construction of Euphrasius's basilica. Christian converts were baptized in the central font until the 15th century. Inside the basilica, beautiful mosaics, made partly from semiprecious stones and mother-of-pearl, are still visible, especially in the apse and the ciborium. Several fires and earthquakes over the centuries have altered the shape of the building; the southern wall of the central nave was destroyed in the 15th century and later rebuilt with Gothic windows (Gothic Style, see p.54). On the western side of the basilica is the Holy Cross Chapel, adorned with a 15th-century polyptych by the Venetian artist Antonio Vivarini.

Basilica of Euphrasius, Poreč

This 6th-century church, a Byzantine masterpiece (Byzantine Style, see p.148), is decorated with splendid mosaics on a gold background. The Basilica of Euphrasius was constructed for Bishop Euphrasius between 539 and 553 by enlarging the 4th-century Oratory of St. Maurus, one of the earliest Christian religious sites in the world. Over the centuries, the building has undergone several alterations. Some of the original floor mosaics have survived—they were discovered during restoration work in the 19th century.



Mosaic in the apse



539-53 1277

The Basilica of Euphrasius is built on the site of the Oratory of St. Maurus.

■ Interior

A great marble ciborium is built, ordered by Otto, Bishop of Porec.

Atrium

displayed in this area.

Restoration work on the basilica repairs centuries of damage.

This has a roughly square portico with two columns on each side. Tombstones

and a variety of archeological finds dating from the medieval period are

1800s

The Basilica of Euphrasius is inscribed on UNESCO's World Heritage List.

Baptistry

¥ Baptistry

Ciborium ¥

This octagonal building dates from

the 6th century. In the center is a

baptismal font and there are also fragments of mosaic. To the rear

rises a 16th-century bell tower.

1997

THE POREČ MUSEUM

Near the Basilica of Euphrasius is the regional museum, which was opened in 1884. It contains more than 2,000 exhibits, including mosaics from as early as the 3rd century, as well as crosses, altarpieces, and choir stalls.

¥ Interior of the Basilica

with a central nave and two side aisles. The 18 marble columns are topped by Byzantine and Romanesque capitals carved with depictions of animals.





The entrance leads to a large church All bear the monogram of Euphrasius.



Sacristy and Votive Chapel ➤

Atrium >



A triple-aisled building dating from the 6th century, this now houses several paintings by Antonio da Bassano, a polyptych by Antonio Vivarini, and a painting by Palma il Giovane.







A The Acropolis today

The Acropolis provides a stunning backdrop to the modern city of Athens and is Greece's most visited site. Having survived earthquakes, fires, and wars for over 2,500 years, today its monuments are under threat from the atmospheric pollution that is slowly softening their marble.



¥ Propylaia

Acropolis, Athens



Moschophoros, Acropolis Museum

In the mid-5th century BC, the Athenian statesman Perikles persuaded the Athenians to begin a program of building work that has come to represent the political and cultural achievements of ancient Greece. Three new contrasting temples were built on the Acropolis, together with a monumental gateway. The Theater of Dionysos on the south slope was developed further in the 4th century BC, and the Theater of Herodes Atticus was added in the 2nd century AD.

Porch of the Caryatids

These statues of women were used in place of columns on the south porch of the Erechtheion. The originals, four of which are now in the Acropolis Museum, have been replaced by casts.

Olive Tree

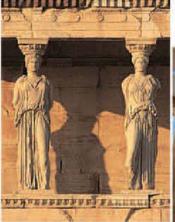
Propylaia

the Acropolis.

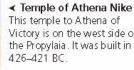
Athena Nike

This was built in 437-432 BC to form a new entrance to

In Greek mythology, Athena and Poseidon competed to be patron deity of Athens. Athena won by giving the gift of an olive tree. Today, a olive tree grows on the spot where she planted hers.







▼ Theater of Dionysos, figure of the comic satyr Silenus

Victory is on the west side of the Propylaia. It was built in







 Sculpture on the east pediment of the Parthenon





≺ Theatre of **Herodes Atticus** Also known as the Odeion of Herodes Atticus, this superb theater was originally built in AD 161. It was restored in 1955 and is used today for outdoor concerts.

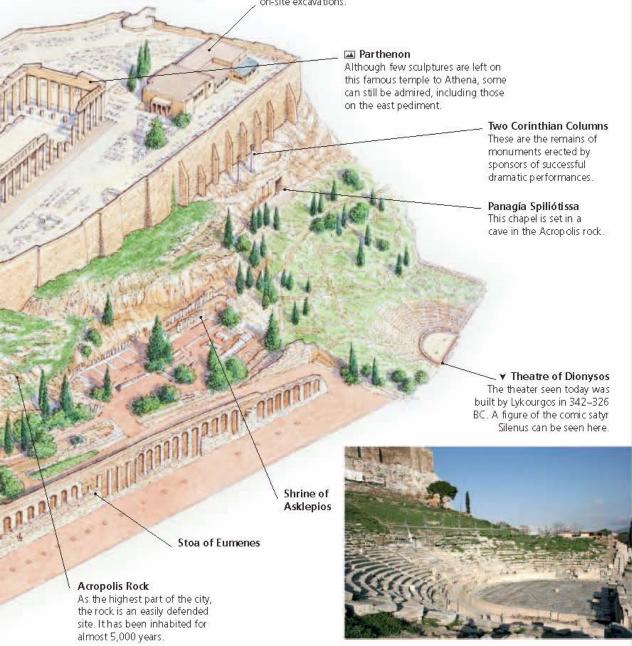
Acropolis Filopagnos KEY Area illustrated below

THE ELGIN MARBLES

Lord Elgin acquired architectural features from the Parthenon in 1801–5 and sold them to Britain. Controversy surrounds these socalled "Elgin Marbles," which are now in London's British Museum, as some believe they belong in Athens.

Acropolis Museum

Built in 1878, the museum is located on the southeastern corner of the site. It exhibits stone sculptures from the Acropolis monuments and artifacts from on-site excavations.



KEY DATES					
3000 BC	5 10 BC	45 1-42 9 BC	AD 267	1987	
The first of the settlements is built on the Acropolis.	The Delphic Oracle declares the Acropolis a holy place of the gods.	A lavish building program is begun by Perikles	Much of the Acropolis is destroyed by the Germanic Heruli tribe.	UNESCO inscribes the Acropolis as a World Heritage Site:	



ACROPOLIS MUSEUM

The museum is devoted to finds from the Acropolis. Divided chronologically, the collection begins with 6th-century BC works that include fragments of painted pedimental statues, such as *Moschophoros*, or Calf-Bearer, a young man carrying a calf on his shoulders (c. 570 BC). Two rooms house a unique group of *korai* (votive statues of maidens offered to Athena) from c. 500 BC. The *korai* illustrate the development of ancient Greek art—moving from the formal bearing of the *Peplos Kore* to the more natural body movement of the *Almond-Eyed Kore*. The museum's collection ends with the original four caryatids from the south porch of Erechtheion (**Porch of the Caryatids**).

THE PARTHENON

Built as an expression of the glory of Athens, this temple (Parthenon) was designed to house a 40-ft (12-m) high statue of Athena Parthenos (Maiden) sculpted by Pheidias. Taking nine years to complete, the building was finally dedicated to the goddess in 438 BC. The temple was 230 ft (70 m) long and 100 ft (30 m) wide, with a striking red, blue, and gold entablature. The sculptors used visual tricks to counteract the laws of perspective, making the building completely symmetrical. Over the centuries, it has served as a church, a mosque, and an arsenal.

CLASSICAL STYLE

At the heart of Greek architecture were the Classical "orders"—the types and styles of columns and the forms of structures and decoration that followed on from them. Of these, Doric is the earliest; the column has no base, a fluted shaft, and a plain capital. The lonic column is a lighter development from the Doric; the fluted shaft has a base and a volute capital. The Corinthian, with its plinth and fluted shaft, is a variant of the lonic and distinctive in its ornate capital. The capitals of the columns were representations of natural forms, as in the rams' horns of the lonic or the stylized acanthus leaves of the Corinthian. Other architectural features included pediments (triangular structures crowning the front of the temples), carvatids (sculptures used as columns), and friezes of relief sculptures, used to adorn exteriors.





BULGARIA "Thessaloniki GREECE MONASTERY MEDITERRANEAN

ST. JOHN AND THE HOLY CAVE

Inside the church of Agía Anna, near the Monastery of St. John, is the Holy Cave of the Apocalypse. It was here that St. John had the vision of fire and brimstone that inspired the New Testament's Book of Revelation. The cave contains the rock where John dictated his vision to his disciple, Próchoros, and the indentation where the saint is said to have rested his head each night. Also visible is the cleft in the rock from where the voice of God is said to have spoken to John. The cave also has 12th-century wall paintings and icons from 1596 of St. John and the Blessed Christodoulos by the Cretan painter Thomás Vathás.

THE BLESSED CHRISTODOULOS

The Christian monk Christodoulos (slave of Christ) was born around 1020 in Asia Minor. He spent much of his life building monasteries on several Greek islands. He was given permission by the Byzantine Emperor Alexios I Comnenos (r. 1081-1118) to build a temple on Pátmos, in honor of the Apostles. Christodoulos laid the foundation stone for the Monastery of St. John, but died in 1093 before it was completed. His remembrance celebrations are held each year in Pátmos on March 16 and October 21

THE TREASURY

Also known as the library, the treasury contains a vast and important collection of theological and Byzantine works. There is a central room, decorated with plastered arches supported by stone columns, off which lie other rooms displaying religious artifacts. Priceless icons and sacred art, including vestments, chalices, and Benediction crosses, can be viewed. Floor-toceiling bookcases, built into the walls, store religious manuscripts and biographical materials, many written on parchment. Manuscripts of note include the Book of Job, sermons by St. George the Theologue, the Purple Code, and a 14th-century volume containing images of the Evangelists entitled Gospel of Four. The treasury also possesses 15th- to 18th-century embroidered stools and mosaics, as well as beautiful 17th-century furnishings. There are also garments worn by past bishops, some woven in gold thread

Monastery of St. John, Pátmos

of worship for Orthodox and Western Christians alike. It was founded in 1088 by a monk, the Blessed Christodoulos, in honor of St. John the Divine, author of the Bible's Book of Revelation. One of the richest and most influential monasteries in Greece, its towers and buttresses make it look like a fairy-tale castle, but were built to protect its religious treasures, which are now the star attraction for the thousands of pilgrims and tourists who visit every year.



◆ Holy Cave of the Apocalypse, where St. John lived and worked



Kitchens

The Monastery of St. John is one of the most important places

Monks' Refectory This room contains two marble tables taken from the Temple of Artemis, which originally occupied the site.



▼ Main Courtyard

A Chrysobull

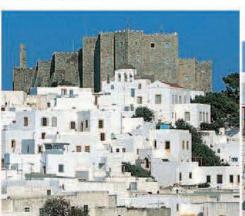




A Icon of St. John This 12th-century icon is the most revered in the monastery and is housed in the katholikon,

the monastery's main church.

▼ Monastery of St. John above the village of Chóra



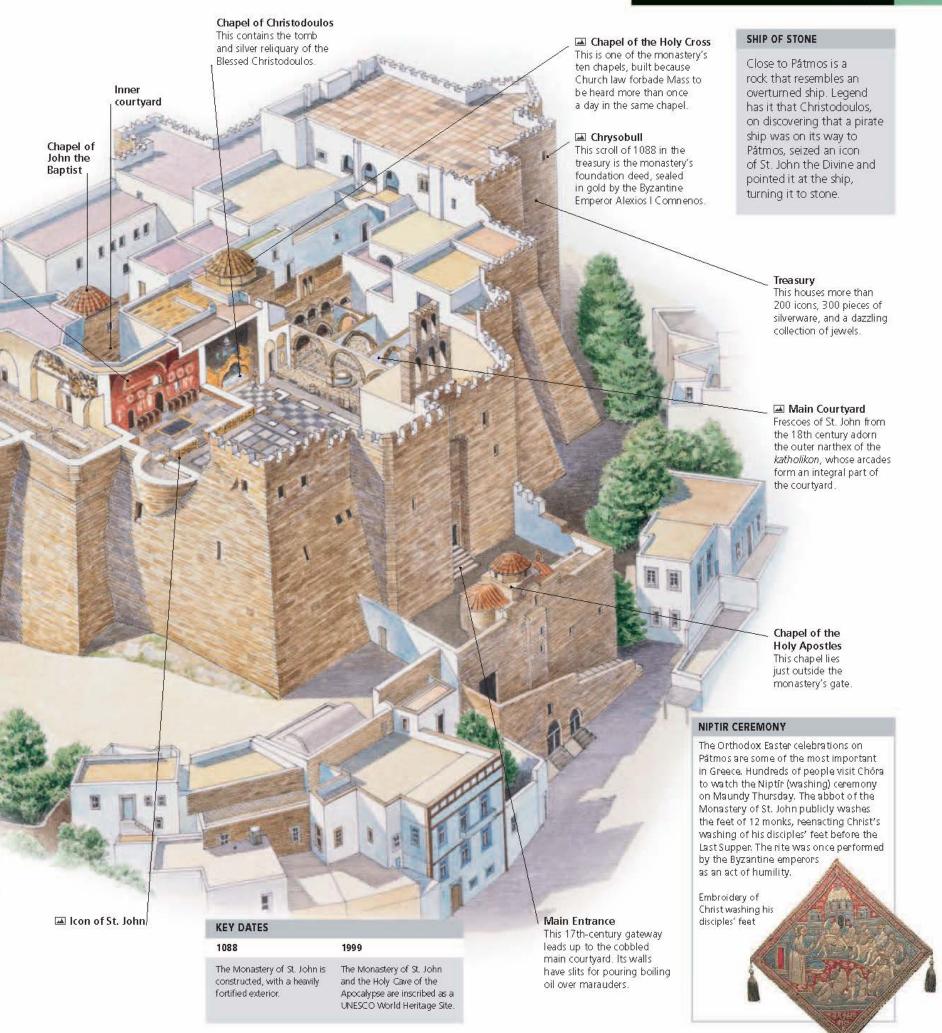
¥ Chapel of the Holy Cross

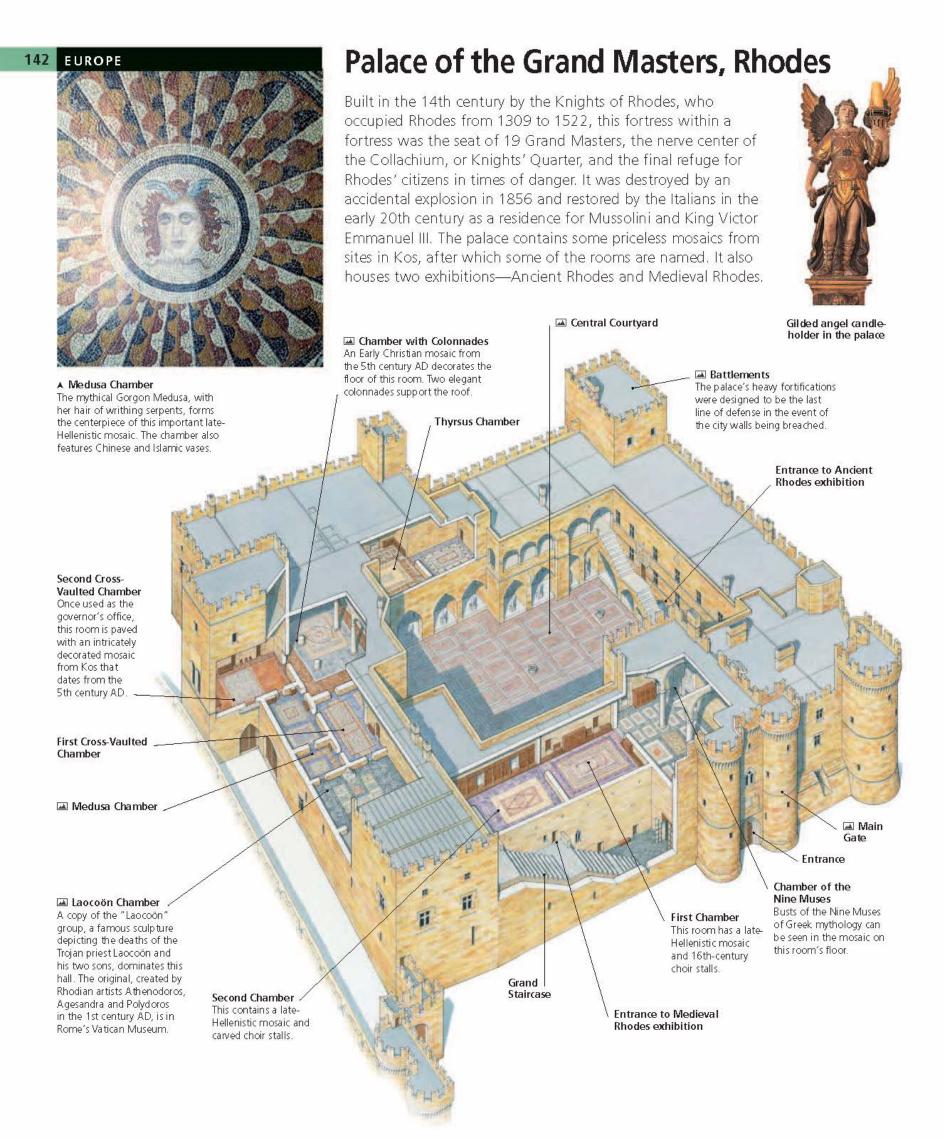
▲ The Hospitality of Abraham

This is one of the most important of

the 12th-century frescoes that were found in the chapel of the Panagía





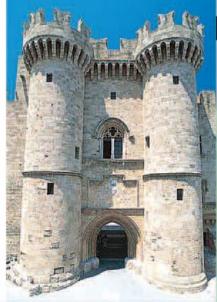


THE KNIGHTS OF THE ORDER

Men were drawn from noble Roman Catholic families all over Europe to join the Order of the Knights of St. John; however, there were never more than 600 knights at any one time. Those who entered the order swore vows of chastity, obedience, and poverty.

Main Gate ➤

This imposing entrance, built by the Knights, has twin horseshoe-shaped towers with swallowtail turrets. The coat of arms is that of Grand Master del Villeneuve, who ruled from 1319–46.



THE FIRST GRAND MASTER



The Knights Street

(Odhos Ippoton) >

This cobbled medieval street leads to the palace.

Along its length are the

most important public and

private buildings erected

by the Knights.

Foulkes de Villaret (1305–19), a French knight, was the first Grand Master. He negotiated to buy Rhodes from the Lord of the Dodecanese, Admiral Vignolo de Vignoli, in 1306. This left the Knights with the task of

conquering the island's inhabitants. The Knights of Rhodes, as they became known, remained here until their expulsion in 1522. The Villaret name lives on in Villare, one of the island's white wines.

Foulkes de Villaret

▼ Battlements





Central Courtyard ➤

Hellenistic statue's taken from the Odeion in Kos line the Central Courtyard. Its north side is paved with geometric marble tiles.





▲ Chamber with Colonnades

KEY DATES

1300s

1856

The Palace of the Grand Masters is constructed by the Knights of Rhodes. The palace is accidentally demolished by a gunpowder explosion.

1937-40

The building is restored by Italian architect Vittorio Mesturino.

The Medieval City of Rhodes, including the Palace of the Grand Masters, is inscribed as a UNESCO World Heritage Site.

1988



A Laocoön Chamber



MOSAIC FLOORS AND STATUES FROM KOS

During the restoration of the palace, beautiful Hellenistic, Roman, and Early Christian mosaics were taken from buildings on the nearby island of Kos and used to rebuild the palace's floors, including those of the **Chamber with Colonnades** and the **Medusa Chamber**. The magnificent statues displayed in the **Central Courtyard** were also brought in from Kos; they date from the Hellenistic and Roman periods.

THE KNIGHTS OF RHODES

Founded in the 11th century by merchants from Amalfi, the Order of Knights Hospitallers of St. John guarded the Holy Sepulcher and defended Christian pilgrims in Jerusalem. They became a military order after the First Crusade (1096-9), but took refuge in Cyprus in 1291 when Jerusalem fell to the Muslim Mamelukes. They then bought Rhodes from the Genoese and conquered the Rhodians in 1309. A Grand Master was elected for life to govern the order, which was divided into seven Tongues, or nationalities: France, Italy, England, Germany, Spain, Provence, and Auvergne. Each Tonque protected an area of the city wall known as a Curtain. The Knights built some fine examples of medieval military architecture, including 30 castles in Greece's Dodecanese islands.

EXHIBITIONS

The Ancient Rhodes exhibition is situated off the Central Courtyard in the north wing of the palace. Its marvelous collection is a result of 45 years of archeological investigation on the island, and includes vases and figurines—dating from the prehistoric period up to the founding of the city in 408/7 BC—excavated from the Minoan site at Trianda. Also on display are jewelry, pottery, and grave stelae from the tombs of Kamiros, Lindos, and Jalysos, which date from the 8th and 9th centuries BC. In the south and west wings is the splendid Medieval Rhodes exhibition. Covering the 4th century AD to the city's conquest by the Ottoman Turks in 1522, the displays here provide an insight into trade and everyday life in Rhodes in Byzantine and medieval times, with Byzantine icons, Italian and Spanish ceramics, armor, and military memorabilia on view.

144 EUROPE



LIFE IN THE HAREM

The word "harem" derives from the Arabic for "forbidden." It was the residence of the sultan's wives, concubines, children, and mother (the most powerful woman), who were guarded by black slave eunuchs. The sultan and his sons were the only other men allowed into the harem. The concubines were slaves, gathered from the farthest corners of the Ottoman empire and beyond. Their goal was to become a favorite of the sultan and bear him a son. Competition was stiff, for at its height a harem had more than 1,000 women. Topkapi's harem was laid out by Murat III in the 16th century. The last women left in 1909.

MEHMET II

Capturing the strategically important dty of Constantinople from the Byzantines in 1453 was one of Mehmet II's greatest achievements and a turning point in the development of the Ottoman empire. Mehmet (1432–81) was the son of Murat II and a slave girl. He became known as "the conqueror," not only for taking Constantinople, but also for his successful campaigns in the Balkans, Hungary, the Crimea, and elsewhere. In 30 years as sultan, he rebuilt his new capital, reorganized the government, codified the law and set up colleges that excelled in mathematics and astronomy.

PALACE COLLECTIONS

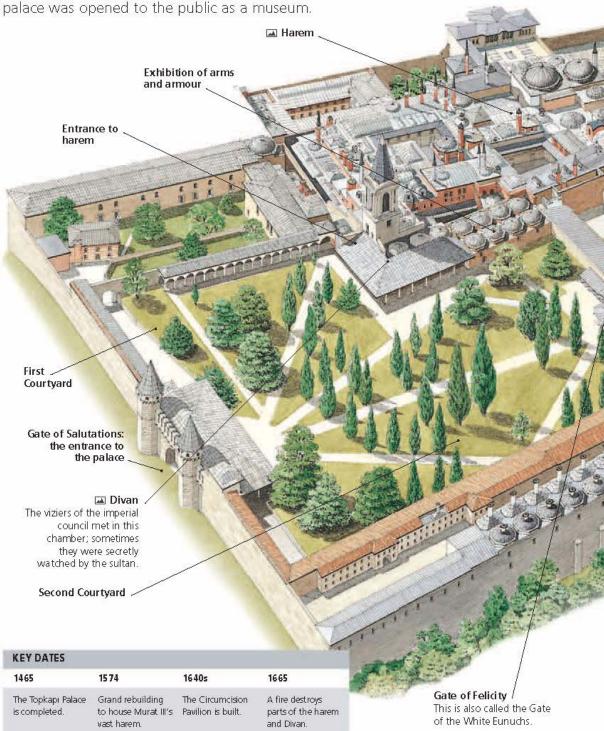
On display throughout the palace are the glittering treasures amassed by the Ottoman sultans during their 470-year reign. In addition to diplomatic gifts and items commissioned from palace craftsmen, many objects were booty brought back from military campaigns. The kitchens contain cauldrons and utensils used to prepare food for the 12,000 residents, and Chinese porcelain carried along the Silk Route. The **Treasury** holds thousands of precious and semiprecious stones: highlights include the bejeweled Topkapı dagger (1741), and the 86-carat Spoonmaker's diamond. Mehmet II's sumptuous silk kaftan is among the imperial costumes in the Hall of the Campaign Pages. In the Pavilion of the Holy Mantle are some of the holiest relics of Islam, such as the mantle once worn by the Prophet Mohammed

Topkapı Palace, Istanbul

The official residence of the Ottoman sultans for more than 400 years, the magnificent Topkapı Palace was built by Mehmet II between 1459 and 1465, shortly after his conquest of Constantinople (now Istanbul). It was not conceived as a single building, but rather as a series of pavilions contained by four enormous courtyards, a stone version of the tented encampments from which the nomadic Ottomans had emerged. Initially, Topkapı served as the seat of government and contained a school in which civil servants and soldiers were trained. However, the government was moved to the Sublime Porte in Istanbul in the 16th century. Sultan Abdül Mecid I left Topkapı in 1853 in favor of Dolmabahçe Palace. In 1924, two years after the sultanate was abolished, the



Seventh-century jewelencrusted jug, Treasury



THE CAGE

Pavilion of the Holy Mantle

Throne room,

A new sultan would order the execution of his brothers to avoid succession contests. From the 17th century, brothers were spared, but were incarcerated in the notorious "Cage," a set of rooms in the harem.

Circumcision Pavilion

Exhibition

of clocks



▲ Iftariye Pavilion

Under the golden roof of this pavilion, Sultan Ahmed III awarded gold coins to those who had entertained him during a festival to honor the circumcision of his sons in 1720.

Baghdad Pavilion

Exhibition of miniatures and manuscripts



⊀ Harem

This was a labyrinth of exquisite rooms where the sultan's wives and concubines lived.

¥ Divan



The Fourth Courtyard is a series of gardens dotted with pavilions

. Third Courtyard



In 1639, Murat IV built this pavilion to celebrate his capture of Baghdad. Its walls have exquisite blue-and-white tile work.

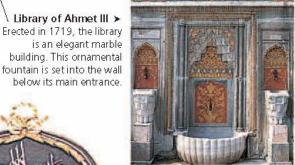


Hall of the Campaign Pages

Kitchens

These now contain an exhibition of ceramics, glass, and silverware.

> Süleyman I's tuğra (monogram) ➤



The harem's Imperial Hall, used for staging entertainments >







148 EUROPE



THE GROUND FLOOR

The interior of Haghia Sophia succeeds in imparting a truly celestial feel. Highlights include the fine Byzantine mosaics, mostly dating from the 9th century or later. The most conspicuous features at ground level are those added by the Ottoman sultans after the conquest of Istanbul in 1453, when the church was converted into a mosque. These comprise the mihrab, a niche indicating the direction of Mecca; the minbar, a platform used by the imam to deliver sermons; the Sultan's loge, a safe place in which the sultan could pray; and the Kürsü, a throne used by the imam while reading from the Koran.

UPPER WALLS AND DOME MOSAICS

The apse is dominated by a large and striking mosaic showing the Virgin with the infant Jesus on her lap. Two other mosaics, unveiled in 867, depict the archangels Gabriel and Michael, although only fragments of the latter remain Portraits of the saints Ignatius the Younger, John Chrysostom, and Ignatius Theophorus adorn niches in the north tympanum. In a concave area at the base of the dome is a mosaic of the sixwinged seraphim. The dome is decorated with Koranic inscriptions (calligraphic roundels). It was once covered in gold mosaic tiles.

BYZANTINE STYLE

When Emperor Constantine I (r. 306-337) chose Byzantium for his capital and renamed it Constantinople, he amassed artists, architects, and craftsmen to build his new imperial city. They came mainly from Rome, bringing with them an Early Christian style. Eastern influences were added to this and a distinct Byzantine style evolved. Churches, once based on a longitudinal design, became centralized—as at Haghia Sophia—with an eastern apse and three aisles. Mosaics depicting angels, archangels and saints, in hierarchical order, covered the interiors and the Virgin Mary would be pictured in one of the domes. Figures were front-on, with large, penetrating eyes, and set against a gold background. Sculpture took the form of small relief carvings, rather than figures. The Byzantines were also sophisticated metalworkers, producing bronze church doors inlaid with silver.

Haghia Sophia, Istanbul

build a new church

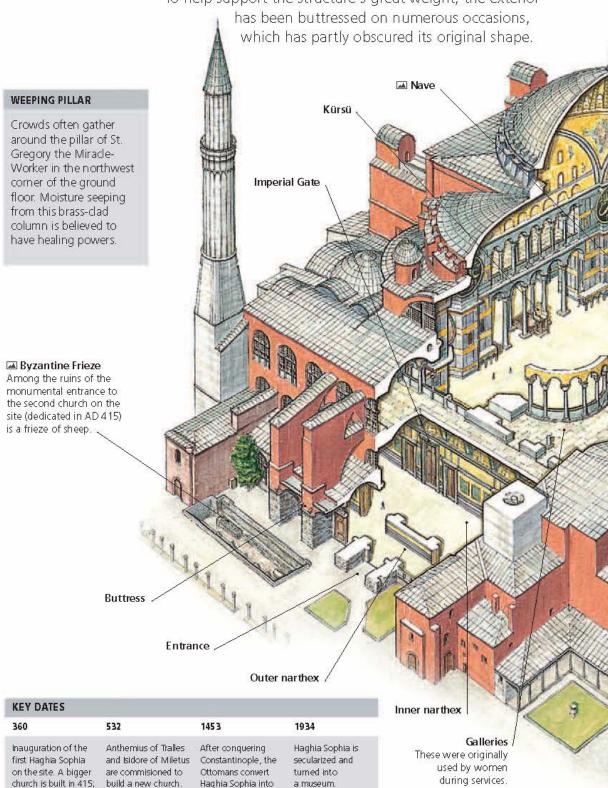
a mosque

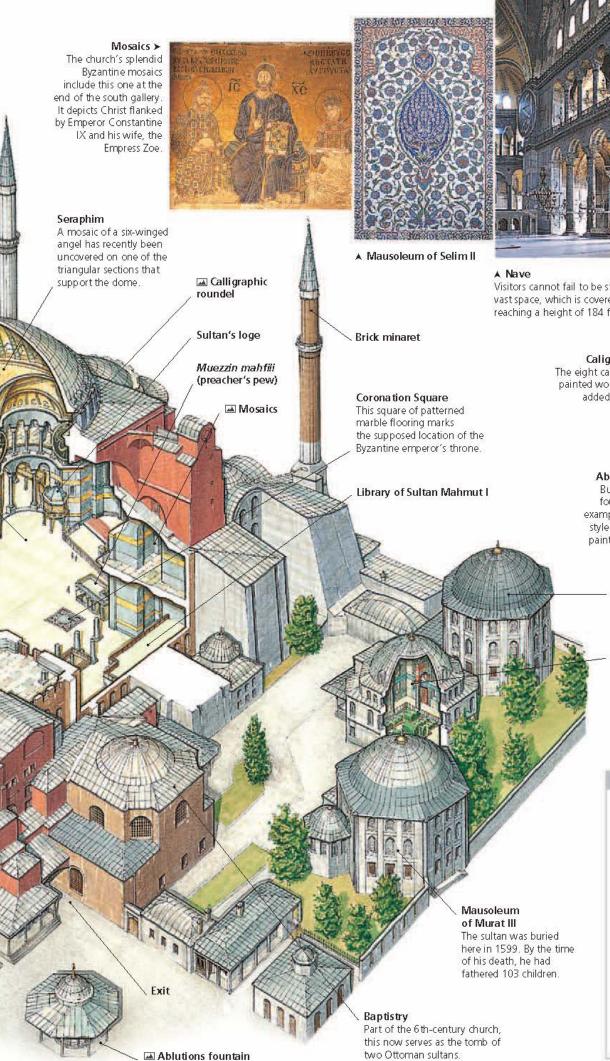
it burns down in 532



Print of Haghia Sophia from the mid-19th century

The "Church of the Holy Wisdom," Haghia Sophia is among the world's greatest architectural achievements. More than 1,400 years old, it stands as a testament to the sophistication of 6th-century Constantinople, and had a huge influence on architecture in the centuries that followed. The vast edifice was built over two earlier churches and inaugurated by the Byzantine emperor Justinian I in 537. In the 15th century, the Ottomans converted it into a mosque: the minarets, tombs, and fountains date from this period. To help support the structure's great weight, the exterior







Visitors cannot fail to be staggered by this vast space, which is covered by a huge dome reaching a height of 184 ft (56 m).

Caligraphic Roundels >

The eight calligraphic roundels painted wooden plaques-were added in the 19th century.

Ablutions Fountain >

Built around 1740, this fountain is an exquisite example of Turkish Rococo style. Its projecting roof is painted with floral reliefs.

Mausoleum of Mehmet III

Mausoleum of Selim II

The oldest of the three mausoleums was completed in 1577 to the plans of Sinan, Süleyman I's imperial architect. Its exquisite interior is entirely covered with Iznik tiles.



TURKEY

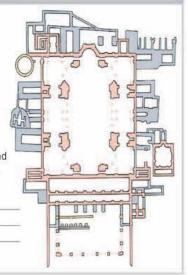
Byzantine Frieze A

HISTORICAL PLAN OF HAGHIA SOPHIA

Nothing remains of the first 4th-century church on this spot, but there are traces of the second one from the 5th century, which burned down in 532. Earthquakes have taken their toll on the third Haghia Sophia, which has been strengthened and added to many times.

KEY

- 5th-century church
- fth-century church
- Ottoman additions



150 EUROPE



CHURCH OF ST. MARY

Occupying a place of particular significance in the development of Christianity, the Church of St. Mary, located near the entrance to the site, is believed to be the first church in the world dedicated to the Virgin Mary. It was here, in AD 431, that the Council of the Church accepted that Jesus, son of the Virgin Mary, was also the son of God. Used as a warehouse in the Roman era, the long, narrow building has been altered over time and was at one point used for training priests. In the 4th century, it was converted into a basilica with a central nave and two aisles. Later, an apse was created on the eastern wall and, to the western side of the church, a circular baptistry with a central pool was built. Additions dating from the 6th century include a domed chapel situated between the apse and the entrance of the original church.

EPHESUS MUSEUM

The archeological museum at Selçuk, 2 miles (3 km) from the excavations, is one of the most important in Turkey. It contains many of the remarkable artifacts uncovered at Ephesus since World War II. An entire hall is devoted to Artemis, the Greek goddess of chastity, hunting, and the moon. Other exhibits feature marble and bronze statues, ancient frescoes, and wall paintings, jewels, Mycenean vases, gold and silver coins, Corinthian column heads, tombs, bronze and ivory friezes, and the altar from the Temple of Domitian

GENERAL LYSIMACHUS

On the death of Alexander the Great in 323 BC, the Macedonian empire-including Ephesus—was divided among his generals. Lysimachus (360-281 BC) was entrusted with Thrace. He soon added Asia Minor, and in 286 BC he took Ephesus, heralding a new era for the city. It was already a strategic trading port, but the receding coastline and silt-filled harbor threatened its livelihood. Lysimachus first dredged the harbor. Then he moved the city to its present site, fortified it with huge walls and renamed it (for a brief time) Arsinoe, after his third wife. The city soon became densely populated and began to prosper.

Ephesus

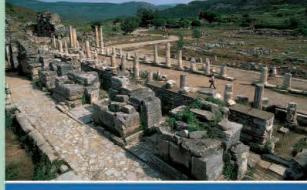
One of the best-preserved ancient cities in the world, Ephesus is a fine example of Classical architecture (Classical Style, see p. 137). A Greek city was first established here in around 1000 BC and it soon rose to prominence as a center for the worship of Cybele, the Anatolian mother goddess. The city we see today was built by Alexander the Great's successor, Lysimachus, in the 4th century BC. But it was under the Romans that Ephesus became the chief port in the Aegean. Most of the surviving structures date from this period. The city declined when the harbor silted up, but it played an important role in the spread of Christianity. It is said that the Virgin Mary spent her last days nearby, cared for by St. John the Evangelist, and two ecumenical councils of the early Church were held here in AD 431 and 449.



Statue of Artemis in Ephesus Museum

▼ Colonnaded Street









Hadrian

¥ Library

of Celsus



Murals in the houses opposite the Temple of Hadrian indicate that these were the homes of wealthy Ephesians.

Gate of Hercules Y

The gate at the entrance to Curetes Street takes its name from two reliefs showing Hercules draped in a lion skin. Originally a two-story structure, and believed to date from the 4th century AD, it had a large central arch with winged victories on the upper corners of the archway. Curetes Street was lined with statues of civic notables.





Commercial Agora This was the city's main market place. Three of its four sides were surrounded by a portico that contained shops.

Library of Celsus

Built in AD 114–117 by Consul Gaius Julius Aquila for his father, the library was damaged first by the Goths and then by an earthquake in AD 1000. The statues occupying the niches in front are Sophia (Wisdom), Arete (Virtue), Ennoia (Intellect), and Episteme (Knowledge).

Brothel

This was adorned with a statue of Priapus, the Greek god of fertility.

A FISH AND A BOAR

According to legend, Androklos asked the oracle at Delphi where he should build his city. He was told, "A fish and a boar will show you the place." When he crossed the Aegean and went ashore to cook a fish, a bush caught fire and a boar ran out. Ephesus was founded on that spot.

Skene

The stage building featured elaborate ornamentation.

Carved into the flank of Mount Pion during the Hellenistic period, this was designed for theatrical performances. Later alterations by the Romans also allowed gladiatorial contests to be held here.

HOUSE OF THE BLESSED VIRGIN

Marble Street

This short street, once

un even marble blocks.

■ Temple of Hadrian

Built to honor a visit by

Emperor Hadrian in AD

123, the relief marble

work on the façade portrays mythical gods

Gate of Hercules

and goddesses.

flanked by columns,

is paved with large,

According to the Bible, Jesus asked St. John the Evangelist to care for his mother after his death. John brought Mary with him to Ephesus in AD 37, and she spent the last years of her life here in a modest stone house. The House of the Blessed Virgin is located at Meryemana, 5 miles (8 km) from the center of Ephesus. The shrine, known as the Meryemana Kultur Parki, is revered by both Christians and Muslims and is a place of pilgrimage, especially around August 15 (Assumption).



The House of the Blessed Virgin

Temple of Domitian
This 1st-century temple
was the first at Ephesus
to be built in honor
of an emperor.

⊀ Theater

Odeon

This small roofed theater was built in AD 150. It was used for meetings, and as a concert venue.

Colonna ded Street

Lined with Ionic and Corinthian columns, this street runs from the Baths of Varius to the Temple of Domitian.

KEY DATES

is founded by

Androklos, son

of Kodros, King

of Athens.

The city of Ephesus

1000 BC

133 BC

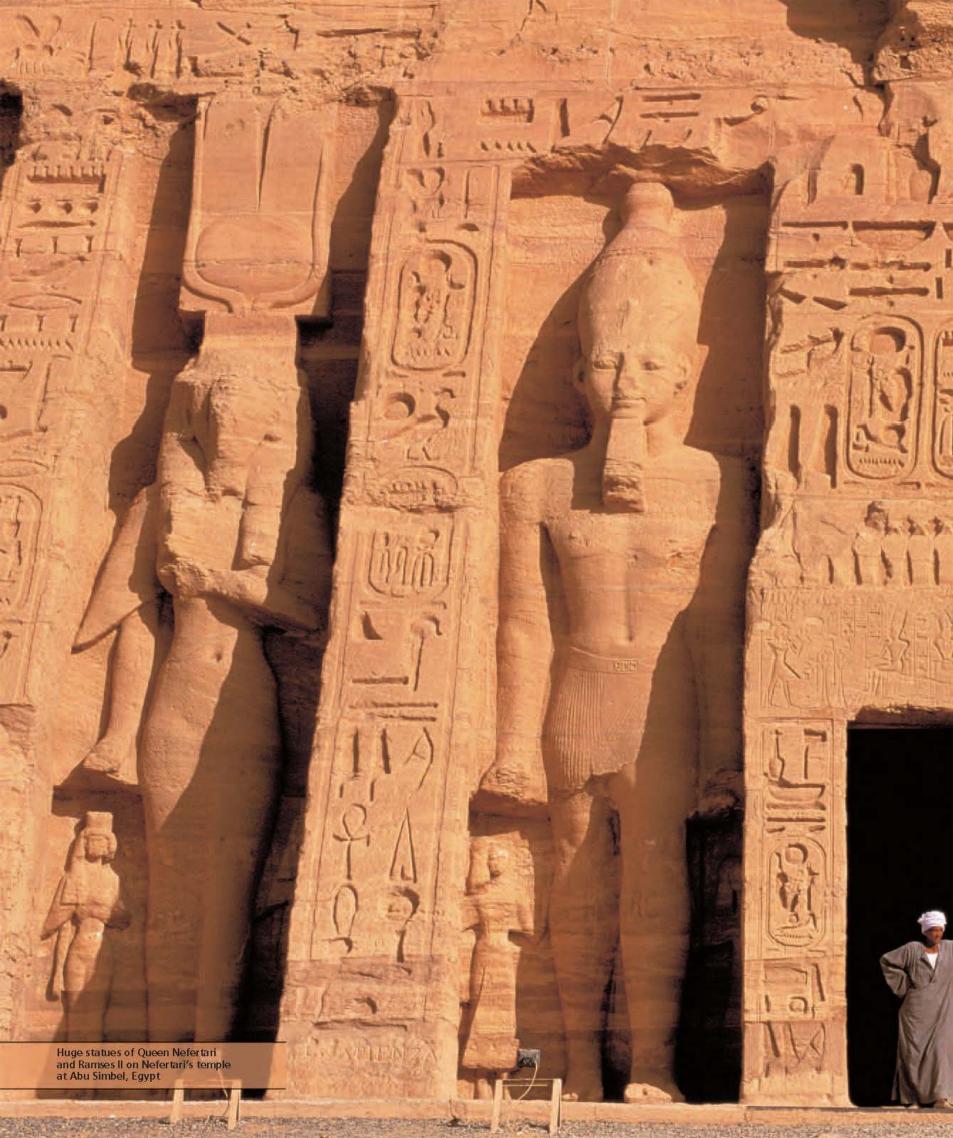
Ephesus comes under the rule of Rome. It is made capital of Asia Province. 4th century

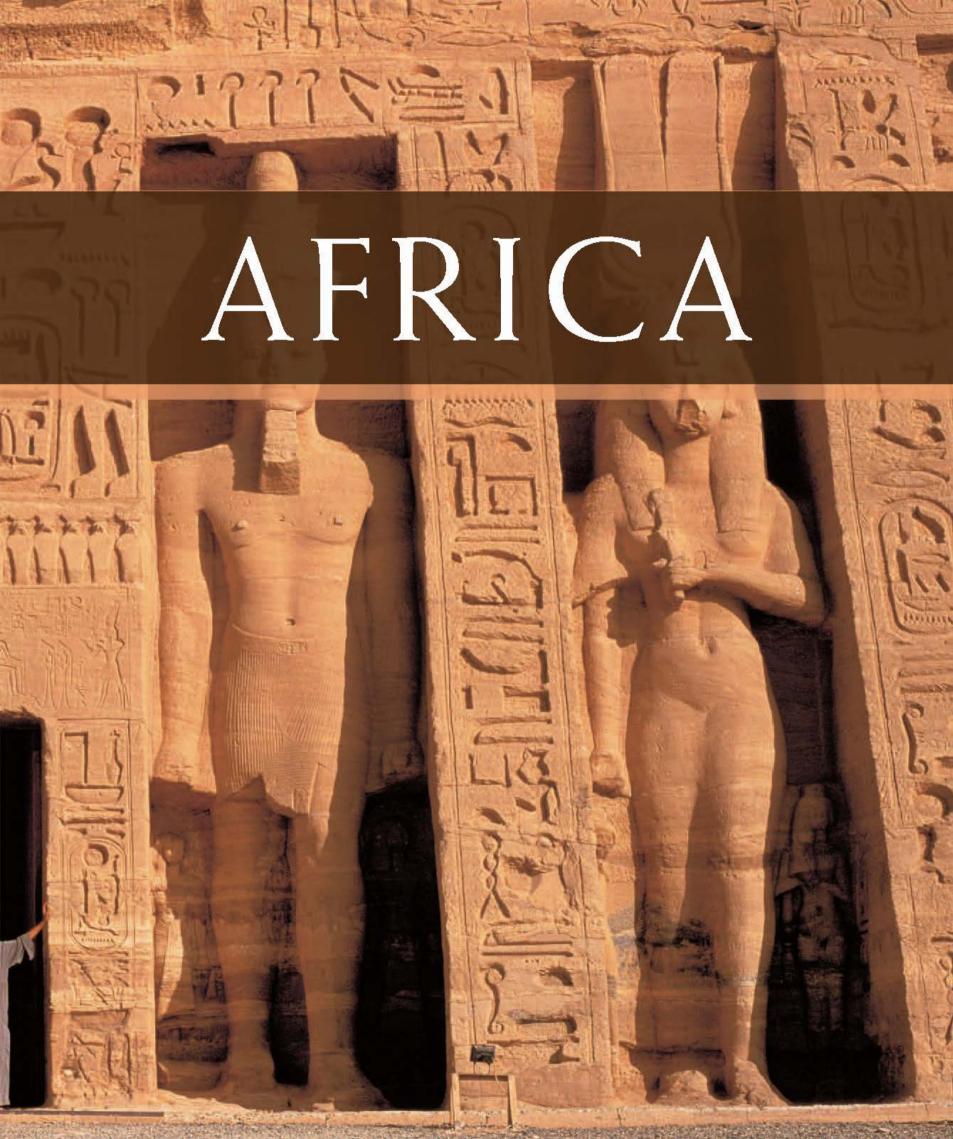
The harbor silts up, trade decreases and the city starts to decline.

The first excavations of the city begin. Work continues to this day.

1869

Baths of Varius





HASSAN II

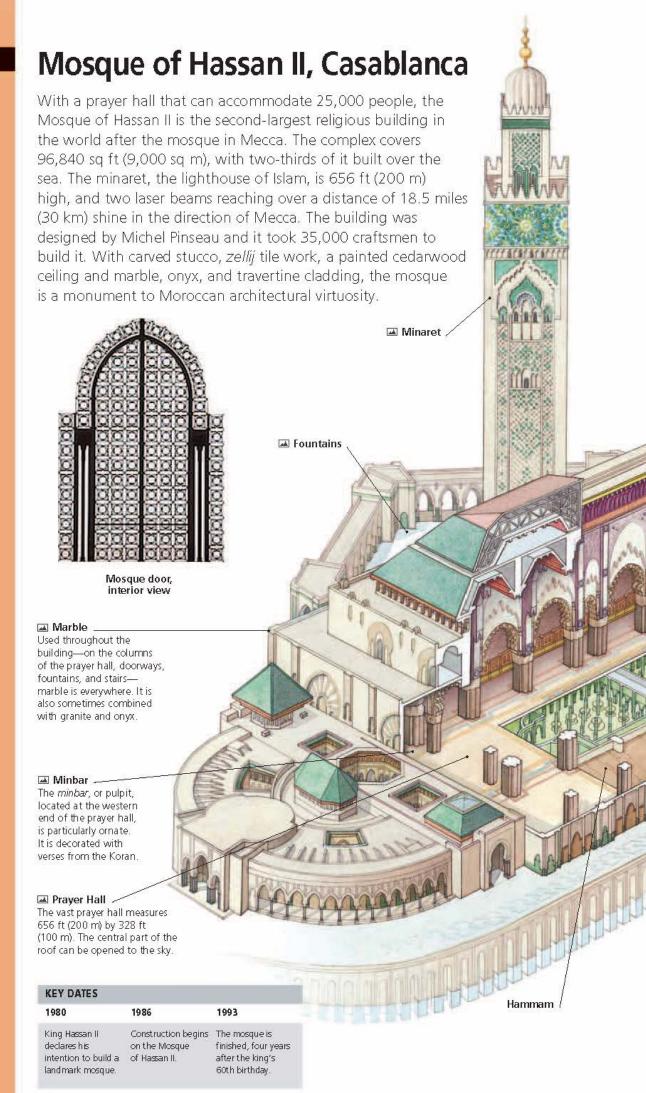
Moulay Hassan succeeded to the throne of Morocco on the death of his father in 1961. A skillful politician, he alternated liberalizing policies with repression. He introduced the country's first constitution in 1962 and parliamentary elections in 1963, but the road to reform was rocky. When Spain withdrew from the mineral-rich Western Sahara in 1975, Hassan initiated the Green March, in which 350,000 civilians crossed the border to assert Morocco's claim to the region. Spain agreed to the transfer of power, but Algerian-backed Polisario Front guerrillas began a violent campaign for independence. A ceasefire was agreed to in 1991. Hassan II died in 1999.

INSIDE THE MOSQUE

The waterfront Mosque of Hassan II is the crowning glory of the king's reign. Built for his 60th birthday, the mosque was mainly financed by donations from the Moroccan people. Inside, the massive marble-floored **prayer hall** sparkles in the glow of Venetian chandeliers. Cedarwood from Morocco's Middle Atlas range has been shaped and carved to form **doors** and screens and the paneling of 70 cupolas. Even the sliding roof is painted and gilded. The **hammam** (traditional bathhouse) is below the prayer hall.

MUSLIM BELIEFS AND PRACTICES

Muslims believe in one God (Allah), and their holy book, the Koran, shares many stories and prophets with the Bible. However, Muslims hold that Jesus was just one in a line of prophets, the last being Mohammed, who brought the final revelation of God's truth to mankind. Muslims believe that Allah communicated the texts of the Koran to Mohammed through the Archangel Gabriel. Muslims pray five times a day, wherever they may be, and the calls to prayer are broadcast from the mosque. Those who visit a mosque to pray remove their shoes and wash their feet, head, and hands outside before entering. Inside, women and men pray in separate areas. When praying, Muslims face Mecca in Saudi Arabia. In a prayer hall, the direction is indicated by the mihrab (a niche in the wall). Kneeling and lowering the head to the ground are gestures of humility and respect for Allah



VISITING A MOSQUE

Unusually in Morocco, the Mosque of Hassan II is open to non-Muslims on quided tours. It is important for both sexes to dress modestly when visiting the mosque. Shoes should be removed, and shoulders and knees covered. Men must take off their hats and women are asked to cover their hair with a headscarf.

Women's Gallery

Above two mezzanines, and hidden from view, this gallery extends over 57,000 sq ft (5,300 sq m) and can hold up to 5,000 women.



A Doors

■ Dome

Seen from the exterior, these are double doors in the shape of pointed arches framed by columns. Many are clad in incised bronze.

Royal Door





▲ Fountains

These are decorated with zellij tile work and framed with marble arches and columns.

Columns

Doors

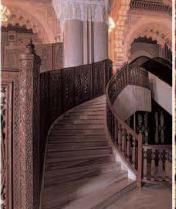
Windows

Wooden latticework mashrabiya screenwork at the windows protects those within from prying eyes.

Stairway to the Women's Gallery

The stairway features decorative woodcarving, multiple arches, and marble, granite, and onyx columns, arranged in a harmonious ensemble.

¥ Stairway to the women's gallery



< Minaret

Its vast size—it is the tallest minaret in the world—and exquisite decoration make this an exceptional building.

¥ Mosque viewed from the sea





Marble >

Royal Door >

This is decorated with traditional motifs engraved on brass and titanium.

▼ Dome

The cedarwood-paneled interior of the dome, over the prayer hall, glistens with carved and painted decoration







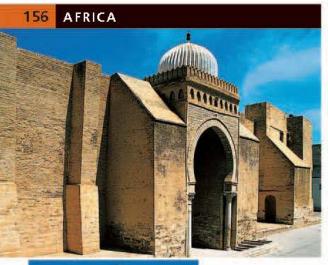




Prayer Hall







Great Mosque, Kairouan

Minaret

Most of the 400-odd marble and granite columns that support the roof of the prayer hall were taken from Roman and Byzantine sites elsewhere. Some, however, were carved by local craftsmen.

The Sidi Oqba Mosque, or Great Mosque, is the oldest and most impressive Muslim place of worship in North Africa and is Islam's fourth holiest site after Mecca, Medina, and Jerusalem. The founder of Kairouan, Ugba ibn Nafi, built a small mosque on the site in AD 670. As the city thrived, the mosque was rebuilt and enlarged several times: in 703, again in 774, in 836, and 863. It reached its current dimensions by the end of the 9th century, but its design and ornamentation continued to evolve up to the 19th century.

Sundial

Set a top a stepped

plinth in the courtyard, this indicates the times of prayer.



Ornately decorated column in the prayer hall

Wells

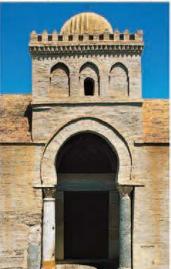
These provide the

the cistern—for

ritual ablutions.

water—drawn from

 ☐ Gstern



▲ Entrance to the Mosque There are two entrances to the prayer hall from the road. Non-Muslims are not permitted to enter, but they may look in through the open doors.

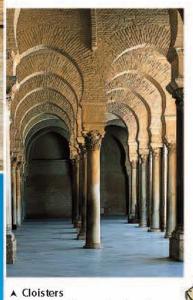
▼ Entrance to the Courtyard

Surrounding the courtyard on three sides are cloisters giving shade and protection from the elements.

∢ Minaret

Built between 724 and 728, this imposing square minaret is one of the oldest surviving towers of its kind, and is the oldest part of the Great Mosque. It rises in three sections, each diminishing in size, and is topped by a dome. The lower stories are built from blocks taken from Roman buildings. There are 129 steps leading up to the minaret's highest point.



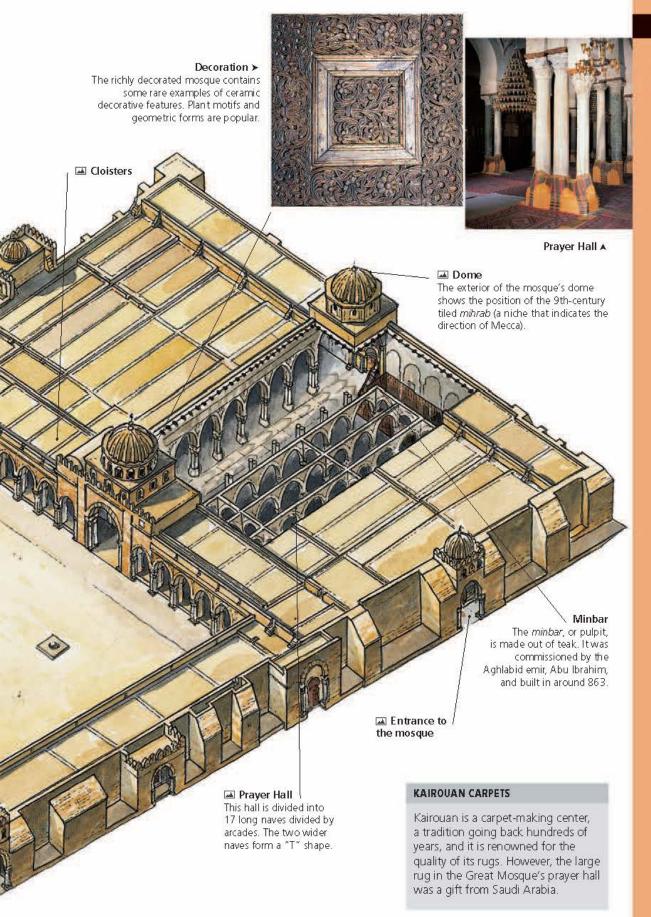


< Cistern

The courtyard slopes down toward its center, where there is a latticed plate shielding a cistern. The plate has a decorative function but also prevents the water, which drains into the cistern, from becoming polluted.

Entrance to the Courtyard Six gates are set into the wall surrounding the courtyard. The main entrance is through a gate surmounted by a dome.





KEY DATES				
670	836	Mid-800s	1988	
The city of Kairouan is founded by Uqba ibn Nafi, who constructs a small mosque.	The Great Mosque is renovated and enlarged under the Aghlabids and takes the appearance of the building seen today.	The Great Mosque becomes a site for Islamic pilgrimage.	Kairouan is declared a UNESCO World Heritage Site.	



UQBA IBN NAFI AND KAIROUAN

At the time of the Prophet Mohammed's death in 632, Muslims only ruled Arabia: However, by 750, the Arab Muslims had achieved one of the most spectacular conquests in history, ruling over the Middle East, Central Asia, and North Africa. In 670, the Muslim leader Ugba ibn Nafi crossed the desert from Egypt as part of the conquest of North Africa. Establishing military posts along the way, he stopped to camp at the location of modern-day Kairouan. Legend tells of a golden cup being discovered in the sand, which was recognized as one that had disappeared from Mecca several years previously. When the cup was picked up, a spring emerged from the ground which, it was declared, was supplied by the same source as that of the holy Zem-Zem well in Mecca. Ugba founded his capital and swept on to conquer Morocco.

ISLAM'S FOURTH HOLIEST CITY

Kairouan grew in importance to become the capital of the Aghlabid dynasty in the 9th century. When the Fatimids took power in 909, they moved their capital elsewhere. By the 11th century, Kairouan's political and economic power had been surpassed by other cities, but it never lost its holy status. As a religious center it continued to grow in prominence, with the mosque proving a powerful magnet for pilgrims from Muslim territories throughout northern and Saharan Africa. Today, Kairouan is Islam's fourth holiest city. Pilgrims come to drink the waters of the holy spring and to visit the Great Mosque.

INSIDE THE PRAYER HALL

Entrance to the **prayer hall** at the southern end of the courtyard is through a set of beautiful, finely carved wooden doors dating from the 19th century. Inside is a rectangular, domed chamber with arched aisles. The *imam* leads the prayers from the **minbar**, a marvelous pulpit sculpted out of wood from Baghdad and thought to be one of the oldest in the Arab world. Behind the *mihrab* (**dome**) at the end of the central aisle are 9th-century tiles, also from Baghdad, surrounding carved marble panels. A carved wooden screen, the *maqsura*, dating from the 11th century, stands nearby and many **Kairouan carpets** cover the floor.



THE CITY'S PORT

A promontory protects the harbor at the mouth of the Wadi Lebdah at Leptis Magna, and it is here that the Phoenicians settled in the 7th century BC. They exploited the fertile hinterland and traded olive oil, ivory, and animal skins throughout the Carthaginian empire and around the Mediterranean. During the early 3rd century AD, under the Roman emperor Septimius Severus, the harbor was rebuilt and enlarged. New guays, half-a-mile (1 km) long, were constructed, with warehouses, a temple, and a watchtower, and a lighthouse was built on the promontory. The mooring blocks on the quay, which were covered in sand soon after completion, have been well preserved.

EMPEROR SEPTIMIUS SEVERUS

The Roman ruler Lucius Septimius Severus was born in Leptis Magna in Roman North Africa in AD 146. Regarded as an outstanding soldier, Severus rose to the rank of consul and by 190 he was in command of the legions in Pannonia. Soon after the murder of Emperor Pertinax in 193, Severus was proclaimed emperor, but he had to fight off two rivals to secure his position. He was a strong but popular ruler, who was known for his lavish entertaining. His final campaign was to England in 208 to secure the Roman Empire's northern border at Hadrian's Wall. Severus died in York in 211, while preparing to invade Scotland.

THE EMPEROR'S NEW BUILDINGS

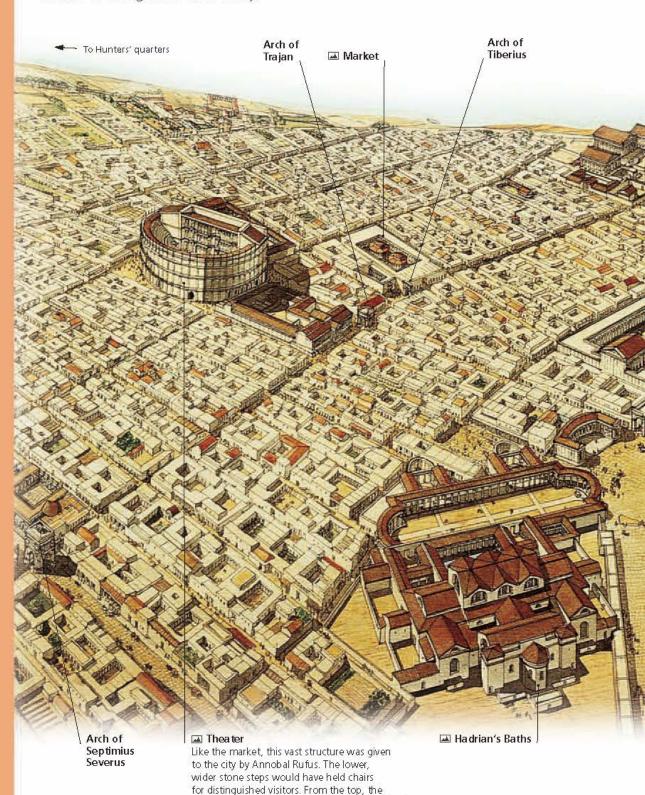
Leptis Magna prospered under Roman rule as a major commercial center, but at the beginning of the 3rd century, after the appointment of Septimius Severus as Roman emperor, the city underwent a transformation. Marble was imported from Asia Minor, Greece, and Italy, granite columns from Egypt, and the limestone buildings took on a grand appearance (Classical Style, see p. 137). In AD 200, Severus built a fine new Severan Forum. At the northeastern end, he constructed the three-aisled Severan Basilica. Its marble pilasters were carved with scenes from the lives of Hercules and Dionysus, his family's patron gods. The mighty four-sided Arch of Septimius Severus, constructed in white marble, was raised for his visit to the city

Leptis Magna

The location of some of the world's finest Roman remains, Leptis Magna attests to the prosperity and status of the Roman Empire in North Africa. Leptis Magna benefited greatly when Septimius Severus, a native of the city, became Roman emperor in AD 193. During his reign, the population grew to some 70,000 people, and buildings were raised to glorify his name. In the 6th century, attacks by nomadic tribes eventually led to the city's abandonment, at which point sand dunes engulfed it, preserving the site that is still being excavated today.



Column detail. Severan Basilica



panoramic view of the ancient city is magnificent.

KEY DATES				
600 BC	23 BC	523	1982	1994
A Phoenician trading post is founded on the site of Leptis Magna.	Leptis Magna forms part of the new Roman province of Africa.	The city is sacked by Berber Arabs, and by 650 it has been abandoned.	Leptis Magna becomes a UNESCO World Heritage Site.	A new archeological program begins at Leptis Magna.

Severan Basilica

RECONSTRUCTION OF

HUNTERS' QUARTERS

To the west of the city lies a group of well-preserved, small domed buildings. Wall paintings indicate they belonged to the hunters who supplied the amphitheaters of the Roman Empire with wild animals.

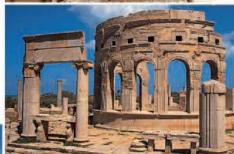
Lighthouse

Bust of Emperor Septimius Severus ¥



Severan Forum ¥ A series of vast reliefs of the mythological Greek Gorgon Medusa once adorned the arcade of the Severan Forum.

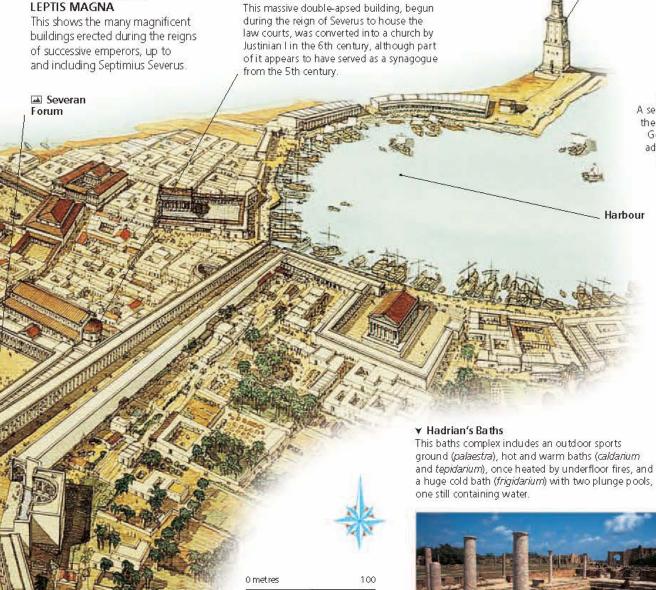




Market

Once surrounded by arcades and centered on two beautiful kiosks, this grand trading place was endowed by one wealthy citizen, Annobal Rufus, in 9-8 BC.

¥ Theatre



100

0 yards

▼ Severan Basilica







AFRICA

A King's Chamber

The chamber was probably emptied 600 years after being built, but, despite holding only a lidless sarcophagus, it was often broken into by treasure seekers.

Workers' graffiti

Stress-Relieving Chambers These were built out of huge blocks

up to 80 tons.

The Great Pyramid, Giza

The facts and figures about Pharaoh Khufu's pyramid, commonly referred to as the Great Pyramid, are staggering. It was the tallest building in the world until the 19th century, and the precision with which it was built, using simple surveying tools, is remarkable: the greatest difference in length between the four 756-ft (230-m) high sides is just 2 inches (5 cm). The construction methods and exact purpose of some of its chambers and shafts are unknown, but the architectural achievement is clear. The pyramid is estimated to contain over two million blocks of stone weighing on average 2.5 tons, with some weighing as much as 15 tons.

> This probably held a statue representing the ka, or life force, of the king.



Statue of Khufu (Cheops)



RECONSTRUCTION OF THE KING'S CHAMBER

The "air shaft"

would have been

closed off by the outer casing

Built to protect the chamber, the stress-relieving rooms also hold the only reference to Khufu in the Great Pyramid—gangs who built the pyramid left graffiti stating, "How powerful is the great White Crown of Khufu."

King's

Chamber

KEY DATES 2589-2566 BC 2555-2530 BC 1400 BC 1979 Pharaoh Khufu builds Construction of the The Sphinx is restored The Giza Plateau pyramids of Khafre the Great Pyramid for the first time; four is inscribed as a during his reign. and Menkaure more conservation UNESCO World on the Giza Plateau phases follow Heritage Site.

Underlying bedrock

Great Gallery

Unfinished underground chamber

> Vertical Shaft This probably served as an escape route for the workers.

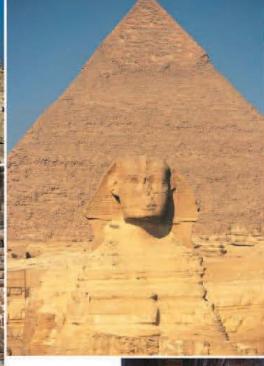


▲ Oueens' Pyramids

These three small pyramids were built for members of the king's family, although the actual identity of their occupants is unknown.



Entrance >



A The Sphinx and Pyramid of Khafre viewed from the Giza Plateau

high, this is thought to have

been used as a slipway

for the huge blocks that

sealed the passageway.



houses a reconstructed solar boat that might have been a funerary barque for Khufu. Discovered in 1954, the boat's 1,200 individual pieces took archeologists 14 years to put back together.



Great Gallery ➤ Soaring nearly 30 ft (9 m)

It took the ancient Egyptians around 400 years to progress from the mudbrick mastaba to the smoothsided pyramid. The last stage, from the stepped pyramid to the "true," or smooth-sided, pyramid took just 65 years. During this period, each pyramid was a brave venture into the unknown.

Mastaba

Around 3000 BC, the sandy mounds of the graves of the upper echelons of society were formalized into low, boxlike mastabas.



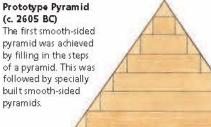
Stepped Pyramid (c. 2665 BC)

A more impressive memorial was made by putting six stone mastabas on top of each other.



(c. 2605 BC)

pyramid was achieved by filling in the steps of a pyramid. This was followed by specially built smooth-sided pyramids.





THE SPHINX

Dating back to 2500 BC and positioned at the entrance to the Pyramid of Khafre, the Sphinx is the earliest known ancient Egyptian sculpture. It stands 66 ft (20 m) high, with an elongated body, a royal headdress, and outstretched paws. It is carved from an outcrop of natural rock, augmented by shaped blocks around the base added during one of several renovations. It was once thought that the nose of the Sphinx was shot off by Napoleon's French army, but in reality it was lost before the 15th century.

THE GIZA PLATEAU

During the Egyptian 4th dynasty (2613–2498 BC), the Giza Plateau became the royal burial ground for Memphis, capital of Egypt. In less than 100 years, the ancient Egyptians built three pyramid complexes to serve as tombs for their kings. These consisted of the Great Pyramid, the Pyramid of Khafre (r. 2558-2532), and the Pyramid of Menkaure (r. 2532-2530). The Sphinx was added to guard the pyramids, while each king's close family and royal court were buried in satellite pyramids and mastaba tombs nearby. Of these, one of the most noteworthy is the 6th-dynasty (2345-2181 BC) tomb of Qar, a high-ranking official in charge of maintaining the Giza pyramids. His tomb is decorated with fine reliefs.

KHUFU

The second pharaoh of the 4th dynasty, Khufu (also known as Cheops) probably came to the throne in his 20s and reigned for about 24 years. The Greek historian Herodotus portrayed Khufu as a cruel and oppressive ruler, but this was belied by his posthumous reputation in Egypt as a wise king. Khufu is generally accepted as being the builder of the Great Pyramid—one of the seven wonders of the ancient world. Contrary to popular belief, this massive monument was not built by slaves, but by a conscripted workforce, and its enormous scale is a testament to the pharaoh's skills in harnessing the material and human resources of his country. Khufu's tomb was robbed long before archeologists discovered it, and his only likeness is a small ivory statue (statue of Khufu) found at Abydos, to the south of Giza.





A NEW LOCATION

When the Aswan Dam proved too small to control the floodwaters of the Nile River, the Egyptian government built the High Dam and created Lake Nasser as a reservoir. But the rising waters of the lake threatened to submerge Abu Simbel. Concern that the temples might be lost led UNESCO to back an international relief program, and in 1964 an ambitious four-year operation began, to move the two monuments to safety. The temples, complete with their artifacts, were cut into 950 blocks and transferred to a higher site against the backdrop of an artificial mountain (relocated temples).

THE GREAT STATUES

Three of the four 65-ft (20-m) high statues the Ramses II Colossi-gaze southward to deter even the most determined of the pharaoh's enemies. Their enormous size is thought to represent Ramses' divinity as a supreme god. The gods and Ramses' family feature prominently among the other statues. At the feet of the colossi stand figures of the pharaoh's mother, his wife, Queen Nefertari, and the royal children. Above the entrance to the Great Temple is the falcon-headed statue of the Sun god Ra-Harakhty. Hapi, the god of the Nile flood, who is associated with fertility, is featured holding lotus and papyrus, symbols of Upper and Lower Egypt respectively.

WRITING ON THE WALL

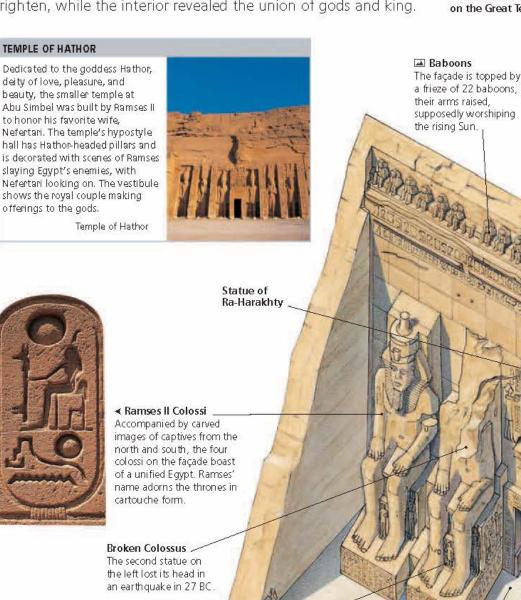
Graphic wall paintings and reliefs found in the Great Temple of Abu Simbel and the Temple of Hathor glorify Ramses II as a divine ruler. They tell of his victories and show him fighting his enemies. In the Temple of Hathor, Nefertari's consecration as divine queen is illustrated Surrounding the paintings and reliefs are detailed rows of hieroglyphs. This pictorial script, thought to have developed around 3200 BC, is the world's oldest known form of writing. The word "hieroglyph" means "sacred carved letter" and a complex system of 6,000 symbols was used by the ancient Egyptians to write their names and express their religious beliefs. Stories of the lives of Ramses and Nefertari have been engraved in this way on the walls of Abu Simbel

Abu Simbel

Hewn out of a solid cliff in the 13th century BC, the Great Temple of Abu Simbel and the smaller Temple of Hathor are a breathtaking sight. Although dedicated to the patron deities of Egypt's great cities—Amun of Thebes, Ptah of Memphis, and Ra-Harakhty of Heliopolis—the Great Temple was built to honor Ramses II. Its 108-ft (33-m) high facade, with four colossal enthroned statues of Ramses II wearing the double crown of Upper and Lower Egypt, was intended to impress and frighten, while the interior revealed the union of gods and king.



Carved baboon on the Great Temple



Statues of royal

family members

 □ Great Temple Façade Buried in sand for centuries,

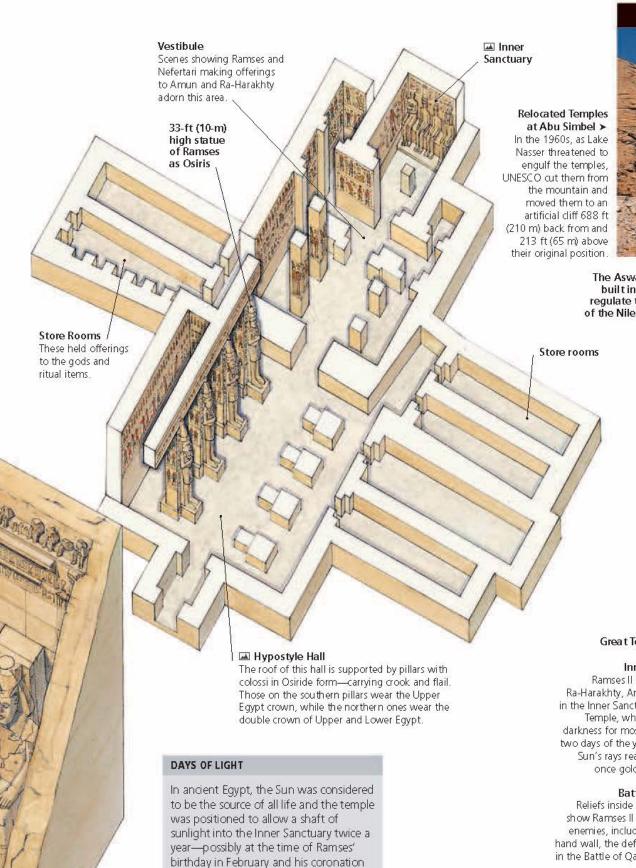
this façade was discovered in

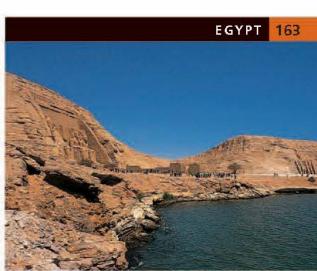
1813 by the Swiss explorer

Johann Ludwig Burckhardt.

Entrance to Great

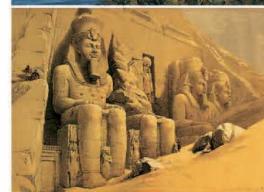
Temple





The Aswan Dam, built in 1902 to regulate the flow of the Nile River >

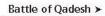




Great Temple Façade A

Inner Sanctuary >

Ramses II sits with the gods Ra-Harakhty, Amun-Ra, and Ptah in the Inner Sanctuary of the Great Temple, which is shrouded in darkness for most of the time. On two days of the year, however, the Sun's rays reach three of these once gold-covered statues.

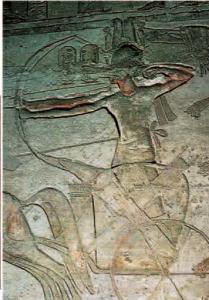


Reliefs inside the hypostyle hall show Ramses II defeating Egypt's enemies, including, on the righthand wall, the defeat of the Hittites in the Battle of Qadesh c. 1275 BC



Hypostyle Hall >





KEY DATES 1257 BC 1822 1979 1817 1968 Ramses II canves out The Egyptologist Jean-François The work to Abu Simbel is Champollion cracks reposition Abu declared a UNESCO the Great Temple and Giovanni Battista Temple of Hathor. Belzoni ventures the code to decipher Simbel is completed. World Heritage Site. inside the temples. Egyptian hieroglyphs.

day in October. The rays lit all but the

statue of Ptah, god of darkness.





166 AFRICA

A The mosque's imposing mud-brick façade

y Base

Djenné Mosque

With its striking façade and unique architectural style, the Djenné Mosque ranks among the most unusual and beautiful buildings in the world. This large, mud-brick structure is typical of the special African-Islamic "marriage" found on the continent, in which African societies have molded Islam to fit their own traditional beliefs, values, and concerns. A mosque is usually constructed with the finest materials available, but the Djenné Mosque is made with sun-baked mud (also known as adobe or pisé), which, in the skilled hands of the Mali mastermasons, has resulted in one of the most remarkable expressions of faith in Africa.





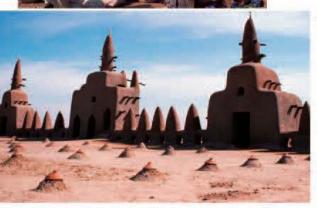




✓ Market
A colorful market is set up in front of the Djenné Mosque every Monday, attracting traders from the surrounding area. Djenné and its region are famous for the mud cloth sold here, known as bogolan.

Three Sloping Minarets
These are used by the *muezzin* (mosque official) to call the faithful to prayer. Staircases inside each minaret lead directly to the roof.





■ Wooden Beams

Wooden Beams A

Giving the mosque its distinctive "spiked" appearance, the palm beams not only support the mud walls, but also serve as a kind of permanent scaffolding for the annual repairs. Visually, they also relieve the solidity of the structure.

1819

KEY DATES

c. 1250-1300

Djenné town is founded on the Bani River and the first mosque is built. Djenné resists attacks by the Mali empire, remaining an independent city-state.

1300-1468

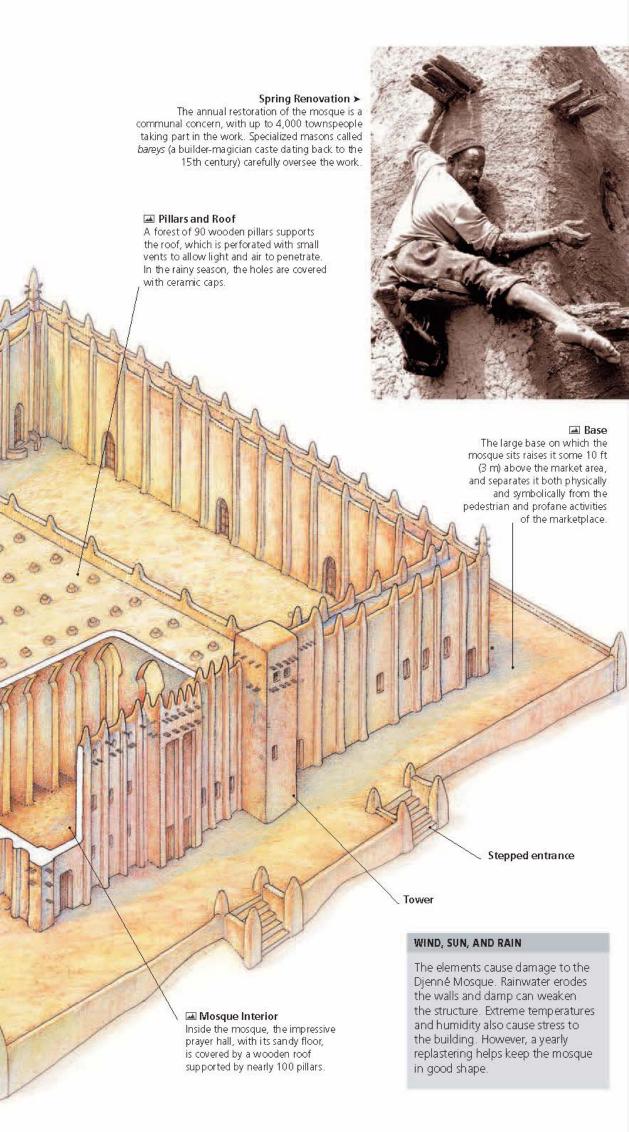
1468

The Songhay empire, one of the largest in Africa's history, captures and annexes Djennë. Djenné is taken by Morocco as part of its campaign to drive the Songhay empire out of the region. Cheikou Amadou abandons the old mosque and builds a new one on a different site. A third mosque is built on the foundations of the 13th-century original.

1907

Djenné Mosque is declared a UNESCO World Heritage Site.

1988





HISTORY OF DJENNÉ MOSQUE

Djenne's first mosque was built in 1280 by Koi Konboro, the 26th king of Djenné, following his conversion to Islam. As a demonstration of his allegiance to his new faith, the king had his royal palace knocked down and the mosque constructed on its site. Konboro's mosque survived until the early 19th century, when the fundamentalist Islamic king, Cheikou Amadou, eager to reinforce local Islamic religious practices, allowed it to fall into disrepair. He built a more austere mosque close by (now the site of an Islamic religious school). In 1907, the French administration in the town arranged for the original mosque to be rebuilt into the mudbrick structure seen today.

MOSQUE DESIGN

With its thick, battlemented walls and towers, and the peculiar "spiked" appearance of the projecting wooden beams, the mosque looks more like a fortress than a religious building. Its imposing exterior is made up of three sloping minarets, which stand over 33 ft (10 m) high, some towers, and a large base, accessible via a number of stepped entrances. The interior is not accessible to non-Muslims, but views of it can be had from the roofs of nearby houses. The art and skills of the masons have been handed down from generation to generation since the 15th century. The master-masons still mix the mud mortar by foot, and shape the mud bricks by hand. A simple iron trowel is their only tool, and is used for cutting the bricks and levelling the walls.

DJENNÉ TOWN

Founded in 1250 on one of the ancient trans-Saharan trade routes, Djenné quickly grew into a thriving center of commerce, attracting merchants from across Africa. Textiles, brass, ceramics, and copperware were exchanged for Sahel gold, ivory, and precious Saharan salt. By the end of the 13th century, Islam had also arrived, brought to Djenné by Muslim merchants from North Africa, and the first mosque was built. By the 14th century, Djenné had become an important center of Islamic learning, and also one of the wealthiest and most cosmopolitan towns in sub-Saharan Africa.



THE WILLIAM FEHR COLLECTION

The castle houses the famous William Fehr Collection of paintings, decorative arts, and furniture. Dr. Fehr (1892-1968) was a local businessman who started collecting colonial pictures and objects at a time when the practice was unusual. His collection now forms an invaluable record of many aspects of social and political life in the Cape, from the early days of the Dutch East India Company (VOC in Dutch) to the end of the 19th century. In addition to landscape paintings by the English artists Thomas Baines and William Huggins, there is 17th-century Japanese porcelain and 18th-century Indonesian furniture

COMMANDER JAN VAN RIEBEECK

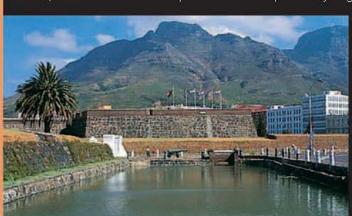
In April 1652, the Dutchman Jan van Riebeeck arrived at the Cape with about 80 men and women to establish a staging post for the Dutch East India Company. This was needed to provision the Dutch ships plying the lucrative trade route between Europe and Asia. Despite setbacks (20 men died during that first winter), the station eventually flourished and began to provide ships with meat, milk, and vegetables. However, rivalry with the indigenous Khoina people over water and grazing soon turned into open hostility and bitter wars followed.

THE CASTLE

The design of the castle was influenced by the work of the French military engineer Vauban, who was employed at the court of King Louis XIV. Pentagonal in shape, it has five defensive bastions from which the outside walls could be defended by cross-fire. The original entrance faced the sea, but it was moved to its present position in 1684. From the beginning, the castle was intended as a base for the Dutch East India Company in the Cape. Over the years, buildings were erected inside the courtyard, and a defensive 39-ft (12-m) high inner wall was built across it. Today, this area is the site of the William Fehr Collection. The castle also housed facilities to support a community, with living quarters, a church, a bakery, offices, and a jail with a torture chamber. In the 1930s, a new banqueting hall was created from a series of rooms on an upper floor

Castle of Good Hope, Cape Town

The oldest surviving building in South Africa, the Castle of Good Hope was built by the Dutch East India Company between 1666 and 1679, replacing an earlier clay and timber fort erected by Commander Jan van Riebeeck in 1652. The castle overlooks Cape Town's Grand Parade and is now home to a military museum, an art collection, and a banqueting hall; it is also the headquarters for Cape Army regiments.



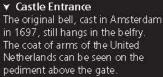


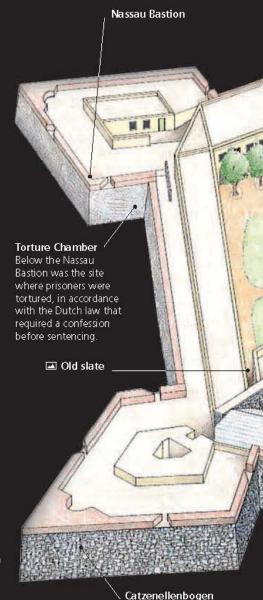




Slate was taken from a quarry on Robben Island in the 17th century and



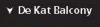




Dutch East India Company (VOC) monogram

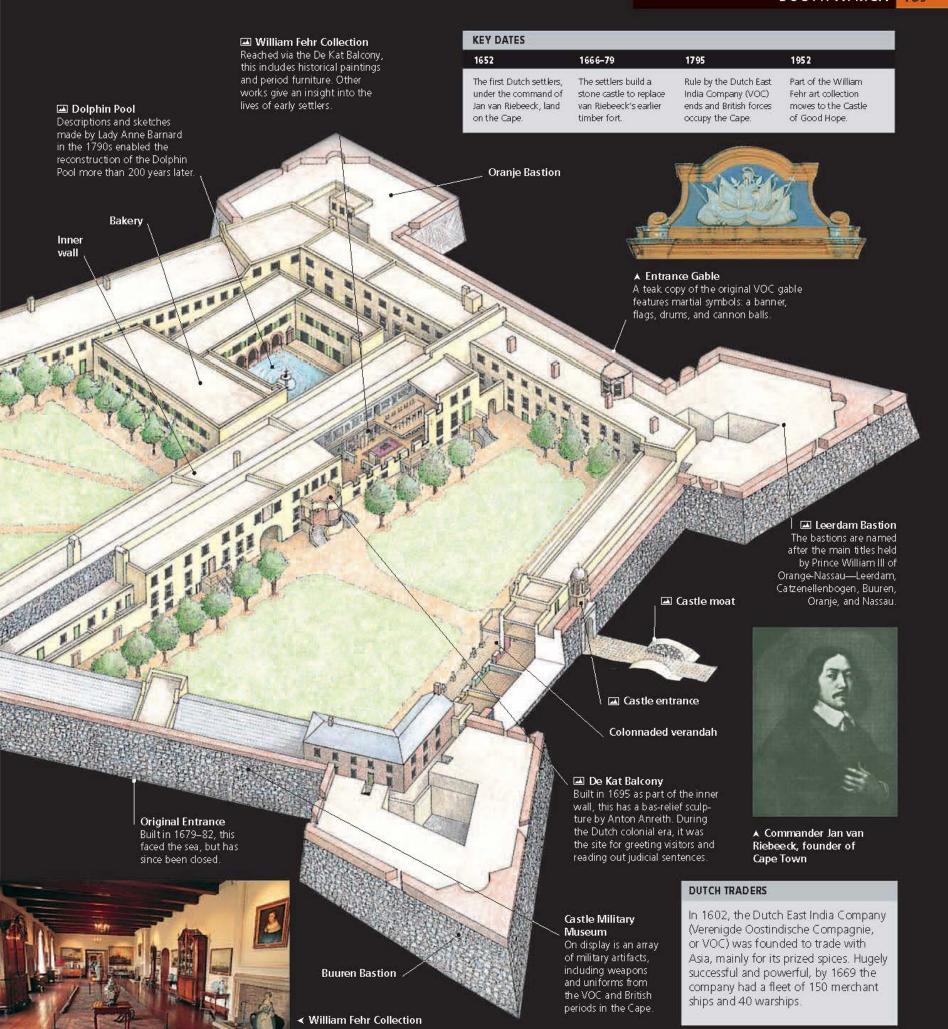


▲ Leerdam Bastion



Bastion







ASIA





INSIDE THE CASTLE

Krak des Chevaliers (Castle of the Knights) crowns a 2,133-ft (650-m) high hill at Homs Gap, commanding the route from Antioch to Beirut. The crusading Knights Hospitallers undertook a massive expansion program in the mid-12th century, adding a 100-ft (30-m) thick outer wall, seven guard towers, and **stables** for 500 horses. An inner reservoir, filled with water from an **aqueduct**, supplied the 4,000-strong garrison. Storerooms were stocked with food produced by local villagers, and the castle had its own olive presses and a bakery. The later Muslim occupants converted the Crusaders' **chapel** into a mosque and also added refinements such as **baths** and pools.

THE FINAL CONQUEST

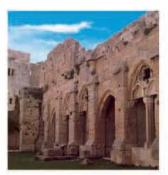
The Crusaders continued their campaigns in the Middle East throughout the 12th and into the 13th centuries, but Krak remained secure. In 1163, the Knights successfully fought off Nuradin, the sultan of Damascus. In 1188, the Muslim leader Saladin attempted to lay siege to the castle, but finding it impenetrable, withdrew his forces. Finally, in 1271, the Mameluk sultan Baibars I, devised a scheme. He forged a letter, purportedly from the Crusader commander in Tripoli, instructing the army at Krak to surrender. Baibars' forces succeeded in taking the Crusaders' bastion without so much as a fight.

TANCRED, PRINCE OF ANTIOCH

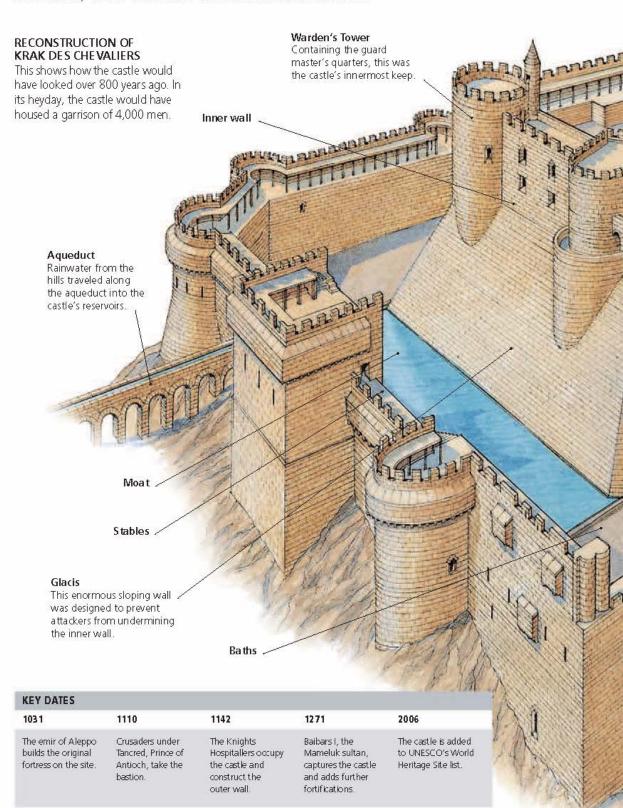
In 1096, Tancred of Hauteville (1078-1112) set out with his uncle, Bohemund, and other Norman lords on the First Crusade to the Holy Land. Their objective was to halt the advance of the Seljuk Turks, who were threatening the Byzantine Empire, and to claim Jerusalem for the Christians. Tancred made a name for himself when he captured Tarsus from the Turks. He played a major role in the siege of Antioch and led the march on Jerusalem (1099) and its occupation. A year later, when Bohemund was taken prisoner by the Turks, Tancred took control of the Principality of Antioch. He ruled supreme in northern Syria, mounting attacks on both the Turks and Byzantines. In 1110, he occupied the hilltop fortress that the Crusaders were to transform into Krak des Chevaliers.

Krak des Chevaliers

One of the greatest castles in the world, Krak des Chevaliers was built in the middle of the 12th century by the Crusaders. Having captured Jerusalem and the Holy Land from the Muslims, they required strong bases from which to defend their newly won territories. The largest of a string of such fortresses, Krak des Chevaliers withstood countless attacks and sieges, but the Crusaders abandoned it after their defeat at the hands of the Arabs in 1271. Villagers settled within the walls and remained there until the 1930s, when the castle was cleared and restored.



Ruins of a 12th-century Gothic church within Krak des Chevaliers



General view of Krak des Chevaliers >

Tower of the

King's Daughter

Inner fortress

III

Loggia



Outer wall

Tower of the King's Daughter >

The northern face of this tower has a large projecting gallery from which rocks could be hurled if the outer wall was breached. At ground level, the tower is decorated with three blind arches.



Loggia ➤

Krak des Chevaliers,

the Crusaders magnificent fortress >

Running along one side of Krak's innermost courtyard, the loggia is a graceful Gothic arcade with a vaulted ceiling (Gothic Style, see p54). It is decorated with carved floral motifs and depictions of animals. Beyond the loggia is the Great Hall, which functioned as a refectory.



Chapel

Built by the Crusaders and converted into a mosque after the Muslim conquest, its Islamic minbar (pulpit) can still be seen.

Main entranceway



A long, stepped passage leads from the site of the former drawbridge to the upper castle. Small ceiling apertures throw light into the corridor, although they were also intended for pouring boiling oil over invaders. The passageways were high and wide enough to allow for mounted riders.



Entrance Passage The passage doubled back on itself to confuse any invaders who managed to get this far into the castle.

THE PERFECT CASTLE

The British author T. E. Lawrence ("Lawrence of Arabia") described Krak des Chevaliers as "the most wholly admirable castle in the world." Indeed, the castle served as an inspiration for Edward I, king of England, who passed by on the Ninth Crusade in 1272 and returned home to build his own castles across England and Wales.

A FORTRESS WITHIN A FORTRESS

Krak des Chevaliers has two distinct parts, separated by a moat—an outer wall with 13 towers, and an inner wall and glacis built around a higher, rocky platform. Anyone attacking therefore had to, in effect, breach two castles.

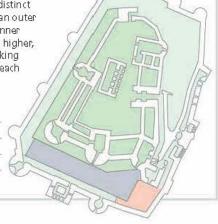
KEY

Baths

■ Moat

Inner walls

Outer walls





GOLGOTHA

Inside the church, two staircases lead up to Golgotha, meaning "Place of the Skull" in Hebrew. On the left is a Greek Orthodox chapel, with its altar placed directly over the rocky outcrop on which the cross of Christ's Crucifixion is believed to have stood (Rock of Golgotha) The crack in Golgotha, visible from the apse of the Chapel of Adam below, is believed to have been caused by the earthquake that followed Christ's death. To the right is a Roman Catholic chapel containing a silver and bronze altar made in 1558 and donated by Cardinal Ferdinand de Medici. In between the two altars is the Stabat Mater, an altar commemorating Mary's sorrow at the foot of the cross.

THE STATUS QUO

No fewer than 17 churches are represented in Jerusalem, a result of many historical schisms. The long, fierce disputes between Christian creeds over ownership of the Church of the Holy Sepulcher were largely resolved by an Ottoman decree issued in 1852. Still in force, and known as the Status Quo, it divides custody of the church among Greeks, Armenians, Copts, Roman Catholics, Ethiopians, and Syrians. Some areas are administered communally. Every day, the church is unlocked by a Muslim keyholder acting as a "neutral" intermediary. This ceremonial task has been performed by a member of the same family for generations.

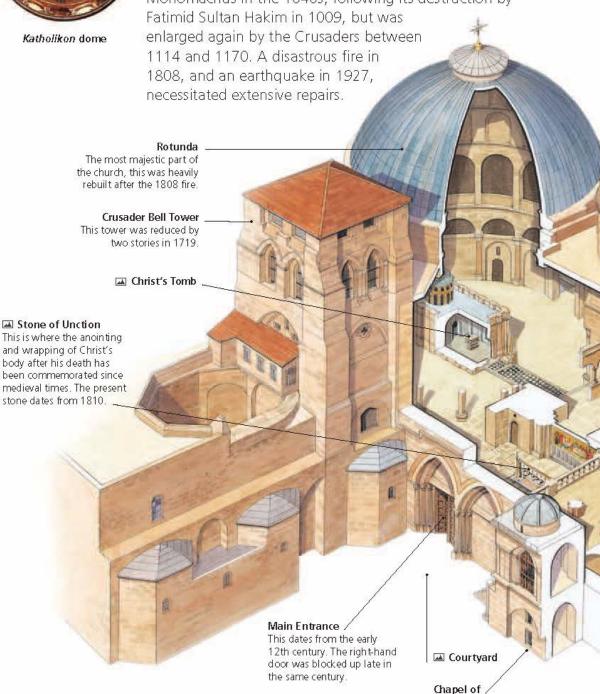
CHRIST'S TOMB

For the construction of the first church, builders dug away the hillside to leave the alleged Christ's Tomb isolated, with enough room to build a church around it. To achieve this, an old temple had to be cleared from the site, and in the process, the Rock of Golgotha, believed to be the site where Christ was nailed to the cross, was found. A succession of shrines replaced the original 4th-century one. The present shrine, with two chapels, was rebuilt in 1809-10 after a fire. The outer Chapel of the Angel has a low pilaster with a piece of the stone said to have been rolled from the mouth of Christ's tomb by angels. A low door leads to the inner Chapel of the Holy Sepulcher, which houses the place where Christ's body was said to have been laid.

Church of the Holy Sepulcher, Jerusalem



Built around what is believed to be the site of Christ's crucifixion, burial, and resurrection, this complex church is the most important in Christendom. The first basilica here was built by the Roman emperor Constantine between 326 and 335 at the suggestion of his mother, St. Helena. It was rebuilt on a smaller scale by the Byzantine emperor Constantine Monomachus in the 1040s, following its destruction by Fatimid Sultan Hakim in 1009, but was enlarged again by the Crusaders between

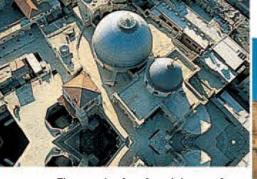


THE FIRST CHURCHES

Christianity became the dominant religion in the Holy Land in the 4th century, and impressive churches were built. Before then, Roman suspicion of unauthorized sects meant that Christians were forced to meet and worship in private "housechurches" called domus ecdesia

KEY DATES				
326-35	1114-70	1981		
Emperor Constantine and St. Helena have the first basilica built.	Crusaders enlarge the building in the Romanesque style and add a bell tower.	The Old City of Jerusalem joins the list of UNESCO World Heritage Sites.		

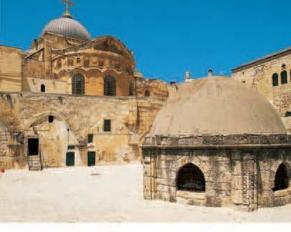
the Franks



A The mosaic of roofs and domes of the Church of the Holy Sepulchre

Katholikon Dome

Rebuilt after the 1927 earthquake and decorated with an image of Christ, this dome covers the central nave of the Crusader church. This part of the building is now used for Greek Orthodox services.



Center of the World Jerusalem was once viewed as the spiritual center of the world, as

in the katholikon.

▲ The Holy Sepulcher seen from the roof of the Chapel of St. Helena

Seven Arches of the Virgin

These are the remains of a colonnaded courtyard built in the 11th century.

¥ Stone of Unction



Christ's Tomb >

For Christians, this is the most sacred site of all. Inside the 1810 monument, a marble slab covers the rock on which Christ's body is believed to have been laid.

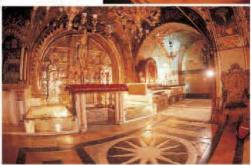
< Courtyard

The main entrance courtyard is flanked by chapels. The disused steps opposite the bell tower once led to the Chapel of the Franks, the Crusaders' ceremonial entrance to Golgotha.

¥ Ethiopian Monastery







A Rock of Golgotha

The outcrop of rock venerated as the site of the Crucifixion can be seen through the glass around the Greek Orthodox altar.



Chapel of St. Helena

This chapel is now dedicated to St. Gregory the Illuminator, patron saint of the Armenians.

> Stairs to the Inventio Crucis Chapel

THE HOLY FIRE

Ethiopian Monastery Living in the cluster of

small buildings on the

roof of the Chapel of St.

Helena is a community

of Ethiopian monks.

On the Saturday of Orthodox Easter, all the church's lamps are put out and the faithful stand in the dark—a symbol of the darkness at Christ's Crudifixion. A candle is lit at Christ's Tomb. then another and another, until the entire basilica and courtyard are ablaze with light, symbolizing the Resurrection. Legend says the fire comes from heaven.



The Orthodox Easter ceremony of the Holy Fire





Octagonal arcade of the Dome of the Rock, above which are Koranic verses

Dome of the Rock, Jerusalem

Considered one of the first and greatest achievements of Islamic architecture, the Dome of the Rock is a shrine constructed in AD 688-91 by the Omayyad caliph Abd el-Malik. Built to proclaim the superiority of Islam and provide an Islamic focal point in the Holy City, the majestic structure now dominates Jerusalem and is its symbol. The mathematically harmonious structure echoes elements of Classical and Byzantine architecture (Classical Style, see p.137 and Byzantine Style, see p.148).



Tile above the south entrance



▼ View of the Dome of the Rock with the Muslim quarter in the background

 Freestanding arcades top the eight flights of steps up to the Dome





▼ Well of Souls

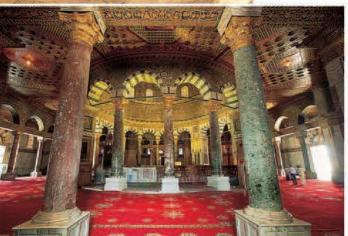
This staircase leads down to a chamber under the Rock called the Well of Souls. The dead are said to meet here twice a month to pray.





The space between the inner and outer arcades forms a corridor around the Rock. The

shrine's two corridors recall the ritual circular movement of pilgrims around the Qaaba in Mecca

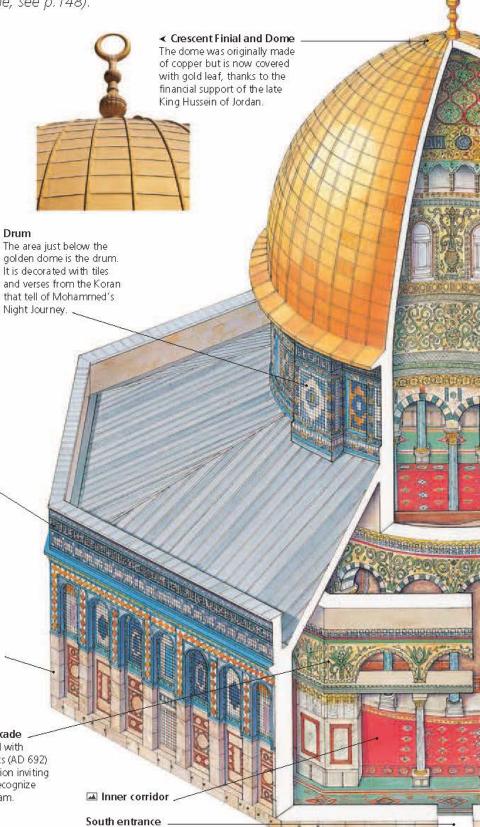


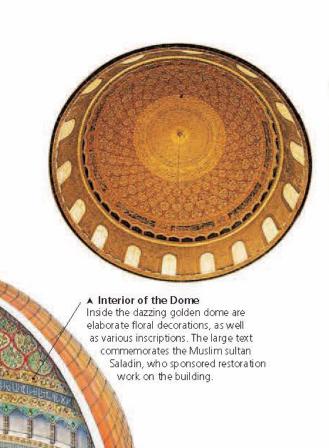
Marble panel

Koranic

verses

Octagonal Arcade This is adorned with original mosaics (AD 692) and an inscription inviting Christians to recognize the truth of Islam.





Mosaics

Well of Souls

Green and gold mosaics

create a scintillating

effect on the walls

below the dome.

KEY DATES

691

Building work on the Dome of the Rock is completed.

Outer corridor

15 00s

Suleyman the Magnificent commissions the dazzling tile work on the exterior.

1981

The Dome of the Rock joins UNESCO's list of World Heritage Sites.

HOLY SITE

One of the oldest and most beautiful of all Islamic monuments, the Dome of the Rock is the third holiest site of Islam after Mecca and Medina. The shrine is also important in Judaism, since it stands on the site of the two temples of the Jews—the first built by King Soloman and the second by King Herod.



A Tile Work

The multicolored tiles that adorn the exterior are faithful copies of Persian tiles that Suleyman the Magnificent added in 1545 to replace the damaged original mosaics.

Stained-glass window

■ The Rock

The Rock is variously believed to be where Abraham was asked to sacrifice Isaac, where Mohammed left the Earth on his Night Journey, and the site of the Holy of Holies of Herod's Temple.

Outer Wall

Each wall is 67 ft (20.4 m) long. This exactly matches the dome's diameter and its height from the base of the drum.



MOHAMMED'S NIGHT JOURNEY

The Koran, the holy book of Islam, is regarded as the exact word of Allah. Muslims believe that it can never be truly understood unless read in Arabic; translations into other languages can only ever paraphrase. The Koran is divided into 114 chapters, covering many topics. One of the core episodes recounts the Night Journey of the Prophet Mohammed. In this, he is carried from Mecca to Jerusalem and from there makes the Miraj, the ascent through the heavens to God's presence, returning to Mecca in the morning. The story is illustrated with geometric tiling and verses on the exterior of the drum of the Dome of the Rock.

HARAM ASH-SHARIF

The Temple Mount, or *Haram ash-Sharif*, is located in the southeastern part of the Old City of Jerusalem. It is a major Islamic religious sanctuary and home to a number of important buildings, including the Dome of the Rock. Traditionally the site of Solomon's Temple, it later housed the Second Temple, enlarged by Herod the Great and destroyed by the Romans. Left in ruins for more than half a century, the *Haram ash-Sharif* became an Islamic shrine in 691 with the construction of the Dome of the Rock.

THE DOME OF THE CHAIN AND THE GOLDEN GATE

Just east of the Dome of the Rock stands the small Dome of the Chain, set at the approximate center of the Haram ash-Sharif. The reasons given for its construction are varied. According to one theory, it sits at the site of the Holy of Holies (the most sacred and inaccessible place in Herod's Temple), which is thought of in Jewish tradition as the omphalos, the navel of the universe. The Dome of the Chain is a simple structure with a domed roof supported by 17 columns. It is famous for its marvelous 13th-century interior tiling, which surpasses even that of the Dome of the Rock. Its name derives from the legend that a chain once hung from the roof and whoever told a lie while holding it would be struck dead by lightning. Farther east is the Golden Gate, one of the original Herodian city gates. Jews believe the Messiah will enter Jerusalem through this gate.



INSIDE THE FORTRESS

The cliff-top plateau of Masada is surrounded by two walls, 4,593 ft (1,400 m) long and 13 ft (4 m) wide. Within, King Herod built palaces, barracks, and storehouses. His private retreat, the splendid northern Hanging Palace, extended over three terraces, cut into the cliff face and connected by steep staircases. The rooms were lavishly decorated with mosaic floors. Walls and ceilings were painted to resemble stone and marble, and elegant columns surrounded balconies and courtyards. His other residence, the larger Western Palace, served as the administrative center and contained Herod's throne room and apartments.

THE ZEALOTS

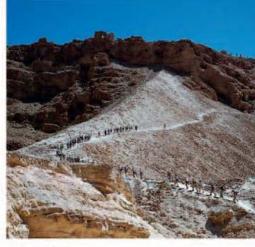
Around the time of Herod's death in 4 BC, the inhabitants of Masada became embroiled in a rebellion against Rome. The uprising was led by Judas of Galilee, founder of the Zealots, a militant Jewish sect that vehemently opposed the Romans because of their pagan beliefs. The Romans crushed the rebellion and took Masada. In AD 66, at the start of the First Jewish Revolt, the Zealots regained the mountaintop. They lived among the palaces, using the fortress as a base to conduct raids against the Romans. At the time of the Roman siege of Masada, there were 1,000 inhabitants.

HEROD THE GREAT

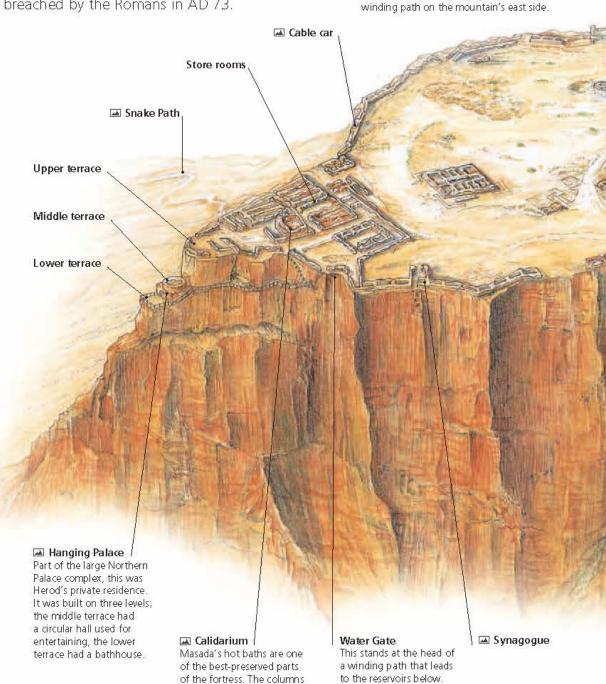
Herod was born in 73 BC, the son of a Jewish father, Antipater, and an Arab mother, Cyprus. Herod, like his father, was a practicing Jew. Antipater was the right-hand man of Hyrcanus, King of Judaea (r. 76-30 BC), and instrumental in Herod's first appointment at the age of 16 as governor of Galilee. With cunning and ruthlessness, Herod moved up the political ladder. He married the king's daughter, found favor with his Roman overlords, and was ultimately crowned king of Judaea himself in 37 BC. He embarked on a massive building program, which included a modern port, Caesarea, fortresses such as Masada, and the grand reconstruction of the Temple in Jerusalem. Orthodox Jews, however, considered him racially impure and were incensed by his tyrannical rule and his excessive taxes

Masada

This isolated mountaintop fortress, around 1,300 ft (440 m) above the banks of the Dead Sea, is believed to be the location of the oldest synagogue in the world. Masada was fortified as early as the 1st or 2nd century BC and then enlarged and reinforced by Herod the Great, who added two luxurious palace complexes. On Herod's death, the fortress passed into Roman hands, but it was captured in AD 66 during the First Revolt by Jews of the Zealot sect. After the Romans crushed the rebels in Jerusalem, Masada remained the last Jewish stronghold. It was heroically defended for more than two years before the walls were breached by the Romans in AD 73.



▲ Snake Path As an alternative to the cable car, visitors can reach the fort by hiking up the steep



on which the original floor

the room, can still be seen.

was raised, to allow hot air to circulate underneath and heat

THE SURVIVORS

The story of the Roman siege of Masada, and the mass suicide of the Jewish inhabitants, was told by two women survivors. They had escaped the killings and the devastating fire lit by the last man before he, too, took his life, by hiding with their children in a cave.

Columbarium

This is a small building with niches for funerary urns; it is thought the urns held the ashes of non-Jewish members of Herod's court.



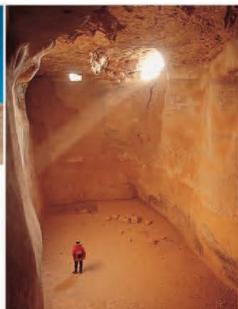
A Cable Car

Cistern

A large number of pilgrims visit this rocky mountain citadel every year. The cable car was installed to ease their tiring journey.

Southern

Citadel



< Cistern

At the foot of the mountain, Herod built dams and canals that collected the seasonal rainwater to fill cisterns on the northeastern side of the fortress. This water was then carried by donkey to the cisterns on top of the rock, such as this one in the southern part of the plateau.

¥ Calidarium









▲ Synagogue

Possibly built by Herod, this synagogue is thought to be the oldest in the world. The stone seats were added by the Zealots.



Hanging Palace A

and frescoes adorning the walls. West Gate

Roman Ramp

This is now the western entrance to the site.

KEY DATES

37-31 BC	1963	2001
King Herod starts	Excavations of	UNESCO declares
his grandiose building	the Masada	Masada a World
project.	stronghold begin.	Heritage Site.

THE ROMAN SIEGE OF MASADA (AD 70-73)

Western Wall

Western Palace

Used for receptions and the

the Western Palace was richly

decorated, with mosaic floors

accommodation of Herod's guests,

According to a 1st-century account by Roman historian Flavius Josephus, the Roman legions laying siege to Masada numbered about 10,000 men. To prevent the Jewish rebels from escaping, the Romans surrounded the mountain with a ring of eight camps, linked by walls—an arrangement that can still be seen today. In order to make their attack, the Romans built an enormous earthen ramp up the side of the mountain. Once this had

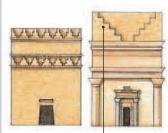
been completed, a tower was constructed against the walls. From the shelter of this tower, the Romans set to work with a battering ram. The defenders hastily erected an inner defensive wall, but this proved little obstacle and Masada fell when it was breached. Rather than submit to capture, slavery, or execution, the Jews inside the fortress chose to commit mass suicide. Josephus relates how each man was responsible for killing his own family.



Remains of one of the Roman base camps, viewed from the top of the fortress

THE ARCHITECTURE OF PETRA

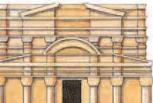
The Nabataeans were adventurous architects, always creating a distinctive look. The multiple crowstep is seen as a design of the first settlers, whereas Nabataean Classical buildings reflect a later period. The dating of the façades is very difficult, as many examples of the "early" style appear to have been built during the Classical period, or even later.



This intermediate style, which is frequently seen at Petra, placed multiple crowsteps with a single-divide crowstep, and added Classical cornices and pillars and Hellenistic doorways.

This early design was probably inspired by Assyrian architecture

Single-divide crowstep, lending height



Nabataean Classical designs, such as the Bab el-Sig Tridinium here, are complex, possibly experimental fusions of Classical and native styles.

The stacked look favored by the Nabataeans

Vertical Foothold

This may have been added to aid the sculptors.

Petra

Set deep in the rock and protected by the walls of a valley is one of the world's most marvelously preserved and impressive archeological sites: Petra. There has been human settlement here since prehistoric times, but before the Nabataeans came, Petra was just another watering hole. Between the 3rd century BC and the 1st century AD, they built a superb city, the center of a vast trading empire. In AD 106, Petra was annexed by Rome. Christianity arrived in the 4th century, the Muslims in the 7th, and the Crusaders in the 12th. Petra then lay forgotten until the early 19th century.



★ Theater Vaults

KEY DATES				
3rd century BC	1100s	1812	1985	
The Nabataeans settle in Petra and make it their capital.	Petra falls into decline after the departure of the Crusaders.	J. L. Burckhardt is the first European to visit Petra.	Petra joins UNESCO's World Heritage list.	

The eagle, a Nabataean male deity symbol

"Attic" Burial Chambers These were a device to protect the dead from animals and tomb robbers.

Single-divide Crowstep This was a design devised by the Nabataeans to complement the Classical cornice.

Outer Siq Designs

Treasury **Tholos**

Mounted Figures

Castor and Pollux, sons of Zeus, flank the portico.

THE OUTER SIQ

The artwork above shows some of the major constructions on the left-hand side of the Outer Sig, leading from the Treasury to the Theater. In reality, of course, the route bends and twists, and on both the left and right sides are a great number of other tombs and features of architectural interest.

A colossal doorway dominates the outer court and leads to a 129 sq-ft (12 sq-m) inner chamber. At the back of the chamber is a sanctuary with an ablution basin, suggesting that the Treasury was, in fact, a temple.

Stairway to High Place of Sacrifice

> ■ To the Street of Façades



← Outer Sig Designs

A range of intermediate design styles are displayed throughout, including on the Treasury and Theater tombs. One free-standing tomb uniquely combines Classical features with a crowstep used as a battlement.

¥ Treasury interior, door in the outer court

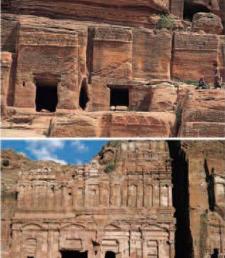


Roman Theater

The central figure may be the Petran fertility goddess El-Uzza. Bullet marks in the tholos and urn have been made over the years by Bedouins attempting to release hidden treasure.

Street of Façades >

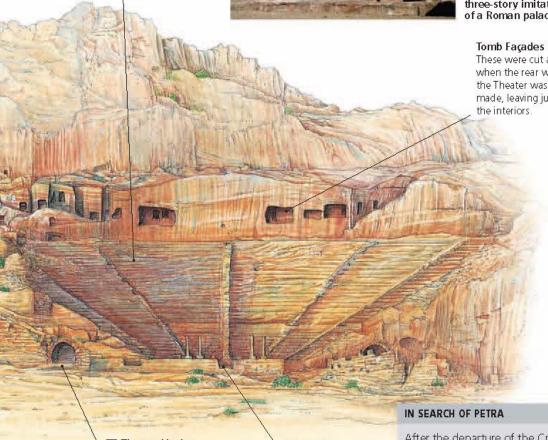
Carved on four levels, these tightly packed tombs may include some of Petra's oldest façades. Most are crowned with multiple crowsteps.





∢ The Palace Tomb, a three-story imitation of a Roman palace

These were cut away when the rear wall of the Theater was being made, leaving just



For access, there were tunnels on each side of the stage. Inside, these were dressed with painted plaster or marble.

Stage Wall

This would have hidden the auditorium from the Outer Sig.

After the departure of the Crusaders in the 12th century, Petra lay almost forgotten for more than 500 years. In 1812, lured by tales of a lost city, the Swiss explorer Johann Ludwig Burckhardt managed to persuade a quide to lead him to Petra.



THE SIO

Access to Petra is through a deep ravine called the Sig, which is preceded by a wide valley called the Bab el-Sig. The entrance to the Sig is marked by the remains of a monumental arch and is the start of a gallery of intriguing insights into the Nabataeans. These include rock-cut water channels, graffiti, carved niches with worn outlines of ancient deities, paving stones, and flights of steps leading nowhere. As the Sig descends it becomes almost imperceptibly deeper and narrower (at its narrowest, the walls are only 3 ft/1 m apart). At its deepest, darkest point, the Sig opens out before Petra's most thrilling monument: the Treasury. From here, the path leads into the Outer Sig.

THE ROYAL TOMBS

Carved into the base of El-Khubtha mountain, where the Outer Sig opens out onto Petra's central plain, are the Corinthian, Palace, and Urn tombs. Together they are known as the Royal Tombs. Their monumental size suggests they were built for wealthy or important people, possibly Petran kings or queens. These tombs and their neighbors are also remarkable for the vivid striations of color rippling through their sandstone walls, an effect heightened in the warm glow of the late afternoon sun. Particularly striking are the Silk Tomb and the ceiling in the Urn Tomb.

THE NABATAEANS

The Nabataeans migrated west from northeast Arabia in the 6th century BC, eventually settling in Petra. As merchants and entrepreneurs, they grasped the lugrative potential of Petra's position on the spice and incense trade routes from East Asia and Arabia to the Mediterranean. By the 1st century BC, they had made Petra the center of a rich and powerful kingdom that extended from Damascus in the north to the Red Sea in the south and had built a city large enough to support 20-30,000 people. Key to their success was their ability to control water. Conduits and terra-cotta piping can be seen along the walls of the Siq—part of an elaborate city water system. Petra continued to thrive under the Romans from AD 106, but changes in trade routes eventually led to its demise



BUILDING THE REGISTAN

The three medresas were built over a period of 230 years. The first was the **Uluq Beq**, begun in 1417. Directly opposite, the Sher Dor ("Lion Bearer"), modeled on the Uluq Beg, was added two centuries later. Its unconventional façade depicts live animals and human faces (an interpretation of the Koran forbids this). The combined mosque and medresa of Tilla Kari ("Gold Decorated") was added in the mid-17th century. Its ceiling appears domed, but is, in fact, flat-an effect created by the decreasing pattern size toward the center. The two later buildings were inspired by the earlier Timurid style

A CENTER OF SCIENCE AND LEARNING

With room for over 100 students and teachers, lodged in 52 cells around the courtyard, the Uluq Beq was effectively a university. Unlike the traditional medresa, which was wholly devoted to Islamic studies, students here also received an education in mathematics and the sciences. This was a reflection of Ulug Beg's passions. Known as the "astronomer king," he endowed Samarkand with one of the world's earliest observatories: a two-story structure built on a hill and meant to serve as a giant astronomical instrument pointing at the heavens. Only its circular foundations survive.

GOLDEN SAMARKAND

Until recently, the portion of Central Asia once called Transoxania (roughly modern Uzbekistan, and parts of Kazakhstan and Turkmenistan), was isolated and largely forgotten. But in the Middle Ages, it was the glittering center of the Islamic world, its cities boasting grand palaces and mosques. Most magnificent of all was Samarkand. Already renowned by the time of Alexander the Great, the city owes its legendary reputation to the leader of the Timurid empire, Timur (1336-1405), Brutal and despotic, Timur was responsible for around 17 million deaths. as a result of his military campaigns. However, with the riches he accrued, and the artisans he captured and sent back to Samarkand, he built a city that became a political, religious, cultural, and commercial capital whose influence extended across the known world

The Registan, Samarkand

The three buildings surrounding Samarkand's Registan Square comprise one of the world's most spectacular architectural ensembles. In the 15th century, Ulug Beg, grandson of the Turkic conqueror Timur, built a group of mosques,



Stunning interior of the Tilla Kari Medresa

caravanserais (merchants' inns), and the Ulug Beg, a medresa (Koranic school), around the city's sandy market square. With the exception of the Ulug Beg, the other buildings were later destroyed and replaced in the 17th century by two more medresas, the Sher Dor and Tilla Kari.

Prayer hall

Lavish gold-leaf gilding covers the Mecca-facing mihrab (pulpit) beneath the dome chamber.

Ulug Beg Medresa

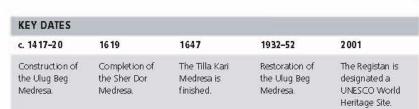
The façade consists of a central arched pishtaq (porch) flanked by two minarets. The elaborate tiling of stars is in keeping with Ulug Beg's passion for astronomy.

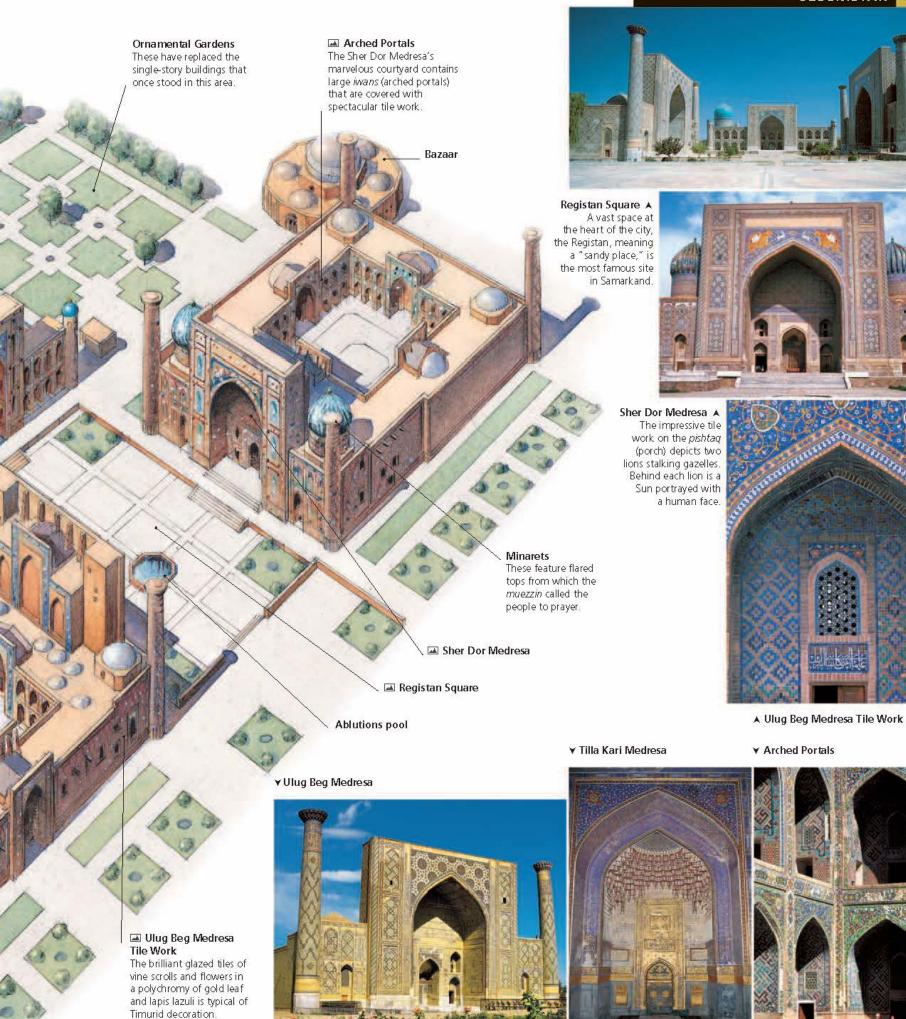
Courtvard

This has two arcaded tiers of cells for students and professors.

MATHEMATICS

Uluq Beq employed a mathematical consultant in the building of his medresa, Ghiyath ad-Din Jamshid al-Kashi, whose treatise on mathematics and astronomy has survived to the present day





Potala Palace, Lhasa

≺ Heavenly King Murals

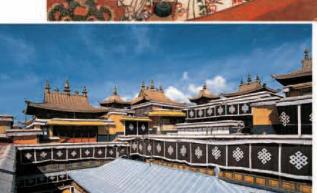
The east entrance has



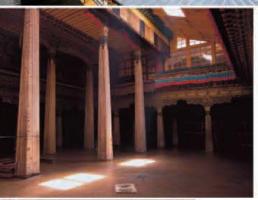
Perched on Lhasa's highest point, the Potala Palace is arguably the greatest monumental structure in Tibet. Thirteen stories high, with more than 1,000 rooms, it was once the residence of Tibet's chief monk and leader, the Dalai Lama, and therefore the center for both spiritual and temporal power. After the 14th Dalai Lama fled to India in 1959, the palace became a museum, serving as a reminder of Tibet's rich and devoutly religious Buddhist culture. The first palace on the site was built by Songtsen Gampo in 641, and this was incorporated into the larger building that stands today. There are two main sections—the White Palace, built by the 5th Dalai Lama in 1645, and the Red Palace, which was completed in 1693.

Chapel of the

13th Dalai Lama



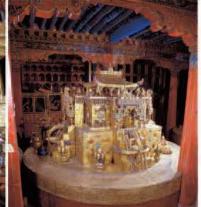
← Golden Roofs Seemingly floating above the huge structure, the gilded roofs (actually copper) cover the funerary chapels dedicated to previous Dalai Lamas.



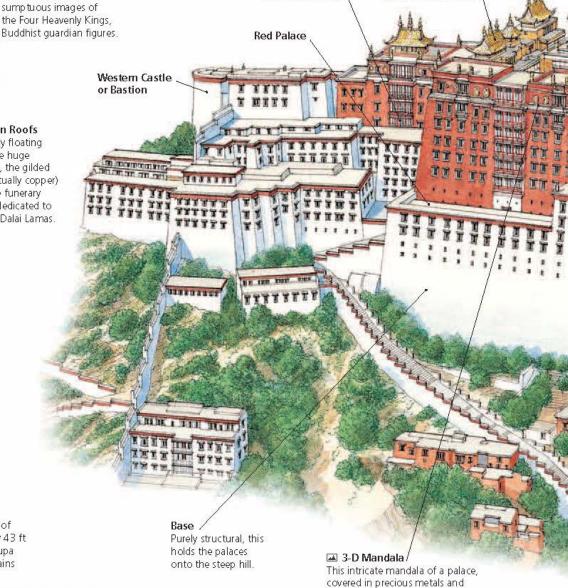
∢ Western Hall The largest hall inside the Potala, the Western Hall is located on the first floor of the Red Palace and contains the holy throne of the 6th Dalai Lama.



← Chapel of the 13th Dalai Lama This chapel holds the funerary stupa of the 13th Dalai Lama, rising up nearly 43 ft (13 m) in the gloomy interior. The stupa contains the lama's mummified remains and is coated in gold and jewels.



< 3D Mandala



KEY DATES AD 641

The first Potala The Tubo kingdom Palace is built by collapses and the Songsten Gampo, Potala Palace is founder of the almost completely Tubo kingdom. destroyed.

800s

The 5th Dalai Lama becomes spiritual and political leader of Tibet and reconstructs the palace.

1642

The 13th Dalai Lama renovates much of the White Palace and adds two stories to the Red Palace.

1922

jewels, embodies aspects of the

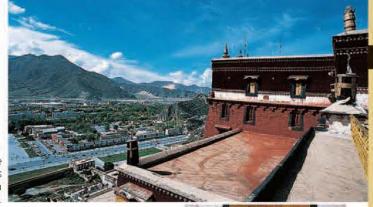
Buddhist path to enlightenment.

UNESCO adds the Potala Palace to its list of World Heritage Sites.

1994

Roof of the Chapel of

the 5th Dalai Lama



Songsten Gampo to broker peace between the

Tubo kingdom and the Tang. Princess Wencheng is revered in Tibet because she is said to have

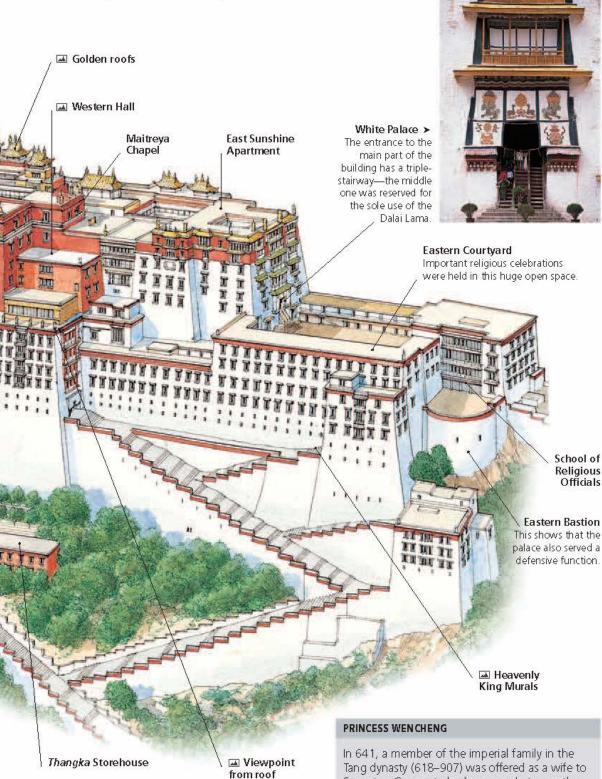
converted the king, and thus Tibet, to Buddhism.

She also instigated the building of many of

Tibet's finest temples.

View from the Roof >

On a clear day, the view of the valley and mountains is unequalled, although the modern parts of Lhasa are less impressive.



THE WHITE PALACE The White Palace is seven stories high and was used mainly for secular purposes. The top three levels were built around a large central skywell and contained accommodation and offices for senior monks and officials, as well as kitchens and storage areas. The Dalai Lama occupied two rooms on the top floor called the East and West Sunshine Apartments. Beneath the top levels lies the Great East Hall, a vast 7,500-sq ft (700-sq m) assembly place for important political ceremonies. The lower levels of the palace are used for storage and provide a frame that supports the main buildings. The first hallway, after the entrance, has several large murals depicting the building of the Potala Palace and the arrival of Princess Wencheng.

RUSSIAN FEDERATION

MONGOLIA

CHINA

THE RED PALACE

At the heart of the Potala complex, the Red Palace was intended for spiritual concerns. It is a complicated structure, with numerous halls of worship as well as the remains of eight Dalai Lamas inside magnificent stupas. Like the Chapel of the 13th Dalai Lama, the Chapel of the 5th Dalai Lama holds an enormous funerary stupa that rises up over 40 ft (12 m). It is made of sandalwood and reputed to be covered with nearly four tons of gold and almost 20,000 pearls and other gems. Other treasures on display include rare handwritten Buddhist sutras, and a great deal of statuary—one of the best statues is the one of Maitreya in his own chapel on the east side of the top floor.

SONGTSEN GAMPO

The warrior king and founder of the Tubo kingdom, Songtsen Gampo was born in AD 617 and built the original Potala Palace for his wife, Princess Wencheng. Most of it has long since burned down-only the Dharma Cave and the Saints' Chapel remain from the 7th century. They are both in the northern part of the Red Palace. The Dharma Cave is said to be the place where King Songtsen Gampo meditated. Inside, statues of the king, his chief ministers, and Princess Wencheng are venerated. In the Saints' Chapel on the floor above, several important Buddhist figures and the 7th, 8th, and 9th Dalai Lamas are enshrined and worshiped



THE EXPANDING WALL

Sections of the bastion called the Great Wall were first built during the Warring States period (475-221 BC) by individual states to thwart incursions by northern tribes and to defend against aggressive neighbors. Simple and unconnected earthen ramparts, they were not joined together until the Qin dynasty (221–207 BC) first unified China under Shi Huangdi, the First Emperor. The maintenance and expansion of the wall reflected each succeeding dynasty's feelings of insecurity. Enlarged under the expansionist Han dynasty (206 BC-AD 220), the wall was neglected by the cosmopolitan Tang dynasty (AD 618-907), only to be heavily fortified by the more inwardlooking Ming dynasty (1368-1644).

BUILDING ON SAND

The Qin wall was a simple tamped earth affair, but the later Han dynasty adopted a more advanced technology that enabled them to build walls even in the bleak expanses of the Gobi Desert. They would line wooden frames with a layer of willow reeds and twigs and then fill the frame with a mixture of mud, fine gravel, and water. This would then be pressed firmly into place. When the mixture dried, the frame could be removed, leaving behind a large slab of hard, bricklike mud that could be built upon again in the same manner. This is much like modern construction, when steel rods are use to reinforce concrete

GENERAL CAI KAI

One of the legends about the wall tells that, during the Ming dynasty, General Cai Kai was put in charge of building the section of wall at Huanghua, 40 miles (55 km) north of Beijing Word got back to the emperor that the general was taking too long over the task and wasting too much money. The unfortunate general was therefore summarily executed. Later, when the Mongols mounted a concerted attack, General Cai Kai's efforts paid off; Huanghua was the only fortress that successfully warded off the enemy. Realizing his mistake, the emperor exhumed General Cai Kai's body and had it reburied with full honors near the part of the wall that he built.

KEY DATES

5th century BC

Individual states

make defensive

tamped earth.

walls out of firmly

119 BC

After driving the

Mongols back into

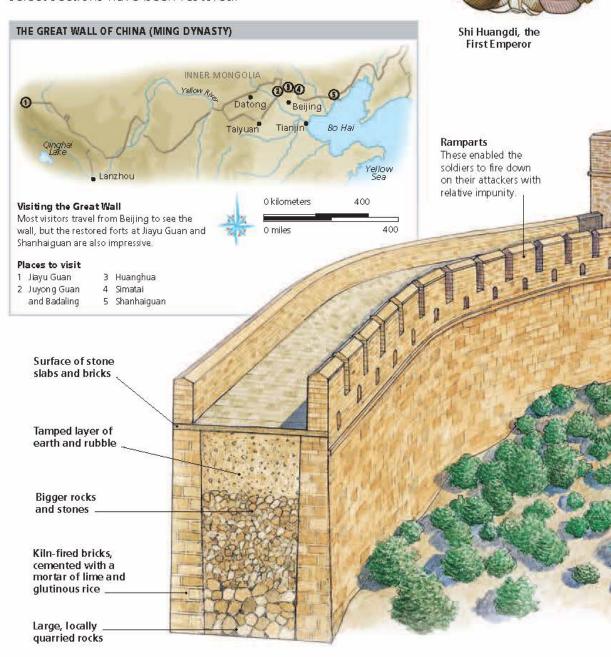
the Gobi Desert, the

Han dynasty extend

the Great Wall

The Great Wall of China

A symbol of China's historical detachment and sense of vulnerability, the Great Wall snakes through the Chinese landscape, over deserts, hills, and plains, for more than 2,500 miles (4,000 km). Yet, despite its seemingly impregnable battlements, the wall was ultimately an ineffective barricade. In the 13th century it was breached by the ferocious onslaught of the Mongols and then in the 17th century by the Manchu, helped by the decline of the Ming dynasty. Today, its dilapidated remains crumble across the rugged terrain of northern China and only select sections have been restored.



1215

The Mongols capture

Beijing after being

held off for four

years by the wall.

The Manchus

and create the

Qing dynasty.

overrun the wall

from the northeast

After centuries of

unites China un der

strife, Yang Jian

the Sui dynasty

and rebuilds the

Great Wall

1987

The Great Wall of

China is added to

UNESCO's World

Heritage List.

Watchtowers ¥

RECONSTRUCTION OF THE GREAT WALL

This shows a section of the wall as built by the most prolific wall builders of them all: the Ming dynasty. The section at Badaling, some 43 miles (70 km) north of Beijing, was built around 1505 and is similar to this. It was restored during the 1950s and 1980s.

Cannons Another Ming addition,

cannons were used to defend the wall and warn of attack.

Signal Beacons Warnings of attack were

signaled by the smoke given off by burning dried wolf dung.



Paved walkway



Towers

Carriageway

This averages 26 ft (8 m) in height and

These were spaced two

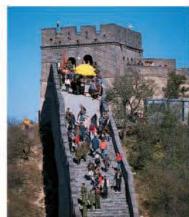
arrow shots apart to leave no part unprotected.

THE SYMBOLIC WALL

The Chinese word for city, "cheng," also means wall. For the Chinese, the wall, as well as serving a practical purpose, symbolized the boundary between home, safety, and civilization inside, and the chaos and barbarism outside.

Crumbling Ruin >

Away from the Beijing area, most of the wall is unrestored and has crumbled away, with only the core remaining





23 ft (7 m) in width.





Because the wall took advantage of the natural terrain for defensive purposes, following the highest points and clinging to ridges, it now offers some superb panoramic views.



Paved Walkway >

■ Watchtowers

A Ming addition, these

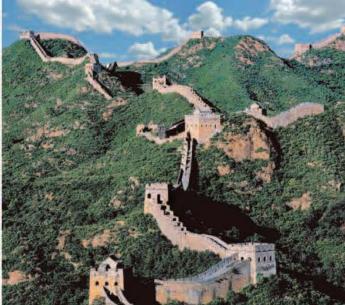
served as signal towers,

forts, living quarters, and

storerooms for provisions, gunpowder, and weapons.

> In addition to enabling communications via smoke, flares, drums, and bells, the wall acted as a road for the rapid transport of troops over very difficult terrain.











DESIGN PRINCIPLES

The harmonious principle of Yin and Yang is central to Chinese design. The Forbidden City is arranged symmetrically on a north-south axis, with hall entrances facing south to avoid the malign Yin effects—cold wind, evil spirits, and barbarian warriors—that come from the north. Odd numbers represent Yang, the masculine element associated with the emperor. Hence the frequent occurrence of three, five, seven, and the highest (and therefore best) single-digit odd number—nine—in architectural details. It is said that the palace has 9,999 rooms, and as nine times nine is especially fortunate, imperial doors usually have 81 golden studs.

SERVING THE EMPEROR

Because of the dual role of the Forbidden City—as the living quarters of the imperial family and the center of administration—eunuchs, the only male servants allowed in the palace, were in a unique position. Allowed access to the emperor's family, a few influential eunuchs wielded great power, siphoning off vast fortunes from the imperial coffers. The fate of the majority, though, was similar to that of a slave. Higher up the social scale, the emperor's concubines lived in a series of palaces beside the **Inner Court**. At night, the emperor would decide which concubine would sleep with him, and the number of times a concubine was chosen determined her social standing.

THE INNER COURT

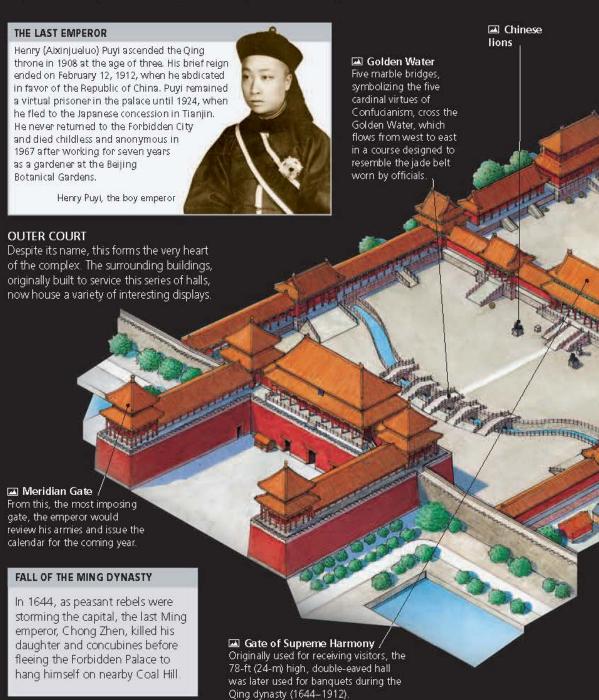
The structure of the Inner Court mirrors that of the Outer Court, but on a smaller scale. There are three main Inner Court palaces—the Palace of Heavenly Purity was originally used as the imperial sleeping quarters, and later for the reception of imperial officials. Beyond this palace lies the Hall of Union, which was used as a throne room by the empress, as well as a depository for the imperial seals used to sign official documents. Still farther on, the Palace of Earthly Tranquillity served as living quarters for the Ming empresses. Behind the Inner Court is the Imperial Garden. On either side of the state apartments were the residences of the imperial family and their attendants—reputed to number as many as 9,000 by the 1700s.

Forbidden City, Beijing

Forming the heart of Beijing, the Forbidden City is the world's largest palace complex, with 980 buildings across 1,614,600 sq ft (150,000 sq m). Completed in 1420, it was the Chinese imperial palace for almost 500 years, housing 24 emperors of the Ming and Qing dynasties (1368–1911) and the seat of government. As the symbolic center of the Chinese universe, the compound was the exclusive domain of the imperial court and dignitaries on royal business, but in 1949, it was opened to the public.



Glazed decorative wall relief



KEY DATES

1406 1664 1925 198

The Yongle emperor of the Ming dynasty commissions the Forbidden City.

The Manchus (later the Qing dynasty) invade, and burn most of the palace to the ground. The Forbidden City becomes the Imperial Palace Museum. The Forbidden City is listed by UNESCO as a World Heritage Site.

Door in the Forbidden City, with an auspicious number of studs >



Gate of Heavenly Purity

This led to the Inner Court, which was reserved for the imperial family.

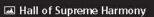




Gate of Supreme Harmony >



Hall of Middle Harmony This building served as a place of preparation for the emperor when on official business.



The largest hall in the palace, this was used for major occasions, such as the enthronement of an emperor. Inside the hall, an ornate throne sits beneath a fabulously colored ceiling.

Chinese Lions ➤

The lion symbolized the power of the emperor, and the splendor of the imperial palace. Males are portrayed with a ball under their paw, while females have a lion cub.

Roof Guardians ➤

These figures, which are associated with water, were supposed to protect the imperial buildings from fire.

¥ Golden Water





¥ Meridian Gate

■ Marble Carriageway

■ Roof Guardians

The central ramp, carved with dragons chasing pearls among clouds, was reserved for the exclusive use of the emperor.

¥ Marble Carriageway









LAYOUT OF THE TEMPLE OF HEAVEN

The temple is replete with cosmological significance. All the major structures lie on the favored north-south axis. The ancient Chinese saying "sky round, Earth square" is represented by the interplay of squares and circles. Heaven is suggested in the round, conical roofing and the blue tiles of the Hall of Prayer for Good Harvests and the Imperial Vault of Heaven. The Round Altar symbolizes heaven, while Earth is there in its square enclosure. Also important is numerology, with odd numbers being the most fortunate, hence the triple eaves of the Hall of Prayer for Good Harvests and the Round Altar's three tiers.

CEREMONIES AND RITES

The emperor would perform the ceremonies at the Temple of Heaven following natural disasters, which required the appearement of heaven, or to ensure rain and good harvests. After fasting for three days, he would be conveyed in a spectacular procession from the Forbidden City to spend the night before the sacrifice in the Palace of Abstinence. The next day, before dawn, he would be ceremonially robed. Then, proceeding north to south, with sacred music and dance, he would ascend the Round Altar to burn a freshly killed ox and bundles of silk before an array of wooden spirit tablets (shenpai), including those of his ancestors, who were thus also "participating."

THE LAST CEREMONY

Observed by China's emperors since the Zhou dynasty (1100-771 BC), the winter solstice rites at the Temple of Heaven were last performed by the first president of the Republic of China, General Yuan Shikai (1859-1916). Yuan had helped modernize the Chinese army and, as the head of such a force, could easily ask for positions of influence in return for his and the army's support. Once he was made president, he aimed to install himself as emperor and reestablish an imperial dynasty. He performed the ceremony at the Temple of Heaven in 1914, clearly asserting his imperial ambitions. However, despite donning the appropriate robes, he failed to achieve the traditional majesty of the occasion by arriving in an armored car.

Temple of Heaven, Beijing

Built during the Ming dynasty, Tiantan, commonly called the Temple of Heaven, is one of the largest temple complexes in China and a model of Chinese architectural balance and symbolism. It was here that the emperor, after a ceremonial procession from the Forbidden City, would make sacrifices and pray to heaven at the winter solstice. As the Son of Heaven, the emperor could intercede with the gods on behalf of his people and ensure a good harvest. Off-limits to the common people during the Ming and Qing dynasties, the Temple of Heaven is situated in a large park that now attracts early-morning practitioners of Tai Chi.



Gate to the Round Altar

TEMPLE OF HEAVEN COMPLEX

The main parts of the complex are all connected by the Red Step Bridge (an elevated ceremonial path) to form the focal point of the park. The doorways at each triple gate are for the emperor (east), the gods (center), and the officials (west). The circular Echo Wall is famous for its supposed ability to carry a whisper from one end of the wall to the other.

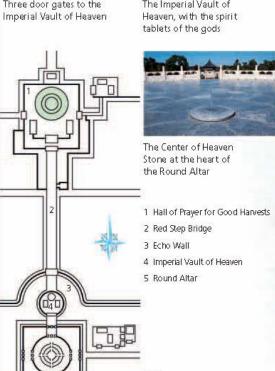


Temple of Heaven Complex



The Imperial Vault of tablets of the gods

Area illustrated right



HALL OF PRAYER FOR GOOD **HARVESTS**

The Qinian Dian, or Hall of Prayer for Good Harvests, is the most famous structure at the complex and is often thought to be the "Temple of Heaven." In fact, Tiantan refers not to one building, but to the whole complex.

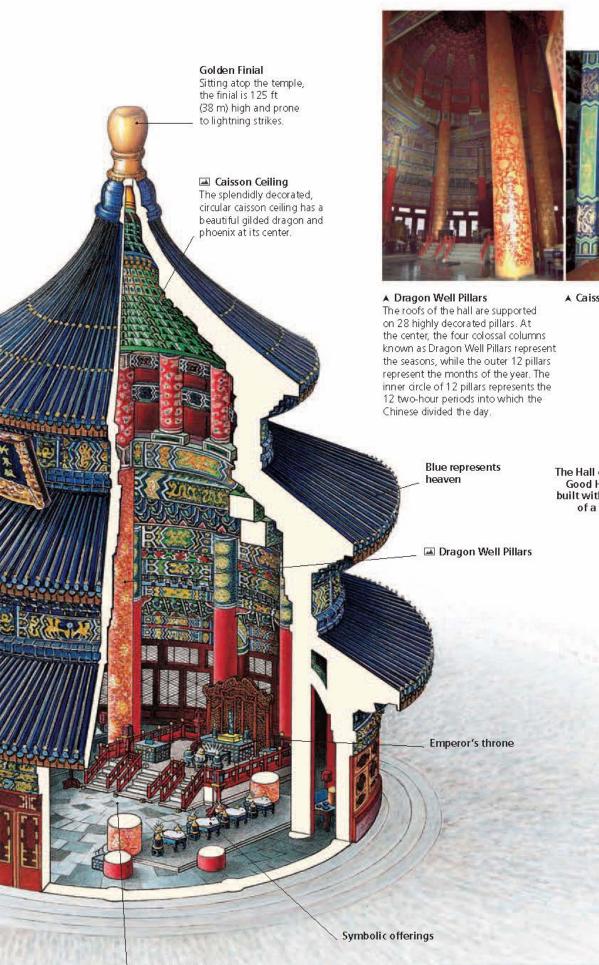


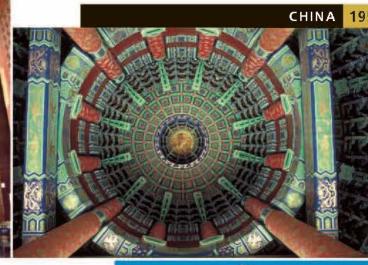
The circular roof symbolizes the sky

Red is the emperor's color

Dragon and Phoenix Motifs

Used inside and out, these represent the emperor and empress.





▲ Caisson Ceiling



The Hall of Prayer for Good Harvests was built without the use of a single nail >



▲ Marble Platform Three tiers of marble form a circle 300 ft (90 m) in diameter and 20 ft (6 m) high. The balustrades on the upper tier are carved with dragons to signify the imperial nature of the structure.

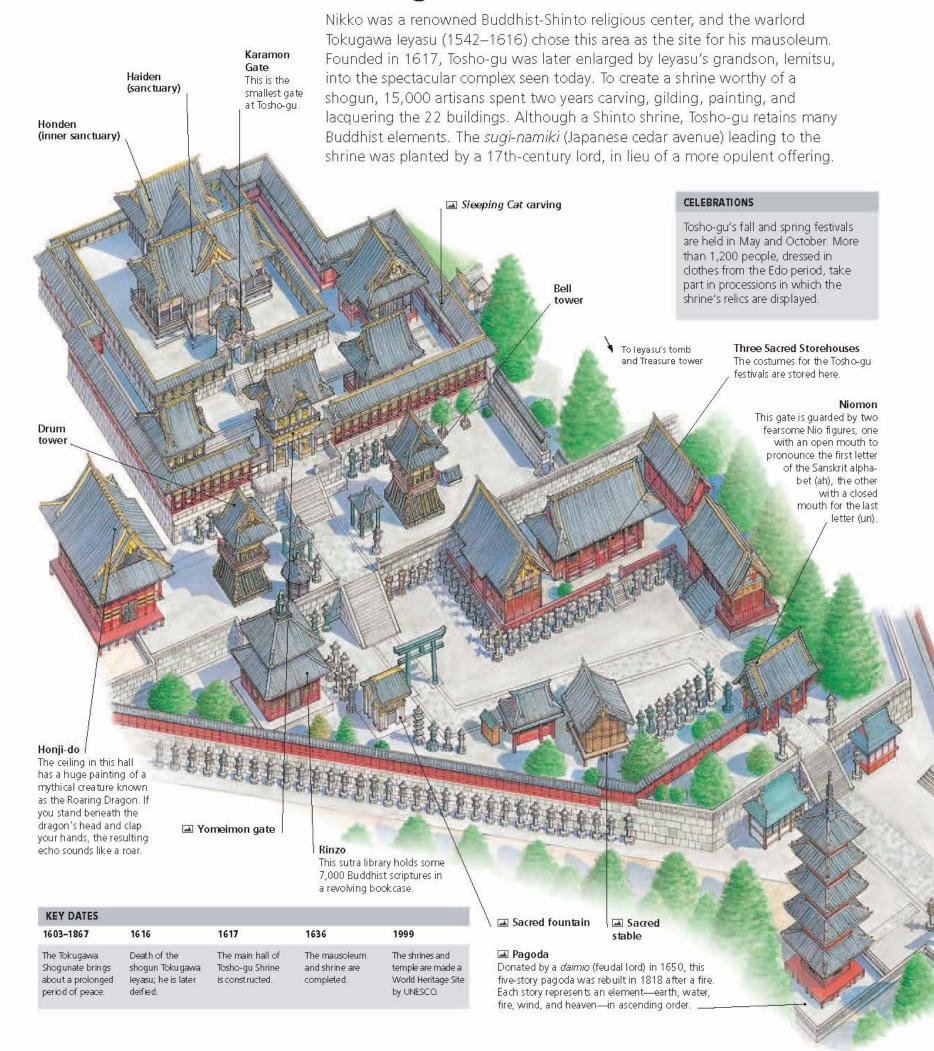
EMPEROR YONGLE

This Ming emperor ruled from 1403 to 1424 and was responsible not only for moving the capital from Nanjing to Beijing, but also for starting work on the Forbidden City, the Temple of Heaven, and the Ming Tombs.

Central "Dragon and Phoenix Stone"

KEY DATES	Y DATES			
1420	15 30	1889	1918	1998
Qinian Dian is built. It is originally called the "Temple of Earth and Heaven."	The Round Altar is constructed by Emperor Shizong.	Qinian Dian burns down after a lightning strike.	The Temple of Heaven is opened to the public.	UNESCO inscribes the Temple of Heaven onto the World Heritage List.

Tosho-gu Shrine, Nikko





A Sacred Stable A carving of the Three Wise Monkeys decorates this wooden building. A horse, given by the New Zealand government, is kept

here for a few hours

each day



Pagoda >

A Sacred Fountain This granite basin (1618) for ritual purification is covered with an ornate Chinese-style roof.







▲ Yomeimon Gate

Lavishly decorated with beasts and flowers, this gate has one of its 12 columns carved upside down, a deliberate imperfection to keep from angering jealous spirits. Statues of imperial ministers occupy the niches.



Granite torii (gate), a typical Shinto feature

Entrance

TOKUGAWA IEYASU

Over an entrance in the east corridor, this tiny,

exquisite carving of a sleeping cat is attributed

to Hidari Jingoro (Hindari the Left-Handed).

★ Sleeping Cat Carving

leyasu was a wily strategist and master politician who founded the Tokugawa dynasty of shoguns that ruled Japan for over 260 years. Born the son of a minor lord, leyasu spent his life attaining power, Tomb of finally becoming shogun in 1603, Tokugawa when he was 60. He built his leyasu capital at the swampy village of Edo (now Tokyo), and his rule saw the start of the flowering of Edo culture. He ensured that, after his death, he would be enshrined as a god and gongen (incarnation of the Buddha).



THE SHINTO RELIGION

Shinto, the "way of the gods," is Japan's oldest religion. Its core concept is that deities, kami, preside over all things in nature, be they living, dead, or inanimate. The Sun goddess Amaterasu is considered to be Shinto's most important kami. From ancient times, the emperor's rule was sanctioned by the authority of the greatest of the gods, said to be his ancestors. Religious rituals in Shintoism are centered around the offering of gifts and food, and the saying of prayers. Although Shinto was the state religion from 1868 to 1946, few Japanese today are purely Shintoists, but most will observe Shinto rituals alongside Buddhist practises.

FEATURES OF TOSHO-GU SHRINE

The shrine's opulence is not at all in keeping with the sense of duty and simplicity that is usually central to Shintoism. This incongruity highlights the transformation that Shintoism underwent following the introduction of Buddhism to Japan in the 6th century. Many of the shrine's buildings have Buddhist architectural elements. The five-story temple (pagoda) and the gate guarded by the Nio figures (Niomon) are just two examples of how Buddhism and Shintoism coexist at Tosho-gu. The shrine is famous for the ornate carvings that decorate entire buildings, both inside and out. The most exquisite are found at the Twilight Gate (Yomeimon gate), whose name implies that it can take all day to view the carvings.

THREE WISE MONKEYS

Introduced to Japan by a Buddhist monk from China in the 8th century, the proverb of the Three Wise Monkeys represents the three truths of Tendai Buddhism. The names of the monkeys are Mizaru, meaning "see no evil," Kikazaru, meaning "hear no evil," and Iwazaru, meaning "speak no evil." In Japan, monkeys are traditionally believed to keep horses healthy, and at Tosho-gu, they are the guardians of the sacred horse, an animal long dedicated to the Shinto gods (sacred stable). Their famous gestures of covering their eyes, ears, and mouth are a dramatic representation of the commands of the blue-faced deity Vadjra: if we do not see, hear, or speak evil, we will be spared from all evil.



EMPEROR SHOMYO

The imperial court at Nara embraced Buddhism in the 8th century, during the reign of Emperor Shomyo (r. 724-49). Shomyo built temples in every province and used this vast network to consolidate control of his empire. However, he is best known for commissioning the Todai-ji Temple and its Great Buddha Vairocana statue in 743. The statue was a phenomenal endeavor that took seven years to complete, consumed most of Japan's bronze production for several years, and left the country almost bankrupt. When the temple finally opened in 752, Shomyo personally painted the statue's eyes and declared himself the Buddha's servant.

TODAI-JI TEMPLE'S CONSTRUCTION

Japan has extensive forest resources, and wood was a favored building material for centuries, particularly for temples, mainly because of its ability to endure weathering in winter. This has, however, also meant that such structures are highly susceptible to devastating fires. Todai-ji Temple's Great Buddha Hall is constructed in the traditional post-and-lintel style. The base of the hall has posts anchored along a rectangular perimeter. This rigid geometric shape marks the boundary between the material and divine worlds. There are 62 pillars supporting the grand, sloping roof. A unique roof construction (Wooden Hall) is effective in resisting the many major and minor earthquakes that hit Japan.

BUDDHISM IN JAPAN

Buddhism was founded in India and arrived in Japan via China and Korea in the 6th century. Prince Shotoku (573-621) promoted Buddhism in its early days. Initially, despite incorporating parts of its belief system, Buddhism had an uneasy relationship with Japan's oldest religion, Shinto. Buddhism lost official support after Shinto was declared Japan's national religion in 1868, but it flowered again after World War II. Today, the beliefs and morality of Buddhism permeate modern Japanese life, especially the Zen Buddhist emphasis on simplicity and mental control. Buddhist temples in Japan include a main hall (hondo), with a stark interior, a cemetery, a small Shinto shrine, and, often, a tiered pagoda housing a relic of the Buddha.

Todai-ji Temple, Nara

There are many reasons to visit the impressive Todai-ji Temple in Nara, but its sheer size must be the main attraction. The temple is only two-thirds of its original size, due to fires and alterations over the centuries, yet it is still the largest wooden building in the world. An enormous and costly project, Todaiji was ordered by Emperor Shomyo in the mid-8th century to highlight the position of Nara as a powerful Buddhist site and Japan's capital. Inside is a magnificent 53-ft (16-m) high seated bronze statue of the Buddha—the largest in Japan.



Stone lantern at

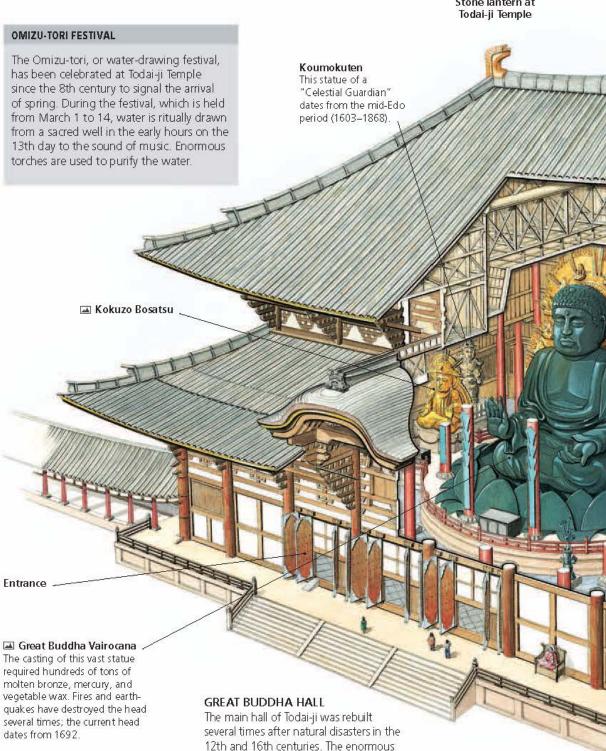


figure inside is a jaw-dropping sight.

to dust the statue.

Occasionally, it is possible to see monks

climbing onto the Buddha's raised hand



▲ The 62-ft (19-m) high Nandaimon (Great Southern Gate) of Todai-ji

Ornamental roof



A Sacred Site
Above Nara, the ancient city that
was once Japan's capital, sits Todai-ji
Temple. The curved roof is almost
hidden by the surrounding trees.



Roofline >

▼ Wooden Hall

The unusual bracketing and beam-frame construction of this vast structure, built in 1688–1709, were possibly the work of craftsmen from southern China.



Temple of Kofuku-ji, one of the many temples built by Emperor Shomyo ➤



▼ Kokuzo Bosatsu This statue of Kokuzo—the deity of wisdom and memorywas completed in 1709.



	▲ Great E	eat Buddha Vairocana		
KEY DATES				
75 2	1180, 1567	1998		
After enduring fires and earthquakes, Todai-ji Temple is finally completed.	The Great Buddha Vairocana's head melts in raging fires.	The Todai-ji complex at Nara is declared a UNESCO World Heritage Site		

decoration Wooden Hall Roofline The striking roofline, with its golden "horns" and curved lintel, was an 18th-century embellishment.

Interior of Daibutsuden (Buddha Hall)

Pillar with Hole
Behind the Buddha is a large wooden pillar with a small hole bored into it. Tradition holds that those who can squeeze through the opening will attain enlightenment.

Tamonten

This figure of a "Celestial Guardian" dates from the same period as Koumokuten in the rear of the hall.

Niyorin Kannon Bosatsu

Like the Kokuzo bosatsu to the left of the Great Buddha, this "fulfiller of all wishes" is an "Enlightened Being." The statue dates from 1709.

Covered walkway in compound







THE HOLIEST SHRINE

The Sikhs' holiest shrine, the Golden Temple complex is actually a city within a city, with a maze of lanes protected by 18 fortified gates. The main entrance is through the northern gateway, the Darshani Darwaza, which also houses the Central Sikh Museum and its collections of paintings, manuscripts, and weapons. From here, steps lead down to the Parikrama (marble pathway) encircling the Amrit Sarovar ("Pool of Nectar"), after which Amritsar is named, and Hari Mandir ("Temple of God"), the goldendomed main shrine. Several holy sites line the Parikrama, including the Dukh Bhanjani Ber, a tree shrine said to have healing powers and the Athsath Tirath, representing 68 pilgrim shrines. The Parikrama continues to the Akal Takht. The complex includes the Guru ka Langar—a free kitchen symbolizing the caste-free, egalitarian society the Sikh gurus sought to create.

MAHARAJA RANJIT SINGH

One of North India's most remarkable rulers, Maharaja Ranjit Singh (r. 1790-1839) established Punjab's first Sikh kingdom by persuading rival chieftains to unite. A military genius, his strong army kept both the British forces and Afghan invaders at bay by making Punjab a prosperous center of trade and industry. A devout Sikh, the one-eyed Ranjit Singh was an enlightened ruler who liked to say, "God intended me to look at all religions with one eye."

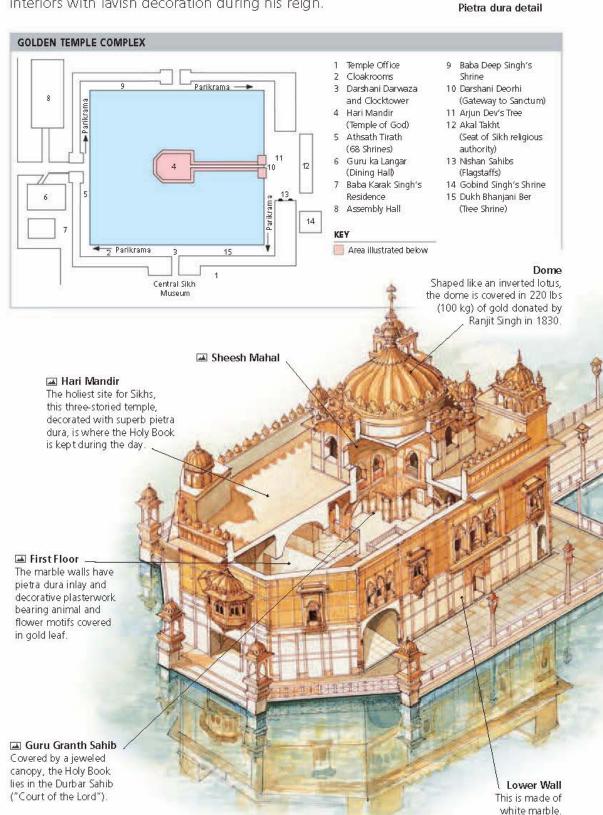
SIKHISM

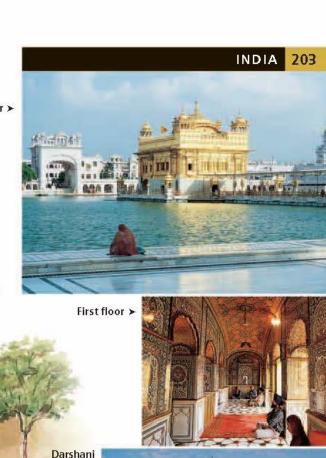
With their characteristic turbans and full beards, the Sikhs are easy to identify. Sikhism is a reformist faith, founded in the 15th century by Guru Nanak. It believes in a formless God. It is also called the Gurmat, or the "Guru's Doctrine," and Sikh temples are known as gurdwaras, literally, "doors to the guru." Nanak, the first of a series of ten gurus, chose his most devout disciple as his successor. The tenth and last guru, Guru Gobind Singh (1666-1708), reorganized the community as a military order, the Khalsa, to combat religious persecution by the Mughals. He gave the Sikhs their distinctive identity and the Khalsa's five symbols—kesh (long hair), kachha (underwear), kirpan (small sword), kangha (comb), and kara (bracelet)—that all Sikhs are obligated to wear.

The Golden Temple, Amritsar

The spiritual center of the Sikh religion, the Golden Temple was built between 1589 and 1601, and is a superb synthesis of Islamic and Hindu styles of architecture. In keeping with the syncretic tradition of those times, its foundation stone was laid by a Muslim saint, Mian Mir. The temple was virtually destroyed in 1761 by an Afghan invader, Ahmed Shah Abdali, but was rebuilt some years later. Maharaja Ranjit Singh, ruler of Punjab, covered the dome in gold and embellished its interiors with lavish decoration during his reign.







John

Hari Mandir ➤

Akal Takht

at the Golden Temple, which is illuminated by thousands of lamps.

The festival of Guru Parab celebrates

Guru Nanak's birthday on a full Moon night in late October-early November (date varies). It is particularly spectacular

GURU PARAB

Darshani Deorhi

This gateway provides the first glimpse of the temple's inner sanctum. It has two splendid silver doors and sacred verses carved on its walls.

Darshani







The pool where Sikhs are baptized was built in 1577 by Ram Das, the 4th guru.

Causeway

The 200-ft (60-m) long marble causeway is flanked by nine gilded lamps on each side, and leads to the temple across the Amrit Sarovar.

Akal Takht≯

The seat of the supreme governing body of the Sikhs, this houses the gurus' swords and flagstaffs, as well as the Holy Book at night.





peacock feathers.





KEY DATES 1589-1601

The Golden Temple is constructed, under the care of the Sikhs' 4th guru, Arjan Dev.

1760s Muslim Afghans

The Khalsa (Sikh attack the Golden Commonwealth) Temple and raze it rebuild the Golden to the ground on Temple. several occasions.

1776

1830

Maharaja Ranjit Singh adorns the temple's dome with gold.

1984

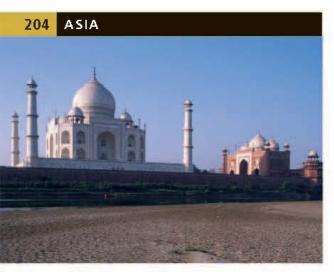
The temple is damaged during Operation Blue Star, undertaken by the army to flush out extremists.

The Punjab government funds an extensive project to beautify the area around the

Golden Temple.

2003





▲ View of the Taj Mahal

The Taj Mahal complex is bounded on three sides by red sandstone walls. At the far ends of the complex, there are two grand buildings, the western one is the Taj Mahal mosque (above right).

Taj Mahal, Agra

One of the world's most famous buildings, the Taj Mahal was built by the Mughal emperor Shah Jahan in memory of his favorite wife, Mumtaz Mahal, who died in 1631. Its perfect proportions and exquisite craftsmanship have been described as "a vision, a dream, a poem, a wonder." This sublime garden-tomb, an image of the Islamic garden of paradise, cost nearly 41 million rupees and 1,100 lb (500 kg) of gold. About 20,000 workers labored for 12 years to complete it in 1643.

Dome

Main entrance

Four Minarets

Each 131 ft (40 m) high and crowned by an open octagonal pavilion, or *chhatri*, the minarets frame the tomb, highlighting the perfect symmetry of the complex.

■ **Dome** — The 144-ft (44-m)

high double dome is capped with a finial.

Marble Screen

The filigree screen, daintily carved from a single block of marble, was meant to veil the area around the royal tombs.

Pietra Dura

Inspired by the paradise garden, intricately carved floral designs, inlaid with precious stones, embellish the austere white marble surface to give it the look of a jeweled casket.

■ Tomb Chamber

Mumtaz Mahal's cenotaph, raised on a platform, is placed next to Shah Jahan's. The actual graves, in a dark crypt below, are closed to the public.

Yamuna River

Calligraphic Panels

The size of the Koranic verses increases as the arch gets higher, creating the subtle optical illusion of a uniformly flowing script.

KEY DATES

1632 1643

Work on the Taj begins, following the death of Mumtaz Mahal. The thousands of artists and craftsmen complete the work on the Tai.

Shah Jahan dies and is laid to rest beside his gueen:

1666

The Taj Mahal is declared a UNESCO World Heritage Site.

1983

The Taj Mahal Conservation Collaborative starts to restore the grounds.

2001





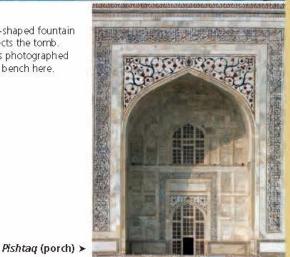
A Tomb Chamber

A Lotus Pool

spouts, the pool reflects the tomb. Almost every visitor is photographed



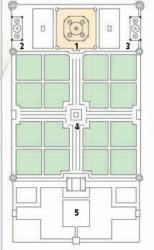
Named after its lotus-shaped fountain sitting on the marble bench here.



Charbagh

The quadrilateral garden was irrigated with water from the Yamuna River.

PLAN OF THE TAJ MAHAL



- Main tomb
- Masjid (mosque)
- Mehmankhana (questhouse)
- Charbadh
- (quadrified garden)
- Gateway

Area illustrated left

Charbagh





Pishtaq (porch)

Recessed arches provide depth, while their inlaid panels reflect the changing light to give the tomb a mystical aura.

Dome Interior >

The dome is actually double-skinned; the interior dome, barely a third of the height of the outer skin, is visible from inside the main chamber, and is separate from the dome visible from outside.







MUMTAZ MAHAL

Arjumand Banu (later Mumtaz Mahal) was the emperor's favorite wife. She accompanied him on all his campaigns and died in 1631, while giving birth to their 14th child. They were married for 19 years.







MUGHAL STYLE

Mughal buildings, whether built of marble or red sandstone, assert their exalted, imperial status. The Mughal emperors were great patrons of the arts, literature, and architecture and their rule established a rich, pluralistic culture, blending the best of Islamic and Hindu traditions. Their greatest contribution to architecture was the garden tomb, raised on a high plinth in the centre of a charbagh garden. Decorative elements, such as perforated jalis (screens) used extensively for privacy and ventilation refined inlay work and cusped arches gave Mughal buildings an ethereal grace that offset their massive size. Other features include chhatris (domed rooftop pavilions) that were adapted from Rajput architecture, and minarets that gave symmetry to the buildings.

THE PARADISE GARDEN

The hallmark of Mughal landscape design, the paradise garden was introduced by Babur (1483-1530), the first Mughal emperor, who yearned for the beauty of Ferghana, his Central Asian homeland. Based on Islamic geometric and metaphysical concepts of design, the charbagh was an enclosed garden divided into four quarters by raised walkways, water channels, and sunken groves. Water, the source of all life, was the central element, and the intersecting channels met at a focal point that contained a pavilion for the emperor, who was seen as a representative of God on Earth.

THE TAJ MAHAL'S DECORATION

It is widely believed that the Taj Mahal was designed to be an earthly replica of one of the houses of paradise. Its impeccable marble facing, embellished by a remarkable use of surface design, is a showcase for the refined aesthetic that reached its zenith during Shah Jahan's reign (1627-1658). The Taj Mahal manifests the richness and wealth of Mughal art, as seen in architecture, garden design, painting, jewelry, calligraphy, and textiles. Decorative elements include ornamental jalis, carved panels of flowering plants and calligraphic panels, as well as floral motifs in pietra dura, a Florentine mosaic work technique said to have been imported by Emperor Jahangir.



THE JAMI MASJID AND SALIM CHISHTI

Towering over Fatehpur Sikri is the grand open mosque Jami Masjid. Its vast congregational area has monumental gateways to the east and south. The 177-ft (54-m) Buland Darwaza, a triumphal arch, was erected by Akbar to mark his 1573 conquest of Gujarat. The spiritual focus of the complex is the tomb of Sufi mystic Salim Chishti. Ever since Akbar's childlessness was ended after the saint's prediction in 1568, his tomb has attracted thousands, particularly childless women in search of a miracle. Visitors make a wish, tie a thread on the screen around the tomb, and return home confident that their wish will come true.

AKBAR THE GREAT

The greatest emperor of the Muslim Mughal dynasty, Akbar (r. 1556-1605) was a brilliant administrator and an enlightened ruler. Just 14 years old when he ascended the throne, his first task was to consolidate and expand his fledgling empire. His most significant move was the political and matrimonial alliances he formed with the Hindu Rajputs. However, it was his policy of religious tolerance that truly set him apart. Akbar was fascinated by the study of comparative religion and built a special "House of Worship" in Fatehpur Sikri, where he often met leaders of other faiths.

LORD CURZON

One of colonial India's most flamboyant viceroys, Lord Curzon (1859-1925) believed British rule was necessary to civilize "backward" India. He introduced sweeping changes in the education system, but he is remembered most for his role as a conservator of Indian monuments. Lord Curzon was responsible for the restoration of a vast number of Hindu, Islamic, and Mughal buildings, among them the gateway to Emperor Akbar's tomb at Sikandra, Agra Fort, the buildings at Fatehpur Sikri, the Jain temples at Mount Abu, and the Taj Mahal. In 1905, due to a difference of opinion with the British military commander-in-chief, Lord Kitchener, Curzon returned to England. By the time he left, he had achieved sufficient legislation to protect India's historic buildings, and set up an organization to conserve them.

Construction of

Sikri begins.

Emperor Akbar's new

capital at Fatehpur

The 15-story

triumphal arch

built by Akbar.

Buland Darwaza is

Fatehpur Sikri is

abandoned by

Emperor Akbar.

Fatehpur Sikri

becomes a UNESCO

World Heritage Site.

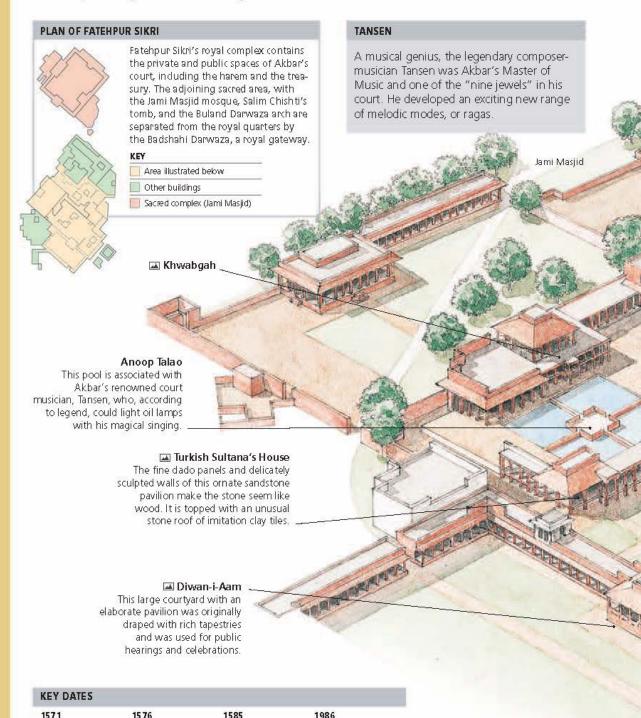
Fatehpur Sikri

Built by Emperor Akbar between 1571 and 1585 in honor of Salim Chishti, a famous Sufi saint of the Chishti order, Fatehpur Sikri was the capital of the Mughal empire for 14 years. One of the best examples of a Mughal walled city, with defined areas and imposing gateways, its architecture is a blend of Hindu and Islamic styles (Mughal Style, see p.204), and reflects Akbar's secular vision as well as his type of governance. The city was abandoned, some say for lack of water, in 1585, and many of its treasures were plundered. It owes its present state of preservation to the efforts of Lord Curzon, Viceroy of India and a great conservationist.



Fretwork jali

Entrance





▲ Pillar in the Diwan-i-Khas

The central axis of Akbar's court, supported by carved brackets, was inspired by Gujarati buildings.



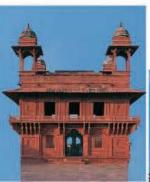


A Panch Mahal

🔺 Panch Mahal

This sandstone, five-story open pavilion, overlooking the Pachisi Court, is where Akbar's queens and their attendants savored the cool evening breezes. Its decorative screens were probably stolen after the city was abandoned.

Birbal's House



Sometimes identified as the treasury, this building has mythical guardian beasts carved on its stone struts. Its name means "blind man's buff."



Ankh Michauli >

Diwan-i-Aam ➤



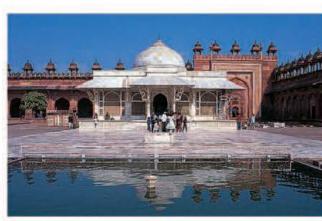
Turkish Sultana's House >





Khwabgah A

Akbar's private sleeping quarters, with an ingenious ventilation shaft near his bed, lie within this lavishly decorated "Chamber of Dreams."





■ Diwan-i-Khas

Pachisi Court

Abdar Khana

This is named after a ludolike game played here by the ladies of the court.

The exquisite, white marble tomb of Salim Chishti >

ASIA ASIA

The Great Stupa, Sanchi

West Gateway

escape from soldiers.

This animated scene from the

Jataka Tales shows monkeys

scrambling across a bridge to

Dominating the Hill of Sanchi, India's best-preserved and most extensive Buddhist site, is the Great Stupa. Its hemispherical shape is believed to symbolize the upturned alms bowl of a Buddhist monk, or an umbrella of protection for followers of the Buddhist *dharma* (doctrine). The stupa's main glory lies in its four stone *toranas* (gateways), added in the 1st century BC. Their superb sculptures replicate the techniques of wood and ivory carving, and cover a rich variety of Buddhist themes.



Buddha at Sanchi

Chattra (Parasol)

The Great Stupa is crowned by

a squared-off platform (harmika),

(chattra) atop a mast (yasti).

which encloses a triple "parasol"

■ Buddha

Statues of the Buddha

5th century AD, face

each of the gateways.

meditating, added in the

▲ The Great Stupa and its West Gateway

Enclosing a smaller brick stupa built by Emperor Ashoka in the 3rd century BC, the Great Stupa is capped by a three-tiered stone umbrella symbolizing the layers of heaven.

Vedika (Railings)

These are an impressive recreation in stone of a typical wooden railing design. They were the inspiration for the stone railings around Sansad Bhavan, or the Parliament House, in New Delhi.

Circumambulatory Paths

The paths have balustrades carved with medallions of flowers, birds, and animals, and the names of the donors who funded them.

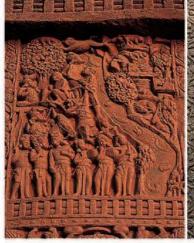
Architrave

South Gateway

Four Gateways

These show scenes from the Buddha's life, and episodes from the Jataka Tales. The Buddha is not depicted in human form, but only through symbols, such as a Bodhi Tree, footprints, or a wheel.

KEY DATES 2nd century BC 1912-19 1300s 1818 1989 The Great Stupa is With the decline The Great Stupa. The Director The Great Stupa built at Sanchi by of Buddhism in General of is declared a is "rediscovered" India, the Great Archeology in UNESCO World Emperor Ashoka by General Taylor Stupa falls into of the Bengal India excavates Heritage Site. and then restores disrepair. Cavalry. the site.





▲ West Gateway

▲ East Gateway

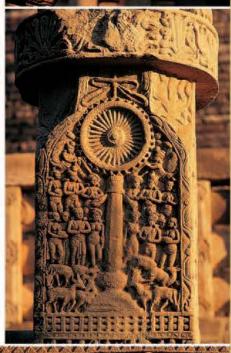
North Gateway

Here, Sujata, the village chief's daughter, offers the Buddha (represented by the Bodhi Tree) kheer (rice pudding), as the demon Mara sends the temptress to seduce him.

Salabhanjika >

South Gateway >

The Wheel of Law, seen here being worshiped by devotees, symbolizes the Buddha.



THE JATAKA TALES

The Buddha's past lives are retold in this large collection of fables, in which an animal or bird often takes the part of the Buddha. The fables had great religious, moral, social, and cultural significance.





Detail of Architrave >

The intricate carving on the architraves is the work of wood and ivory craftsmen hired to carve the stone.

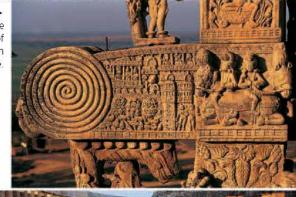
East Gateway

A scene here shows a royal retinue at the palace of Kapilavastu, the Buddha's home before he renounced his princely life.



Supporting the lowest architrave of the East Gateway is a sensuous, volup tuous tree nymph, gracefully positioned under a mango tree.









BUDDHISM'S ORIGINS AND PHILOSOPHY

The Buddha was born in 566 BC as Siddhartha Gautama, prince of Kapilavastu. Renouncing his princely life, he left his palace at the age of 30 to search for answers to the meaning of human existence and suffering. He spent six years living with hermits, undertaking severe penances and fasts, but found these gave him no answers. Enlightenment finally came at Bodh Gaya, where, after meditating for 49 days under the Bodhi Tree, he discovered that the cause of suffering is desire; and that desire can be conquered by following the Eightfold Path of Righteousness: Right Thought, Understanding, Speech, Action, Livelihood, Effort, Concentration and Contemplation. The essence of the Buddha's teachings is non-violence and peace.

BUDDHIST STYLE

India's earliest Buddhist monuments were stupas, large reliquaries in which the ashes of the Buddha and other great teachers were interred. Solid throughout, the stupa itself is undecorated and designed to stimulate prayer and represent the path to divine understanding As Indian traditions spread throughout Southeast Asia, the Buddhist stupa reached new heights of complex Buddhist symbolism. Borobodur Temple in Java, with its design and sculpture of the highest order, is probably the greatest monument of this architectural style.

EMPEROR ASHOKA

One of India's greatest rulers, Ashoka (r. 269-232 BC) was the grandson of Chandragupta Maurya, who founded the country's first empire. The carnage and misery brought about by Ashoka's bloody conquest of Kalinga (now Orissa) in 260 BC filled him with remorse. He gave up digvijaya (military conquest) for dharmavijaya (spiritual conquest), and became a great patron of Buddhism, building many stupas, including the original brick stupa at Sanchi. Ashoka was a humane ruler whose edicts on rocks and pillars all over his vast empire record his ethical code of righteousness and nonviolence (ahimsa). He asked his officials to be impartial, just, and compassionate, and his subjects to respect others' religions, give to charity, and avoid the killing of animals.



THE EMERALD BUDDHA

In 1434, lightning struck Wat Phra Kaeo temple in Chiang Rai and cracked it open, revealing a simple stucco image that encased a jadeite image: the Emerald Buddha. Chiang Mai's king sent an army of elephants to bring the image to him, but as the animal bearing it refused to take the road to Chiang Mai, it was enshrined at Lampang. After several moves, the Buddha was taken to Laos in 1552, where it remained until King Rama I brought it back to Thailand in 1778. It was kept in Wat Arun before being moved to its current resting place in 1785.

THE RAMAKIEN

The Ramakien is an allegory of the triumph of good over evil. Rama, heir to the throne of Ayodhya, is sent into a 14-year exile with his wife Sita and brother Lakshman. Tosakan, the demon-king of Longka, abducts Sita from the forest. Hanuman, the monkey god, helps rescue Sita and defeat Tosakan, and Rama returns triumphantly to Ayodhya. This epic tale was probably established after the Thais took Angkor in the 15th century. All the Chakri kings adopted Rama as one of their names, and the 14th-century kingdom of Ayutthaya was named after the fictional Ayodhya. The legend has also been a great inspiration for Thai painting, classical drama, and puppetry.

EXPLORING WAT PHRA KAEO

When Rama I established his new capital, he envisioned a temple that would surpass its Sukhothai and Ayutthaya predecessors. The result was the splendid Wat Phra Kaeo. The bot houses the surprisingly small image of the Emerald Buddha, seated in a glass case high above a gilded altar. Opposite, the Upper terrace has several structures, the most striking of which is the Phra Si Rattana Chedi, built by King Mongkut (Rama IV) in 1855 to house sacred Buddha relics. The adjacent Phra Mondop was initially used as a library. Its exterior has Javanese Buddha images on the four outer corners. To its north is a model of Cambodia's Angkor Wat. On the Northern terrace, the Ho Phra Nak enshrines the ashes of minor royals, while the Wihan Yot contains the Nak Buddha rescued from Ayutthaya

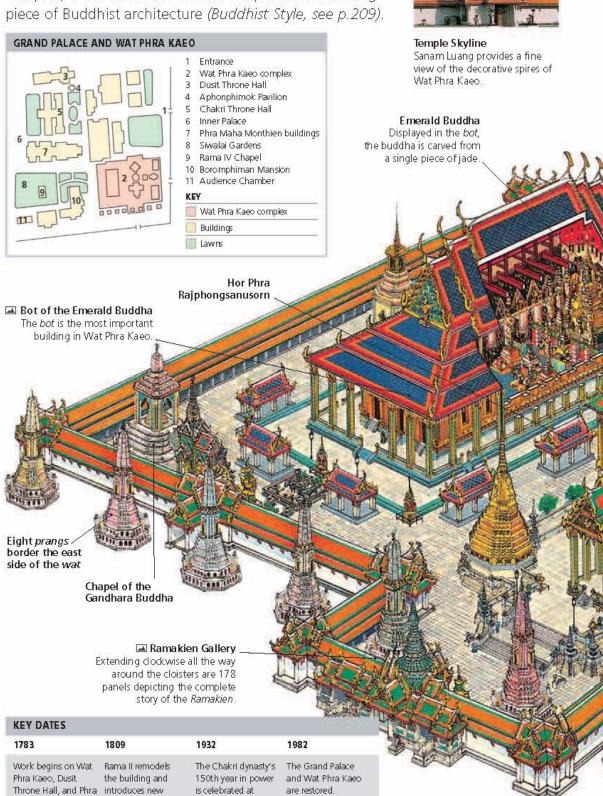
Maha Monthien.

Chinese details.

the Grand Palace

Grand Palace and Wat Phra Kaeo, Bangkok

This remarkable site was built in the late 18th century to mark the founding of the new capital, to provide a resting place for the sacred Emerald Buddha, and a residence for the king. Surrounded by 1.2 miles (1.9 km) of walls, the complex was once a self-sufficient city within a city. The Thai royal family now lives in Dusit, but Wat Phra Kaeo (shown here), a subcomplex within the Grand Palace complex, is still Thailand's holiest temple and a stunning





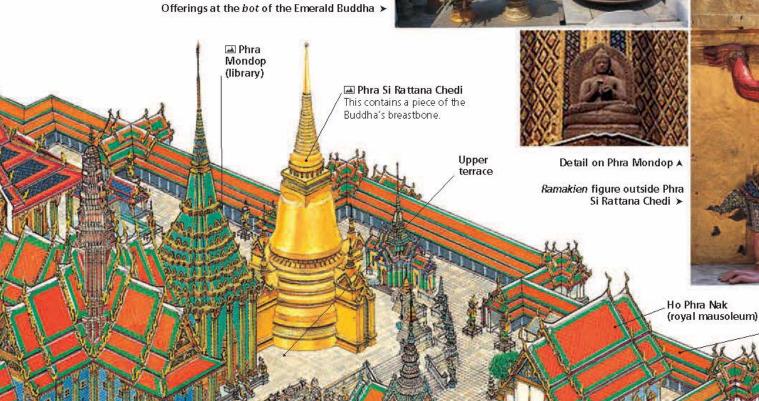
Detail of a panel in the Ramakien Gallery A

▼ Decorative Gilt Figures

Encircling the exterior of the bot are 112 garudas (mythical beasts that are halfman, half-bird). They are holding nagas (serpents) and are typical of Wat Phra Kaeo's dazzling decorative details.







Hor Phra

Apsonsi > A mythical creature (half-woman, half-lion), Apsonsi is one of the beautiful gilded figures

on the upper terrace

of Wat Phra Kaeo.

Northern

Wihan Yot

Model of

Cambodia's Angkor Wat

Prasat Phra Thep (Royal Pantheon)Built by King Rama IV to house the

Emerald Buddha, the building was later considered too small.

HIS MAJESTY THE KING'S BIRTHDAY

On December 5, Thais venerate their king. Buildings all over Thailand are decorated, including the Grand Palace and Wat Phra Kaeo. In the evening, there are fireworks.

. Khon Kæn THAILAND ANDAMAN

THE CHAKRI DYNASTY

In 1782, Chao Phraya Chakri (later King Rama I) established the Chakri dynasty in Krung Thep (Bangkok). The reigns of Rama I, II and III were a time of stability. Rama II was a literary man, while Rama III was a staunch traditionalist. King Mongkut (Rama IV) modernized Siam (Thailand), and opened it up to foreign trade and influences. His son, King Chulalongkorn, or Rama V (r. 1868–1910), was perhaps the greatest Chakri king. He furthered modernization by introducing financial reforms and abolishing slavery. He was idealized by his subjects, and his funeral was a grand state affair. Even today, he is commemorated on Chulalongkorn Day (October 23).

KHMER ARCHITECTURE

Thailand's stone temple complexes, or prasats, were built by the Khmers, who ruled much of Southeast Asia in the 9th-13th centuries. Prasats were built to symbolize kingship and the universe. Most have staircases or bridges lined with nagas (a seven-headed serpent thought to be the keeper of life's force), leading to a central monument. This is usually decorated with carved stone reliefs and topped by a prang (tower). Prangs symbolize Mount Meru, the abode of the gods in Hindu-Buddhist cosmology. Lintels and pediments over the entrances depict Hindu and Buddhist deities.

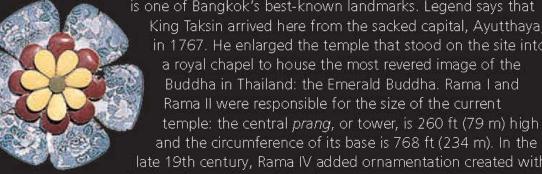
ARUNA, INDRA, AND VAYU

Worshiped in India from the early Vedic age (1500 BC), the Hindu deities Aruna, Indra, and Vayu personify nature and the elements. Aruna, the god of dawn, is the charioteer of Surya, the Sun god. Red-skinned, he stands on the chariot in front of the Sun, sheltering the world from its fury with his body. Indra, the god of the sky and the heavens, rides a golden chariot drawn by horses and is armed with a vajra, or thunderbolt. Indra sends the rain and rules the weather, and is often depicted sitting on Airavatta, the four-trunked white elephant who represents a rain cloud. Vayu (Phra Pai in Thai) is the god of the winds and messenger of the gods. He is also the regent of the northwest quarter of the heavens and is depicted with white skin, seated on an antelope

Wat Arun, Bangkok

Named after Aruna, the Indian god of dawn, Wat Arun temple is one of Bangkok's best-known landmarks. Legend says that King Taksin arrived here from the sacked capital, Ayutthaya, in 1767. He enlarged the temple that stood on the site into a royal chapel to house the most revered image of the Buddha in Thailand: the Emerald Buddha. Rama I and Rama II were responsible for the size of the current

late 19th century, Rama IV added ornamentation created with broken pieces of porcelain. The monument's style is derived mainly from Khmer architecture.



Ceramic flower on the central prang



≺ River View of Wat Arun This popular view of Wat Arun, seen from the Chao Phraya River, appears on the 10-baht coin and in the Tourism Authority of Thailand (TAT) logo



The Bot

≺ Stairs on the

Central Prang

In the temple complex are the usual buildings found in a

in the bot (ordination hall)

The steep steps represent

the difficulties of reaching

higher levels of existence

wat. This image of the Buddha

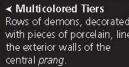
contains the ashes of Rama II

Minor prangs at each corner of

the wat

★ Ceramic Details





◆ Decoration of the Four Minor Prangs

¥ Gold leaf honoring the Buddha











ROYAL BARGE PROCESSION

Every five or ten years, the king of Thailand takes robes and gifts to the monks at Wat Arun, traveling inside a splendid royal barge on the Chao Phraya River.

CENTRAL MONUMENT OF WAT ARUN

The monument's design symbolizes Hindu-Buddhist cosmology. The central *prang* is the mythical Mount Meru, and its ornamental tiers are worlds within worlds. The layout of four minor prangs around a central one is a symbolic mandala shape.

One of the eight entrances

Stairs on the

central prang

Top terrace

Indra's weapon, the vajra, or thunderbolt, at the prang's crest

SYMBOLIC LEVELS OF THE CENTRAL PRANG

Devaphum

The top represents the peak of Mount Meru, rising above four subsidiary peaks. It denotes six heavens within seven realms of happiness.

Tavatimsa

The central section, where all desires are fulfilled, is guarded at the four cardinal points by the Hindu god Indra.

Traiphum

The base represents 31 realms of existence across the three worlds (Desire, Form, and Formless) of the Buddhist universe.

KEY DATES

1700s Early 1800s

King Taksin remodels Wat Arun temple to house the Emerald Buddha.

Rama II restores the temple and increases the height of the

central prang.

Wat Arun undergoes minor repairs after lightning splits a section of the spire

1971

Small Cove ➤

On the second level of the central *prang* are small coves, inside which are kinnari, mythical creatures that are half-bird, half-woman.



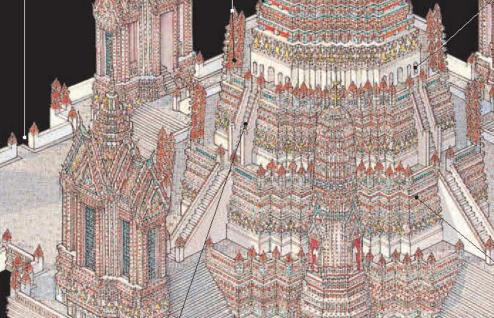
Decoration of the **Four Minor Prangs** Inside the niches of each minor *prang* are statues of Phra Pai, the god of wind, on horseback.

Mondops

Between each of the minor prangs is a square-based mondop (altar). Each holds a Buddha statue

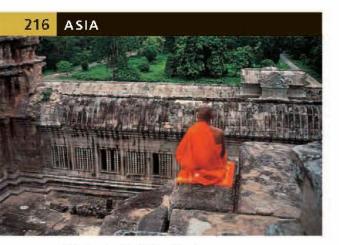
Ceramic Details

Around the base of the *prangs* are rows of yaksha, or demons, that lend support to the structure. They are decorated with colorful pieces of porcelain donated by the local people.









▲ Meditating Buddhist Monk

Angkor was originally a Hindu site, but it was later converted to Buddhist use. Today, Buddhist monks live in a pagoda by the side of the temple.

¥ The Battle of Kuruksetra bas-relief in the West Gallery







Angkor Wat

One of the largest religious structures in the world, the 12th-century temple of Angkor Wat is covered with exquisite carvings that form the longest bas-relief in existence. It was part of a vast complex of religious and administrative buildings constructed between the 9th and the 15th centuries by the Khmer empire, which ruled most of Southeast Asia at that time. The temple is an earthly representation of the Hindu cosmos. Its five towers, shaped like lotus buds, form a pyramidal structure symbolizing the mythical Mount Meru, home of the gods. The outer walls represent the edge of the world, and the moats, the cosmic ocean. Dedicated to Vishnu, the temple was built for the god-king Suryavarman II (r. 1113-50), probably as a funerary monument. It faces west, toward the setting Sun, a symbol of death.

■ Gallery of the Bas-Reliefs



← Gallery of the Bas-Reliefs The outer side of the gallery comprises 60 columns, while the inner wall is carved with beautiful bas-reliefs of mythological and historical events.

of the Buddha.



< Causeway

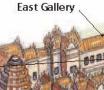
Angkor Wat's majestic facade can be seen from the causeway at its west entrance. Balustrades terminating in the form of the *naga*, the seven-headed serpent, border the causeway on either side and extend all the way around the temple.

View of Angkor Wat > The elegance and grace of the temples, and their reflection in the moats that surround them, make Angkor Wat an awe-inspiring sight.





Central Sanctuary





KEY DATES

1113-50

Construction of Angkor Wat during the rule of the Khmer empire

The Siamese (Thais) sack Angkor Wat and the site is abandoned.

1432

Angkor Wat is "rediscovered" by French naturalist Henri Mouhot.

The French École

Orient starts to

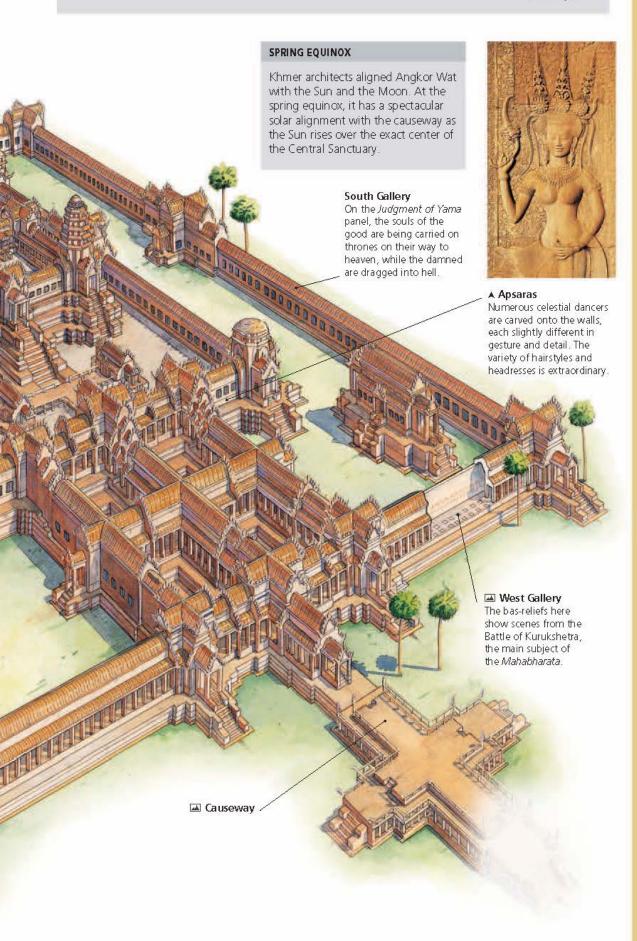
clear the site.

Française d'Extrême

Angkor Wat is declared a UNESCO World Heritage Site.

1993

An international conservation project starts the preservation of Angkor Wat's temples.





GALLERY OF THE BAS-RELIEFS

Angkor Wat is covered with 12,917 sq ft (1,200 sq m) of intricately carved scenes that depict Khmer myths, Angkorian warfare, and stories from the great Hindu mythological epics, the Ramayana and the Mahabharata. Divided into eight sections, some of the most celebrated panels include the Battle of Kuruksetra in the West Gallery, the Churning of the Ocean of Milk in the East Gallery, and the Judgment of Jama in the South Gallery. Angkor Wat also has 1,850 carved apsaras, or celestial dancers. These sensuous goddesses, who are naked except for ornate jewelry and elaborate headdresses, wear enigmatic smiles, known as the "Khmer Smile," and are the glory of Angkor.

THE FALL OF ANGKOR

The last great king of Angkor was Jayavarman VII (1181–1220). He founded the city of Angkor Thom, near Angkor Wat, where he built the Bayon Temple, among many others. This ambitious temple-building program probably depleted the kingdom's coffers, as did wars with neighboring Siam (modern-day Thailand) and Champa (Vietnam). Little is known about the kings that succeeded him, but in 1432, the Siamese sacked Angkor and the last king, Ponhea Yat, was forced to move south toward Phnom Penh, the modern-day capital of Cambodia. Although Angkor Wat remained a holy place, the Khmer empire subsequently went into decline and most of the temples were deserted, gradually becoming covered in jungle.

REDISCOVERY OF ANGKOR

Although the ruins of Angkor Wat had been chronicled by a number of foreigners, their "rediscovery" was attributed to Henri Mouhot, a Frenchman traveling under the auspices of Britain's Royal Geographical Society in 1860. A naturalist and botanist, Mouhot spent three weeks among the ruins, drawing and surveying the temples. He wrote a detailed and lyrical account of his work in his diaries, which were published after his death from malaria in 1861 His descriptions inspired numerous travelers, including the Scottish photographer John Thomson, who took the first black-and-white photographs of Angkor in 1866



THE BAS-RELIEFS

There are 1,460 superbly carved bas-reliefs. extending for 3 miles (5 km), around the five lower levels of Borobodur. As visitors walk clockwise, keeping the monument to the right, the reliefs on the lowest terrace show daily life, earthly pleasures, the punishments of hell, and the laws of cause and effect, or karma. This vivid evocation of daily life in ancient Javanese society was later covered with stone to support the temple's weight. The second level depicts the Buddha and his life. These reliefs feature graceful figures with serene expressions wearing jewels and headdresses. Images on the other levels follow texts such as the Jataka Tales and Lalitavistara, and the Buddha's earlier incarnations and search for enlightenment

THE SAILENDRA DYNASTY

Between AD 730 and 930, the Sailendra dynasty ruled most of Java in Indonesia. Their name is Sanskrit for "Lords of the Mountain" and they were heavily influenced by the Indian Gupta culture through the maritime trade routes of the region. Java was one of Asia's leading civilizations during this period, enriched by trade and the sale of rice, and the Sailendras created the greatest temples and monuments in Southeast Asia at the time. Borobodur Temple, arguably their finest accomplishment, took 75 years to complete.

THE MEANING OF BOROBODUR

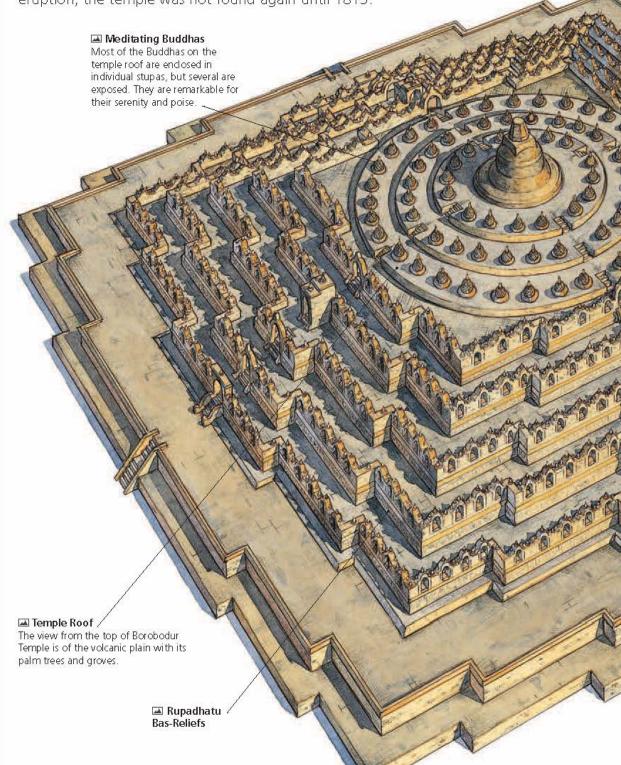
Initially built as a Hindu temple, Borobodur is a re-creation of Mount Meru, the mythical mountain abode of Hindu gods. Symbolically, it is a mandala, an aid to meditation, and a meeting place of heaven and Earth. It represents the transition from the lowest manifestations of reality through to the highest spiritual awareness at the summit. The base represents the lowest sphere of consciousness (Kamadhatu bas-reliefs). The next level (Rupadhatu bas-reliefs) is the intermediate period of consciousness. The upper levels, with 72 small, perforated stupas, each containing a seated Meditating Buddha, represent the sphere of formlessness. At the top, the empty central stupa suggests nirvana, and symbolizes enlightenment, the ultimate spiritual realm.

Borobodur Temple, Java

The world's largest Buddhist stupa (Buddhist Style, see p.209), Borobodur Temple is made from 1.6 million blocks of volcanic andesite and is constructed over nine levels. Five square terraces are surmounted by three circular ones and another stupa at the top. The structure's powerful image is enhanced further by five levels of sublime carvings depicting the lives of the Buddha, expounding the meaning of his doctrine. These images form the most comprehensive ensemble of Buddhist reliefs ever carved. As pilgrims circumambulate, praying before each image, they ascend from the terrestrial to the divine world. Abandoned in the 10th century, and later buried under ash from a volcanic eruption, the temple was not found again until 1815.



▲ Temple Roof





A Carved Gateway

▲ One of the Meditating Buddhas



∢ Kamadhatu basreliefs of musicians

¥ Seated Buddha Sitting within an arched niche in the temple, this Buddha is thought to represent a hermit in a

mountain cave.



▲ Rupadhatu Bas-Reliefs These carvings depict the life of Siddhartha Gautama, the Buddha.



The name of this colossal structure probably came from the Sanskrit Vihara Buddha Uhr, meaning High Buddhist Monastery. It is the earthly manifestion of the Buddhist vision of the universe.



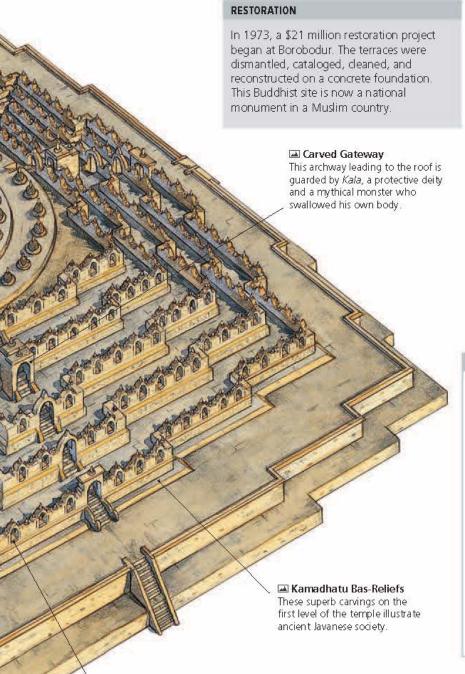


CONSTRUCTION

Borobodur is square in plan and 113 ft (34.5 m) high. Originally, five square terraces of diminishing size were built, leading to a sixth from which three circular terraces rose, with a stupa at the summit. The original intention seems to have been to construct a pyramid, but the weight was so great that a stone buttress had to be built around the base to stop it from collapsing.



A A graceful, bejewelled king and queen holding court at Borobodur



Sea ted Buddha

KEY DATES 770-850

Construction of

dynasty

Borobodur Temple

under the Sailendra

The balance of power shifts to east Java and the temple

is abandoned.

c. 928

c. 900 Heavy volcanic

activity submerges the temple in layers of ash. Sir Stamford Raffles.

Borobodur is rediscovered by British colonial agent

1815

The temple un dergoes its first renovation, by the Dutch.

1907-11

Borobodur is declared a UNESCO World Heritage Site.

1991



TRADITIONAL BELIEFS

Animism, ancestor worship, and a sense of the supernatural permeate Balinese life. The term sekala niskala (visible-invisible) sums up the idea that the physical world interacts with a spirit world. Loosely described as "gods" and "demons," the spirits are believed to dwell in natural objects such as stones or trees. Shrines are built for them and they are honored with offerings of flowers and other materials. Ancestors are deified in complex rituals and venerated at temples. Guardian spirits, such as the Barong, are invoked in sacred performances to restore a village's cosmic balance.

THE GAMELAN ORCHESTRA

In Bali, and neighboring Lombok, traditional music is performed by a gamelan orchestra, a percussion ensemble consisting largely of bronze metallophones (instruments with tuned metal keys), led by drums (kendang). Bronze gongs of various sizes form the heart of the orchestra. Struck with mallets, they produce resonant sounds that punctuate the keyed instruments' melodies. There are also a few wind and stringed instruments, including bamboo flutes (suling). Most villages own a set of gamelan instruments for ritual occasions; some are sacred and played only at religious ceremonies. Temples have a pavilion called a bale gong to house the instruments.

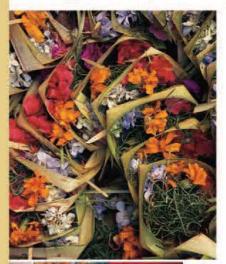
BALINESE TEMPLE ARCHITECTURE

A Balinese pura (public temple) is a sacred enclosure where Hindu deities are periodically invited to descend into pratima (effigies) kept in shrines. Their arrangement follows a consistent pattern, with structures oriented along a mountain-sea axis. The outer courtyard and central courtyard have secondary shrines and pavilions, including the kulkul (watchtower), which houses a drum that is sounded when the deities have descended. The jeroan (inner courtyard) contains shrines to the temple's core deities, and often to deities of the lakes, sea and mountains, too. The padmasana, or lotus throne shrine, in the temple's holiest corner, has an empty seat on top signifying the Supreme God. The meru shrine symbolizes the mythical Hindu peak, Mount Meru

Pura Ulun Danu Batur, Bali

One of Bali's most popular and spiritually significant religious complexes, the nine-temple Pura Ulun Danu Batur has a vital association with Danu (Lake) Batur, a volcanic crater lake, but it is uncertain when it was built. It is Bali's guardian temple of water supplies, since it controls the irrigation system of much of the island. From a distance, the temple's silhouette can be seen on the rim of the vast Batur caldera.

¥ Canang, or daily flower offerings, made to the spirits



■ Inner Courtyard The inner courtyard is the most sacred. Three gateways lead from one courtyard to the next.

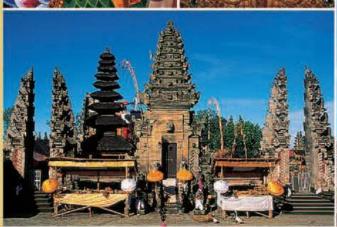


▼ Temple Flags



✓ Gold-painted Doors The great timber doors of the main temple gateway are reserved for the use of priests on important religious occasions.

▼ Side Gate



A Inner Courtyard



1927



■ Gold-painted doors

KEY DATES

1917

Pura Ulun Danu Batur is miraculously unharmed during a volcanic eruption.

The temple is almost completely buried in another volcanic eruption

1926

The temple is rebuilt at its current location.

TEMPLE FESTIVALS

In Bali, Odalan (temple festivals) are anniversary ceremonies where deities are honored with offerings, prayers, and entertainment, creating a carnival atmosphere that generally lasts for three days.

Side Gate This tall, slender gate,

built in a combination of brickwork and paras stone decoration, leads to another temple.

Outer courtyard

Bale Gong

This pavilion houses the temple's set of gamelan instruments, including a great gong believed to have a magical history.

Entrance

← Central Courtyard The great quadrangle, shown here occupied by a festive structure of bamboo and straw, is the occasional setting for ritual dances.

Devotees present offerings at this temple, which is dedicated to Ida Betari Dewi Ulun Danu, the goddess of Lake Batur. The respect accorded to the goddess is reinforced by events in the temple's history. At its original site, closer to the lake, the temple was saved from destruction in a volcanic eruption in 1917 when the lava flow stopped just short of its walls. After another eruption in 1926, the villagers relocated the

temple to its present site.



Offerings of fruits and flowers



Central courtyard

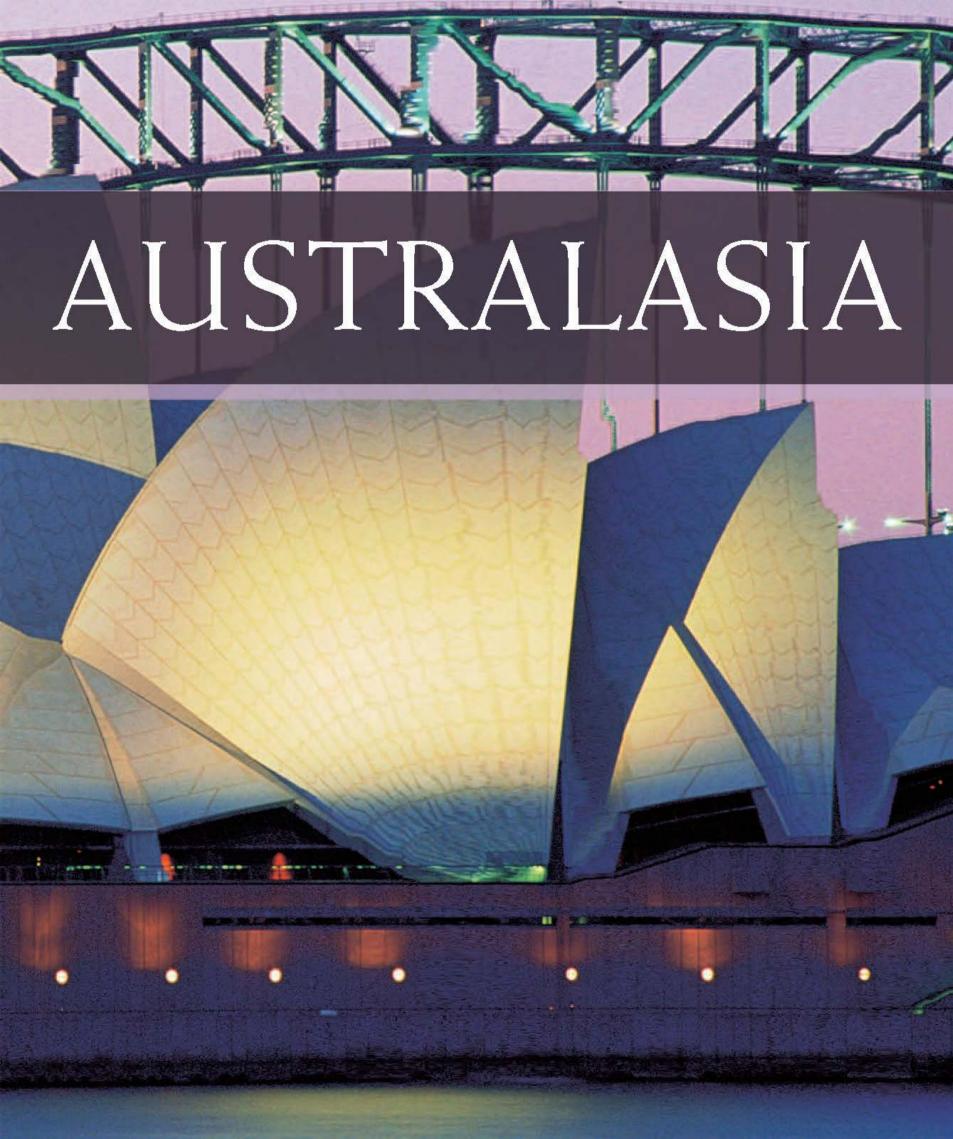
■ Temple Flags

Deities and mythical beasts are often depicted in rich

colors on the temple's

flags and sculptures.





224 AUSTRALASIA



DESIGN AND CONSTRUCTION

In 1957, the Danish architect Jørn Utzon won the international competition to design Sydney Opera House. He envisaged a living sculpture that could be viewed from any angle, on land, air, or sea. It was boldly conceived, posing architectural and engineering problems that Utzon's first sketches did not solve. When construction began in 1959, the intricate design proved impossible to execute and had to be greatly modified. The project remained so controversial that Utzon resigned in 1966 and an Australian design team completed the interior. However, he was reappointed as a consultant, to develop a set of guidelines for any future alterations to the building.

ROLE AND SIGNIFICANCE

Sydney Opera House is instantly recognizable around the world. It is managed by the Sydney Opera House Trust, which is responsible for maintaining its high status as Australia's main cultural landmark and performing arts center. The building is one of the world's most renowned architectural marvels and has won numerous awards, including the prestigious Top Ten Construction Achievements of the 20th Century award in 1999. An estimated 4.4 million people visit the Opera House every year, 75 percent of whom go just to look around the magnificent structure.

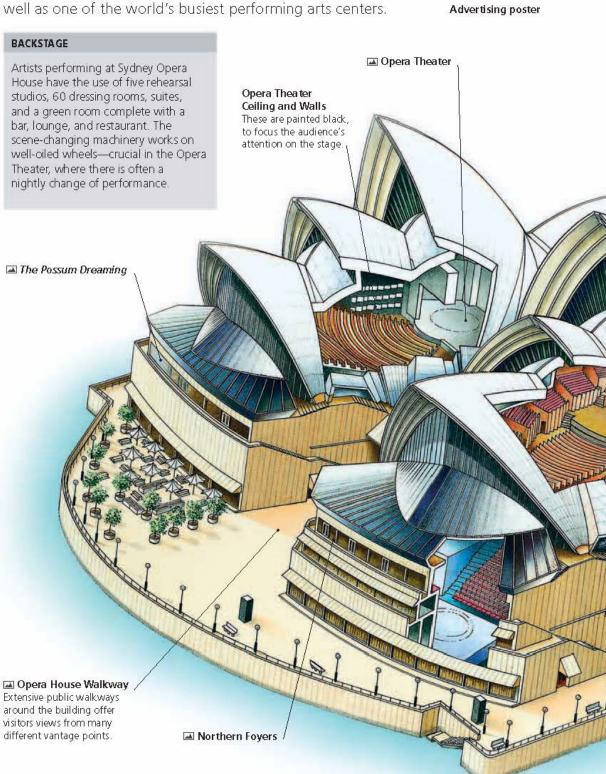
THE THEATER AND HALLS

Underneath the ten spectacular, sail-like roofs of varying planes and textures lies a maze of more than 1,000 rooms of all shapes and sizes showcasing different events. The Concert Hall is decked out in native white birch and brush box (hardwood timber). The Drama Theater stage is 49 ft (15 m) square, and can be clearly viewed from every seat in the auditorium. Refrigerated aluminum panels in the ceiling control the temperature. Fine Australian art hangs in the Playhouse foyer, notably Sidney Nolan's Little Shark (1973) and a fresco by Salvatore Zofrea (1992-3). The Opera Theater is the second largest venue and hosts lavish opera and dance performances. The theater's proscenium opening is 39 ft (12 m) wide, and the stage extends back 69 ft (21 m).

Sydney Opera House

No other building on Earth looks like Sydney Opera House. Popularly known as the "Opera House" long before the building had been completed, it is, in fact, a complex of theaters, studios, and music venues linked beneath its famous roofs, or "shells." The building's birth was long and complicated. Many of the construction problems had not been faced before, resulting in an architectural adventure that lasted 14 years. An appeal fund was set up, eventually raising AU\$900,000, while the Opera House Lottery raised the balance of the AU\$102 million final cost. Today, the Opera House is Sydney's most popular tourist attraction, as well as one of the world's busiest performing arts centers.

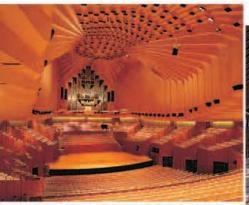






▲ Opera Theater

Mainly used for opera and ballet, this 1,547-seat theater is big enough to stage grand operas such as Verdi's Aïda.



A Concert Hall

This is the largest interior venue in the Opera House, with seating for 2,679 people. It is used for a wide variety of performances, including symphony, choral, jazz, folk, and pop concerts, as well as variety shows.



A Northern Foyers

The Reception Hall and the large Northern Foyers of the Opera Theater and Concert Hall have spectacular views over Sydney Harbour.

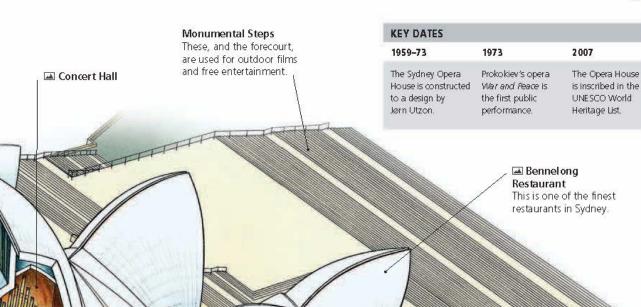


Roofs >



¥ Detail of The Possum Dreaming (1988) The mural in the Opera Theater foyer is by Michael Tjakamarra Nelson, an Aboriginal artist

from the central Australian desert.



Opera House Walkway >









■ Roofs

Although apocryphal, the story that Jørn Utzon's arched roof design came to him while he was peeling an orange is enchanting. The highest point is 221 ft (67 m) above sea level.

Playhouse

Seating almost 400 people, this venue is ideal for intimate productions, yet it is also able to present plays with larger casts.

Detail of Utzon's Tapestry (2004) A

TJørn Utzon's original design for this Gobelinstyle tapestry, which hangs floor to ceiling in the remodeled Reception Hall, was inspired by the music of 18th-century German composer and musician Carl Philipp Emanuel Bach.

BEGINNING OF DUNEDIN'S RAILWAY

In the early 1860s, gold was discovered in Dunedin and miners poured into the region. The money gold brought in ensured that, for a time, Dunedin was the commercial capital of New Zealand and railroads were built to transport the growing population. The first rail journey, with the new "Josephine" trains, was from Dunedin to Port Chalmers on September 10, 1872. In 1875, a second station was built in Dunedin to ease the busy first one; a third followed in 1879. The number of passengers continued to grow, so Dunedin Railway Station was commissioned.

AN ARCHITECTURAL CHALLENGE

The construction of Dunedin Railway Station was a great feat of engineering. Built on the foundations of the old harbor, iron-bark piles had to be driven deep into the reclaimed land to prevent flooding. George Troup used a number of railroad staff, whom he had trained in the art of stonemasonry, to help build the station. Machinery, including cranes, was loaned by New Zealand Railways for use during the building work to reduce costs. It is believed that New Zealand's first electrically driven concrete mixer was used in the station's construction. Costing £120,500, the station was seven times larger than its predecessor, Dunedin's third station, built in the late 1800s.

THE DESIGN OF DUNEDIN STATION

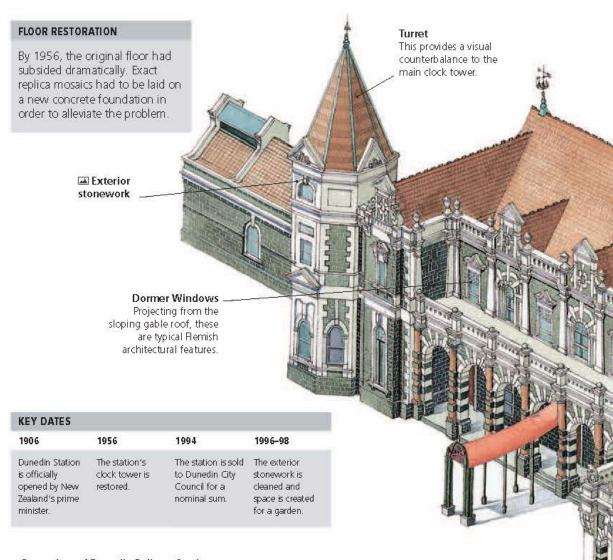
George Troup (1863–1941) arrived in New Zealand in 1884, after emigrating from Scotland following an apprenticeship in architectural design. He quickly secured a job with New Zealand Railways in Dunedin, where he was employed to design bridges and stations. He was soon promoted to head of the architectural branch, and while working in this new role he designed Dunedin Railway Station. No expense was spared to create this magnificent building. The roof is adorned with red Marseille tiles, while the exterior stonework features lavish, ornate detailingreferred to as "Gingerbread style." Inside, the mosaic floor is covered with decorative tiles, some of which feature images of railroad engines, wheels, signals, and wagons.

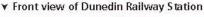
Dunedin Railway Station



Frieze with cherub and foliage

One of New Zealand's finest historic buildings, Dunedin Railway Station is also one of the best examples of railroad architecture in the southern hemisphere. Although not large by international standards, the station's delightful proportions lend it an air of grandeur. It was designed in the Flemish Renaissance style (Renaissance Style, see p.131) by New Zealand Railways architect George Troup, whose detailing on the outside of the building earned him the nickname "Gingerbread George."



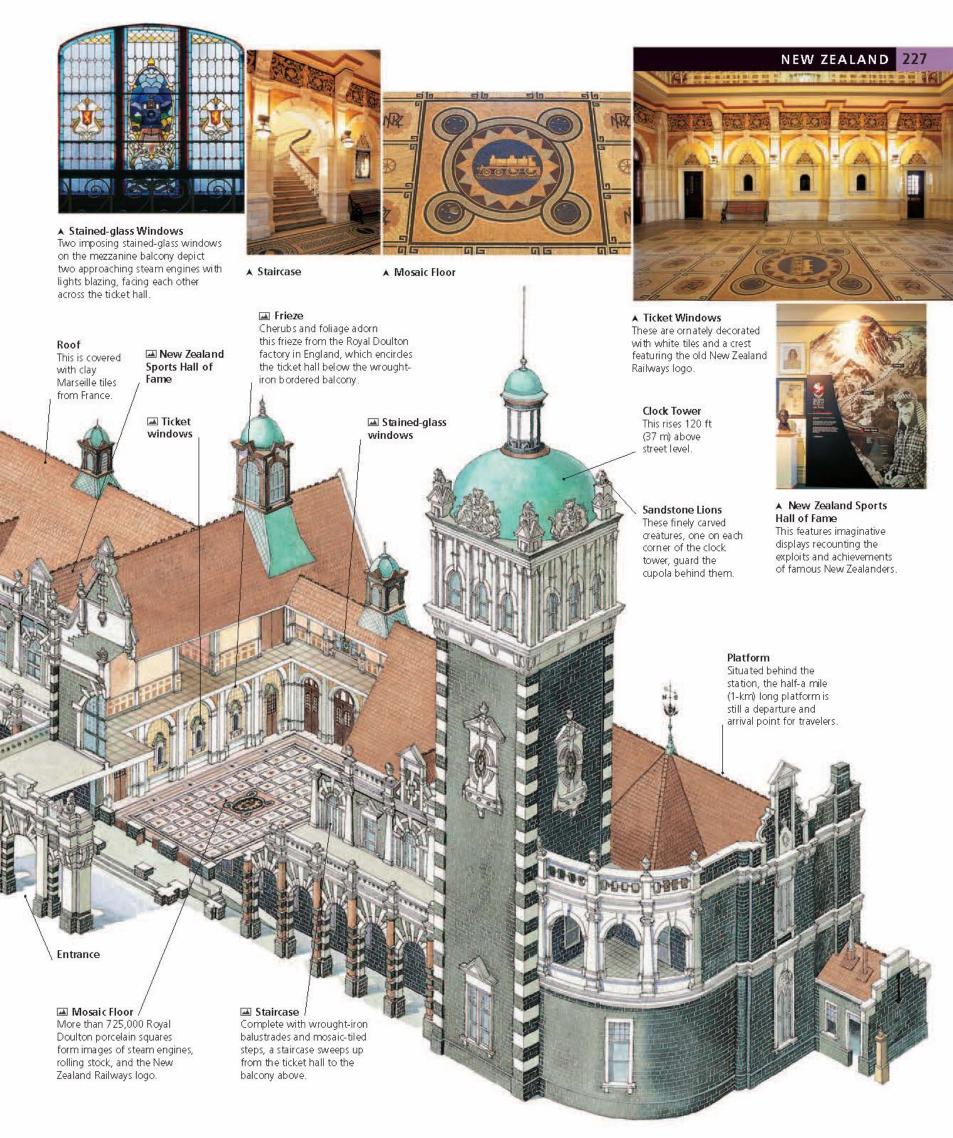




▼ Exterior Stonework

Beige Oamaru limestone detailing provides a striking contrast to the darker Central Otago bluestone on the walls and the finely polished Aberdeen granite of the columns.







THE AMERICAS





ST. ANNE MUSEUM

The shrine's museum displays works of art that attest to the early Québec settlers' devotion to St. Anne, with wax figures, paintings, and educational artifacts illustrating her life and cult in North America. One of the most important pieces is an 18th-century sailor painting, which depicts the French mariners who prayed to St. Anne to save them from a storm; when they survived, they built a shrine in her honor on the banks of the St. Lawrence River.

IN AND AROUND THE BASILICA

There are two chapels on the lower level: the blue-painted Immaculate Conception Chapel and the Blessed Sacrament Chapel. Also on the lower level is a copy of Michelangelo's Pietà, and the tomb of Venerable Father Alfred Pampalon (1867-96), patron saint of alcoholics and drug addicts. The main church is on the upper level, where hundreds of crutches, braces, and artificial limbs attest to miraculous cures. The earliest healing here, in 1658, is said to have been that of Louis Guimond, a crippled man who insisted on carrying stones for the construction of the first church despite his affliction, and who was cured before the other workers' eyes. Pilgrims gather on the wooded hillside beside the shrine to follow the Way of the Cross and to ascend the Santa Scala, or "Holy Stairs," a replica of the staircase that Jesus climbed to meet Pontius Pilate

THE LIFE OF ST. ANNE

Although the Bible makes no mention of the mother of the Virgin Mary, early Christians had an interest in knowing more about Jesus' family, especially his mother and grandmother. A 3rd-century Greek manuscript called the Revelation of James tells the story of Jesus' grandparents, naming them Anne (from Hannah) and Joachim. According to this account. Anne of Bethlehem and Joachim of Nazareth, a shepherd, were childless after 20. years of marriage. Each cried out separately to God, asking why they were childless, and vowing to dedicate any offspring to his work. An angel came to Joachim and Anne, and they learned that they were to have a child, Mary, who became the mother of Christ.

Sainte-Anne-de-Beaupré

The shrine to St. Anne, mother of the Virgin Mary, is the oldest pilgrimage site in North America.

In 1620, a group of sailors who had survived a shipwreck established the shrine and dedicated it to St. Anne. In 1658, a chapel was erected and since then several churches have been built on this site. The fifth and present one, which dates from the 1920s, receives 1.5 million visitors every year, including those who come for the annual pilgrimage on St. Anne's feast day (July 26). The collection of crutches inside the basilica's entrance bears witness to its reputation for miraculous cures. Inside, the dome-vaulted ceiling is decorated with gold mosaics portraying the life of St. Anne. She is also represented in a large gilt statue in the transept, cradling the Virgin Mary.

THE BASILICA

In 1876, St. Anne was proclaimed patron saint of Québec, and in 1887 the existing church was granted basilica status. The Redemptorist order became the guardians of the shrine in 1878.

Great Rose

Window

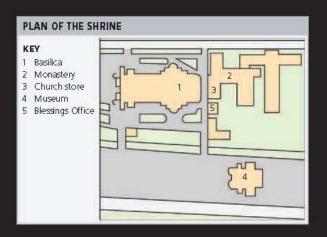
Great Rose Window

window was designed by

the French artist Auguste

Labouret in 1950

This beautiful stained-glass



▼ Façade

The present basilica was built by the Canadian architect Napoleon Bourassa. He based the design on a mixture of Gothic and Romanesque principles.

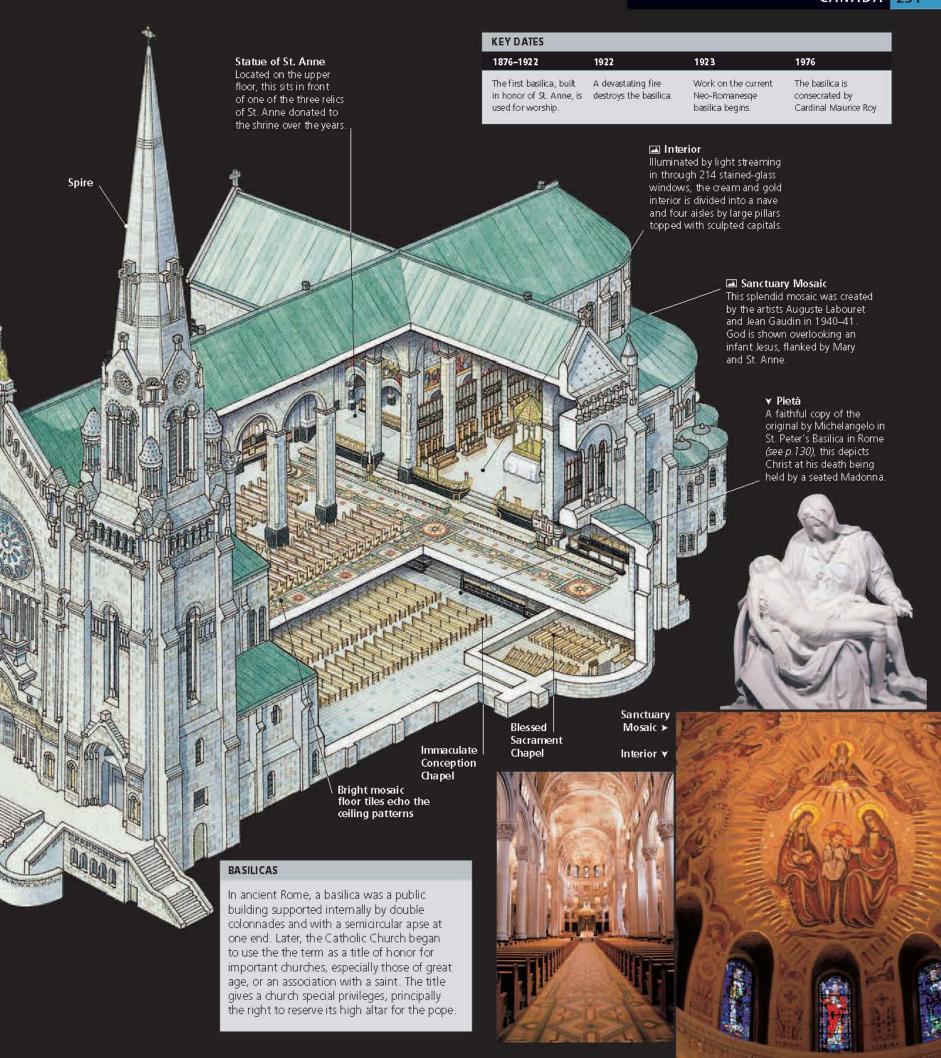


▼ Sailor Painting

The oil on wood painting *Three*Shipwrecked Sailors from Levis (1754) is
one of a collection of marine ex-votos
(a votive offering made to a saint) on
display in the St. Anne Museum.



Entrance / to the basilica's upper level



THE AMERICAS



OBSERVATION DECKS

The **Lookout Level** enables visitors to look out across Toronto. Actually built over several levels, the upper tier has a café and a photo shop. One level below, visitors can feel the wind at 113 stories up, peer straight down through the **glass floor** or dine in the **revolving restaurant**. Thirty-three stories above the lookout, the **Sky Pod** is higher than many of the world's tallest skyscrapers, even though it is not the top of the CN Tower. With an impressive 360-degree view of Toronto and Lake Ontario, on a clear day visitors can see as far as Niagara Falls from this observation deck.

FASCINATING FACTS

Construction of the tower began in 1973, took about 40 months to complete, and cost around CA\$63 million. A 75,000 sq-ft (6,968 sq-m) entertainment expansion and renovation was completed in 1998 at a cost of CA\$26 million. The tower has six elevators, which travel at 15 mph (24 km/h) and reach the Lookout Level at 1,136 ft (346 m) in 58 seconds; a separate elevator takes visitors 329 ft (101 m) higher to the Sky Pod. The tower is flexible, and in winds of 120 mph (195 km/h), the Sky Pod can sway 18 inches (0.48 m) from the center. Every year, about 2 million people visit the tower.

THE WORLD'S TALLEST BUILDINGS

When assessing a structure for its ranking in the Tallest Buildings in the World list, the international organization the Council on Tall Buildings and Urban Habitat (CTBUH), which sets the criteria for defining and measuring tall buildings, includes only those where at least 50 percent of the height is occupied by useable floor area. It also only measures a building's architectural height and excludes broadcasting aerials and masts. The CN Tower does not meet these criteria, and so it is categorized as a freestanding structure. The tower was the world's tallest freestanding structure from 1975 until 2007, when its height was surpassed by the 2,717-ft (828-m) Burj Khalifa in Dubai, which currently tops the CTBUH's Tallest Buildings in the World list, and the Guangzhou TV & Sightseeing Tower in China, which is 2,000 ft (610 m) high.

CN Tower, Toronto

This 1,815-ft (1,553-m) high engineering marvel has been classified as one of the Seven Wonders of the Modern World. In the 1970s, the railway conglomerate Canadian National Railway (CN), in consultation with local broadcasters, decided to build a new transmission mast to meet Toronto's growing telecommunications needs and to demonstrate its pride in the city. Upon its opening, the tower so impressed visitors that it soon became one of Canada's principal tourist attractions. Its revolving restaurant is renowned for both its food and wine, and its spectacular views.

The CN Tower at night ➤

▼ The tower from Lake Ontario
The tower's height is emphasized
by the lower buildings of Toronto's
Harbourfront.





A Sky Pod











A View of the CN Tower from Centre Island's gardens

✓ Glass Floor

The ground is more than 1,122 ft (342 m) below this thick layer of reinforced glass, made from 256 sq ft (24 sq m) of solid glass that is five times stronger than the weight-bearing standard for commercial floors.





▲ Outdoor Observation Level

Open to the elements, this outdoor terrace is secured with steel safety grills. Air temperatures at this height can be up to 50°F (10°C) cooler than at ground level.

▼ View of Toronto from the Lookout Level

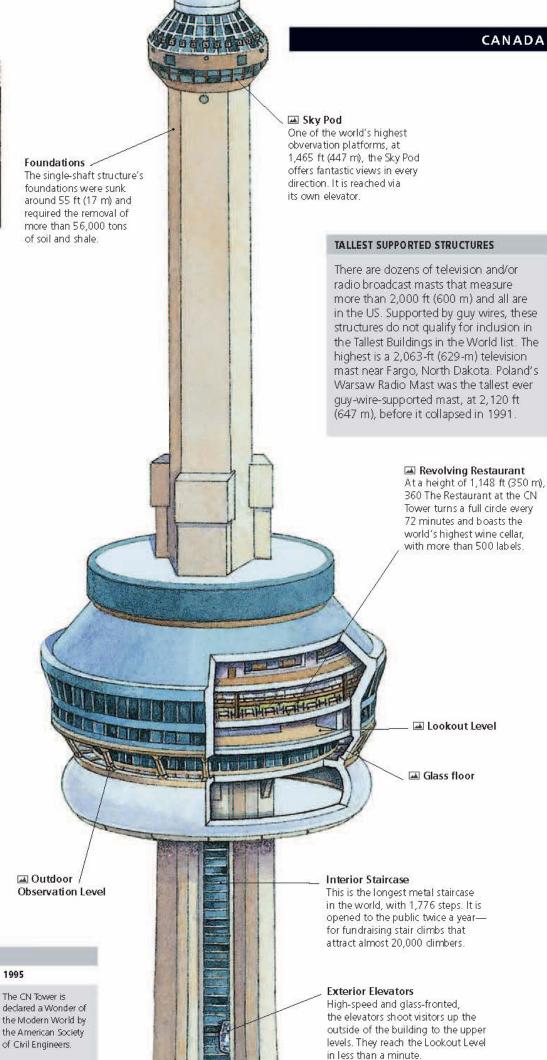
At 1,136 ft (346 m) above the city, this level provides panoramas of Toronto, Lake Ontario, and the surrounding area. Visibility can stretch to just under 100 miles (160 km).



▲ Toronto Islands

These small islands, separated by canals and waterways, can be seen from the lower observation deck of the CN Tower. They are a popular day trip from the Harbourfront.

1976



KEY DATES

1973

Work begins on the the CN Tower, which is to address the city's communication. problems.

The CN Tower opens to the public and a time capsule is sealed to mark the event

The first annual stair climb is held for charity.

1977

The CN Tower is declared a Wonder of the Modern World by the American Society

THE AMERICAS

Old State House, Boston

Dwarfed by the towers of the Financial District, this historic building is typical of the modest and unique architectural style of New England in the 18th century. It was the seat of British colonial government between 1713 and 1776 and a replica royal lion and unicorn decorate each corner of the east façade. After independence, the Massachusetts legislature took possession of the building, and it was used for a variety of purposes, including as a produce market, a merchants' exchange, a Masonic lodge. and a city hall. Its wine cellars now function as a downtown subway station, and it also houses Bostonian Society memorabilia.

THE FREEDOM TRAIL



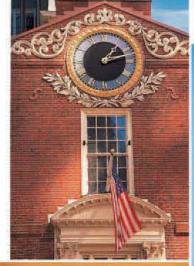
Golden Eagle Sculpture

This symbol of America can be seen on the west facade.





< East Façade



Sixteen of Boston's most significant historic sights have been linked together as "The Freedom Trail." This 2.5-mile (4-km) long walking route, marked in red on the sidewalk, begins at Boston Common.



A Latin inscription, relating to the first Massachusetts Bay colony, runs around the outside of this crest. The relief in the center depicts a local Native American.





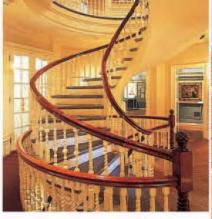




≪ Royal Lion and Unicorn

A royal symbol of Britain, the original lion and unicorn were pulled down when news of the Declaration of Independence reached Boston in 1776.





▲ Central Staircase

A fine example of 18th-century workmanship, the central spiral staircase has two beautifully crafted wooden handrails. It is one of the few staircases of its type still in existence in the US.

Council Chamber >

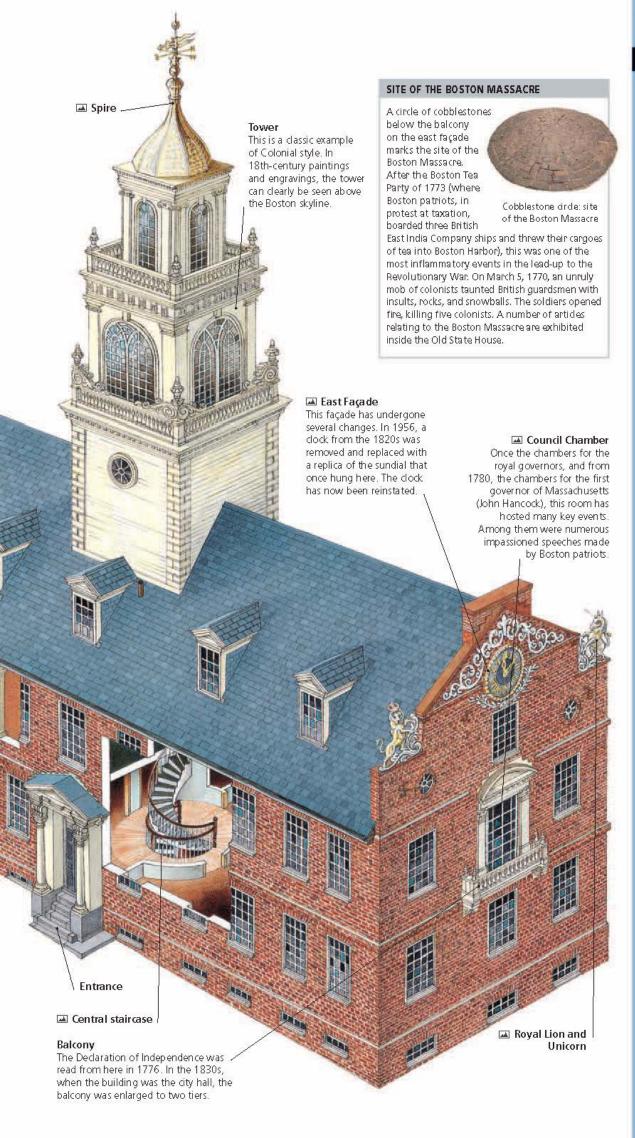


⊀ Keayne Hall

This is named after Robert Keayne who, in 1658, gave £300 to the city so that the original Town House of 1657–8 could be built. Exhibits in the room depict events from the Revolutionary War.

KEY DATES

1830-40 1713 1780-98 1840-80 1881 Boston's first Town The Old State House The building serves The building is After renovation, the The building falls The Old State Britain's Queen Elizabeth II addresses House is constructed is built as the site as the Massachusetts renovated for building becomes into disrepair after House is completely of wood; it burns of the provincial private retail Boston's city hall. being returned to restored by the city. Bostonians from State House. commercial use. the balcony down in 1711. government tenants





EARLY HISTORY

Constructed in 1713 to replace the first Town House, which had recently burned down, the Old State House is Boston's oldest surviving public building. During its period as the seat of the British colonial government, it was also the Boston center for the political activity that led to the Revolutionary War (1775-81). From the first-floor gallery, Boston's citizens could-for the first time in the English-speaking worldwatch their elected legislators debate the issues of the day. The west end housed the county and colony law courts. The wealthy merchant and patriot John Hancock, an active opponent of the Stamp Act (1765), which imposed a tax on all paper goods, and the first signer of the Declaration of Independence, had warehouse space in the basement,

THE BOSTONIAN SOCIETY

The Bostonian Society, which maintains the Old State House, also runs the museum inside the building and a library across the street. Permanent and changing displays and exhibits in the museum recount Boston's history, from its settlement through to the Revolution, and beyond. Permanent exhibitions include "From Colony to Commonwealth," which looks at the role of Boston and the Old State House in the events that led to the American Revolution, and "Treasures from the Bostonian Society's Collections," located in the Council Chamber, which features Revolutionary icons and militia equipment. There is also a sound-and-light show on the Boston Massacre of 1770.

LIFE IN COLONIAL BOSTON

First settled by Puritans in 1630, Boston became one of North America's leading colonial cities. Its life and wealth revolved around its role as a busy seaport, but its streets were crooked, dirty, and crowded with people and livestock. Other problems included waste disposal, firefighting, and caring for the numerous poor. Unlike the other major American cities outside of New England, Boston had a "town meeting" form of government. This was unusually democratic for the time and helps to explain why Boston became a center of colonial resistance prior to the Revolutionary War.



GUGGENHEIM AND WRIGHT

Guggenheim amassed his wealth through his family's mining and metal businesses, which he ran from New York. He collected modernist paintings, and in 1942, he asked Frank Lloyd Wright to design a museum to house them. The architect disagreed with the choice of New York as the project's site—he felt the city was overbuilt, overpopulated and lacking in architectural merit. But he acquiesced, and designed a structure to challenge these shortcomings. Disregarding Manhattan's rectilinear grid system, he brought a fresh notion of museum design to the city by using curving, continuous spaces.

OTHER MUSEUMS

The Solomon R. Guggenheim Foundation runs three other museums. In Bilbao in Spain, a building designed by US architect Frank O. Gehry houses a permanent collection of modern art (see p. 106). Solomon's niece, Peggy Guggenheim, donated her large villa in Venice and her collection of post-1910 masterpieces of surrealist and abstract painting and sculpture to the foundation. Opened in 1951, this museum is situated on the Grand Canal in Venice. In cooperation with Deutsche Bank, the Deutsche Guggenheim Berlin has four exhibitions a year, including performance art and music.

THE COLLECTION

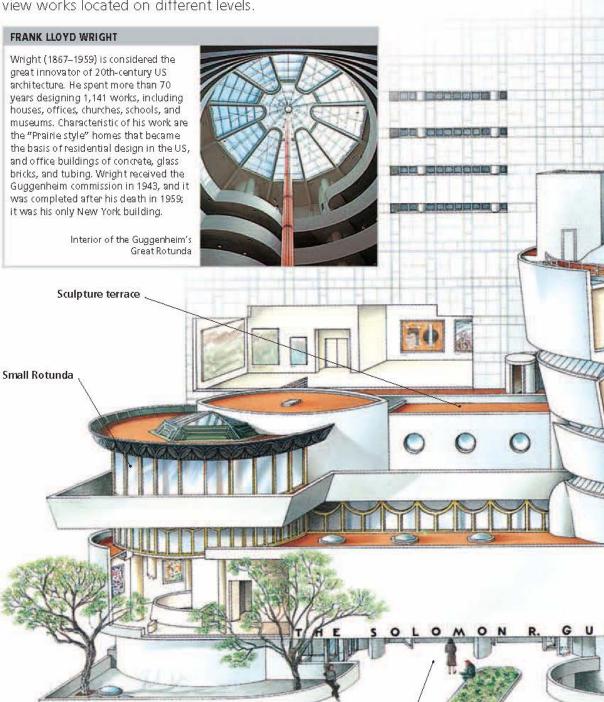
Guggenheim started out as a collector of mediocre old masters, but after meeting artist Hilla Rebay, he began to amass a superb stock of works by modernist artists such as Delaunay, Léger, and Kandinsky. The Solomon R. Guggenheim Foundation was founded in 1937 and established the Museum of Non-Objective Art, as the Guggenheim was known until 1959. in a temporary residence. Planning of the new building began in 1943, but it was not until after Guggenheim's death in 1949 that the collection was expanded to include such artists as Picasso, Cézanne, Klee, and Mangold. Thannhauser's collection of Impressionist, Post-Impressionist and early modern art, donated from 1978 to 1991 by collector Justin Thannhauser and his widow, is hung in the Tower galleries. The Guggenheim Museum's exhibits change on a regular basis.

Solomon R. Guggenheim Museum, **New York**

Home to one of the world's finest collections of modern and contemporary art, the building itself is perhaps the museum's greatest masterpiece. Designed by architect Frank Lloyd Wright, the curvaceous, shell-like façade is a New York landmark. Taking its inspiration from nature, the building attempts to render the fluidity of organic forms. Inside, a spiral ramp curves down and inward from a dome, passing works by major 19th- and 20th-century artists. The imaginative layout of the Great Rotunda gives visitors the opportunity to simultaneously view works located on different levels.



Fifth Avenue facade



Main entrance



▲ The spiral design resembles a nautilus shell, with spaces flowing one into another

Tower galleries



▲ Paris Through the Window The vibrant colors of Marc Chagall's

1913 masterpiece illuminate the canvas, conjuring up images of a magical and mysterious city where nothing is quite what it appears to be.



≺ Black Lines (1913) This is one of the earliest examples of Vasily Kandinsky's "non-objective" art.

▼ Woman Holding a Vase Fernand Léger incorporated elements of Cubism into this work from 1927



MUSEUM GUIDE

The Great Rotunda puts on special exhibitions. The Small Rotunda shows some of the museum's celebrated Impressionist and Post-Impressionist holdings. The Tower galleries feature exhibitions of work from the permanent collection, as well as contemporary pieces. A sculpture terrace on the 5th floor overlooks Central Park.



In trying to capture the flavor of 19th-century French society, Edouard Manet often used the image of the courtesan.



This sleeping figure is typical of Amedeo Modigliani's stylized work. His simplified faces are reminiscent of African masks.



Curving Interior Ramp

Used in place of conventional level floors, this leads to the top of the Great Rotunda.



A Woman with Yellow Hair (1931) Marie-Thérèse Walter, Picasso's mistress, is shown as a gentle, voluptuous figure.

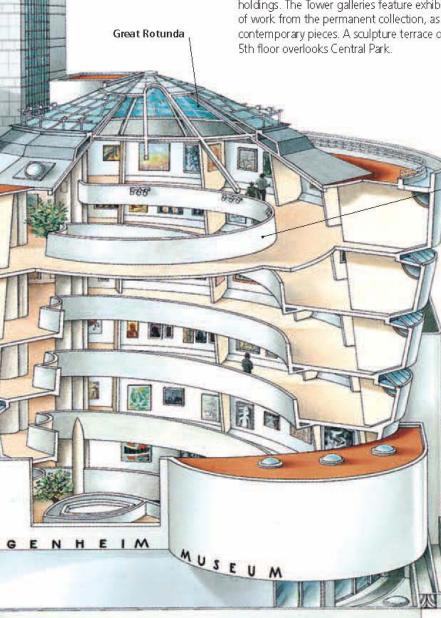


KEY DATES

1942 1949 1992 1959 Frank Lloyd Wright Guggenheim dies The Solomon R. The restored and is commissioned and the project is Guggen heim expanded musto design the delayed; it finally Museum opens eum, with a new museum. begins in 1956. on Fifth Avenue. annexe, reopens.

▲ Woman Ironing (1904)

A work from Pablo Picasso's Blue Period, this painting is his quintessential image of hard work and fatigue.





THE SKYSCRAPER RACE

With the construction of Paris's Eiffel Tower in 1889. US architects were challenged to build ever higher, and at the start of the 20th century the skyscraper race began. By 1929, New York's Bank of Manhattan Building, at 972 ft (283 m), was the city's tallest skyscraper, but Walter Chrysler, the famous car manufacturer, was planning to top that height. John Jakob Raskob, of rival General Motors, decided to join the race and, with Pierre S. Du Pont, was a major investor in the Empire State project. Chrysler kept the height of his building a secret, so Raskob had to be flexible in his planning. He first aimed at building 85 floors but, unsure of Chrysler's goal, he kept going until the building reached 102 floors, and by adding a tower, beat Chrysler by 204 ft (62 m).

THE EMPIRE STATE'S DESIGNERS

The Shreve, Lamb & Harmon company had designed some of the most notable skyscrapers in Manhattan. By the time work on the Empire State Building began, they had designed seven buildings, including 40 Wall Street (now the Trump Building), at 70 floors, which was completed in only 11 months. With a team of top engineers and contractors, using up to 3,000 workers, the Empire State Building, too, was completed under budget and in record time.

BUILDING SKYSCRAPERS

The modern skyscraper would not have been possible without several building innovations. Elevators had been in use for some time, but it was not until Elisha Otis's 1854 demonstration of his safety brake that the public began to trust them. The second necessary development was the structural steel skeleton, seen in the world's first skyscraper in 1885. With this construction, the walls became merely a sheathing, not a load-bearing element, and enormously tall, heavy buildings could now rise ever higher. Building in the heart of Manhattan presented a further problem: large amounts of essential construction material could not be kept in the street. To solve this, the aluminum elements were prefabricated and only three days' worth of structural steel was kept on site, creating an extremely complicated organizational job.

Empire State Building, New York

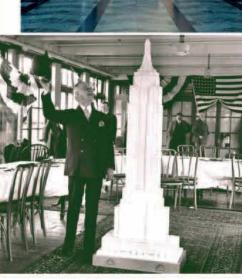
One of the world's most famous buildings, the Empire State broke all height records when it was finished. Construction began in March 1930, not long after the Wall Street Crash, and by the time it opened in 1931, it was so hard to find anyone to fill it that it was nicknamed "the Empty State Building." Only the popularity of its observatories saved it from bankruptcy. However, the building was soon seen as a symbol of New York throughout the world.



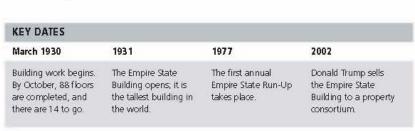
▼ Fifth Avenue Entrance Lobby A relief image of the skyscraper is superimposed on a map of New York State in the marble-lined lobby



Suspended high above Fifth Avenue, this steel worker was one of many men whose bravery was well documented in a series of photographs taken during the construction of the building.



A Al Smith, the former governor of New York State, with a model of the Empire State Building







The main entrance has a central window with crosshatched panes that bring natural light into the lobby.

ART DECO DESIGN

The Empire State Building is considered New York's last Art Deco masterpiece. The movement flourished from the 1920s to the 1940s and was noted for its use of crisp, graphic lines, geometric shapes, and vertical setbacks evocative of Aztec pyramid temples.



STARRING ROLE

320 ft

(97.5 m)



▲ Views from the Observatory

The 86th floor has outdoor observation decks for bird's-eye views of Manhattan. On a clear day, visitors can see more than 80 miles (125 km) in all directions. The observatory on the 102nd floor closed in 1994.

A natural lightning conductor, the building is struck up to 100 times a year. The observation decks are closed during inclement weather.

✓ International Icon

The Empire State Building has been seen in many movies. However, the finale from the 1933 classic King Kong is easily its most famous

guest appearance, as the giant ape straddles the

spire to do battle with army aircraft. In 1945, a real bomber flew too low over Manhattan in fog and struck the building just above the 78th floor. The luckiest escape was that of a young elevator operator whose cabin plunged 79 floors. The

emergency brakes saved her life.

The Empire State remains as imposing and elegant as when it first opened, although it has been surpassed in height and bulk.

The building was designed to be erected easily and speedily with everything possible prefabricated and slotted into place at a rate of about four stories per week.

Framework

This is made from 60,000 tons of steel and was built in 23 weeks.

CONSTRUCTION



(366 m) a minute

High-speed elevators

travel at up to 1,200 ft

Colored Floodlights

The top 30 floors are floodlit during special and seasonal events.

102nd-floor observatory

Tower

The metal, glass, and aluminum

designed as a mooring mast for airships, but this soon proved impractical. The tower was later converted into a television mast

tower on top of the building was

and now transmits TV and radio to the city and four other US states.

The building has 102 floors, but only 85 have office space

Sandwich space between the floors houses the wiring, pipes, and cables

Aluminum Panels

These were used instead of stone around the 6,500 windows. The steel trim masks rough edges on the facing.

Empire State 1,454 ft (443 m), with mast

Eiffel Tower 1,063 ft (324 m) Big Ben Great Pyramid 482 ft (147 m)

Ten million bricks were used to line the whole building

HERE EX EX EX EX

◆ Pecking Order

New Yorkers are justifiably proud of their city's symbol, which towers above the icons of other countries.



✓ Art Deco Medallions

Displayed throughout the lobby, these depict symbols of the modern age.

Empire State Run-Up In this annual event, it takes fit runners just 10 1,576 steps from the

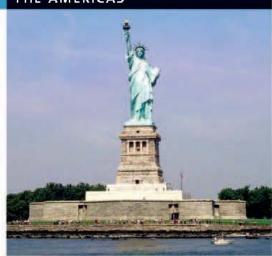
minutes to race up the lobby to the 86th floor.

More than 200 steel and concrete piles support the 365,000-ton building





THE AMERICAS



▲ Statue of Liberty National Monument

The statue sits on a 12-acre (5-ha) island at the entrance to New York's harbor. For more than 120 years, it has welcomed the millions of immigrants to the US who have arrived by sea.

Golden Torch The torch is a 1986 replacement for the original, which became corroded over the years. The replica's flame is coated in 24-carat gold leaf.

Statue of Liberty, New York

A gift of friendship from the French to the American people, the statue was a celebration of a century of independence. The brainchild of French politician Edouard-René Lefebvre de Laboulaye, it has become a potent symbol of freedom and democracy since it was unveiled by US president Grover Cleveland on October 28, 1886. Its spirit is encapsulated in a line from the sonnet engraved on its base: "Give me your tired, your poor, your huddled masses yearning to breathe free." After years of wear and tear, the statue needed restoration—it was given an expensive facelift in time for its 100th anniversary in 1986.

Face of Liberty

The sculptor's mother was the model for Liberty's face. The seven rays of her crown represent the seven seas and seven continents.

Frame

This was designed by the great engineer Gustave Eiffel, who realized that the copper shell would react to the iron frame and so put a barrier between them.

354 Steps

These lead from the entrance to the top.

THE STATUE

With a height of 305 ft (93 m) from ground to torch, the Statue of Liberty dominates the harbor.

Central Pylon

This anchors the 225-ton statue to its base.

Observation deck and museum

▲ Statue of Liberty Museum

Posters featuring the statue are among the items on display here.

Pedestal

The statue's base is set within the walls of an army fort. At the time, it was the largest concrete mass ever poured

Original 1886 Torch

This now stands in the main lobby.

STRUCTURAL GENIUS

French engineer Gustave Eiffel, creator of Paris's Eiffel Tower, was commissioned to solve the problems of building a large hollow statue that could withstand the forces of wind and weather. His solution was an internal, diagonally braced frame of 1,350 ribs and verticals. This, and his use of steel posts, were seen as structural innovations.

FRÉDÉRIC AUGUSTE BARTHOLDI

"Liberty Enlightening the World," more commonly known as the Statue of Liberty, was intended by its designer, the French sculptor Frédéric Auguste Bartholdi, as a monument to the freedom he thought was lacking in his own country. He said, "I will try to glorify the Republic and Liberty over there, in the hope that some day I will find it again here." He devoted 21 years of his life to the project, traveling to the US in 1871 to persuade President Ulysses S. Grant and others to help fund the statue's pedestal.



Frédéric Auguste Bartholdi (1834-1904)

Face of Liberty Y





▲ Ferries to Liberty Island

Ferries cross New York's harbor to Liberty Island, which was originally known as Bedloe's Island

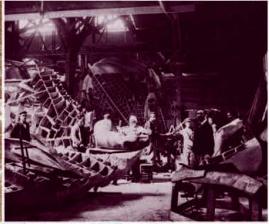


∢ Restoration Celebration

On July 4, 1986, after a \$100 million clean-up, the statue was unveiled. The \$2 million fireworks display was the largest ever seen in America.

¥ Statue construction workshop in France, c. 1882





A From Her Toes to Her Torch Three hundred molded copper

sheets riveted together make up Lady Liberty

A Making the Hand To create the copper shell, the hand was first made in plaster, then in wood.

KEY DATES 1865 1876 1886 1986 The Statue of Liberty Bartholdi has the idea Bartholdi is given the The Statue of Liberty is dedicated; is reopened after of building a tribute commission to create to Liberty in America. the Statue of Liberty. Bartholdi himself extensive restoration unveils the face.



A A Model Figure

A series of graduated scale models enabled Bartholdi to build the largest metal statue ever constructed



BUILDING THE LADY

In his Parisian workshop, the sculptor Frédéric Auguste Bartholdi began by creating four scale models, the largest at one-fourth the actual size. This was divided into 300 plaster sections, and each section was then enlarged to full size. A mold of laminated wood was made from each of these sections, and sheets of copper were pounded into the molds to a thickness of just 0.1 inch (2.5 mm). In all, 350 sheets were connected with 2-inch (50-mm) wide iron straps. The straps acted like springs, which allowed the surface to flex in high winds or extremes of temperature. The statue arrived in New York packed in more than 200 crates and was attached to the frame using an estimated 300,000 copper rivets.

FUNDRAISING

Although the French contributed to the cost of the statue, early on in the plan it was decided that funds for the pedestal would come from the US. Since fundraising was going slowly, the media baron Joseph Pulitzer used the editorial clout of his newspaper, The World, to criticize the wealthy for withholding their financial support and the middle class for relying on the wealthy. He pointed out that the statue was a gift to the entire US and attacked those who were not supporting it on the grounds that it was a New York project. Soon, the whole nation was involved, and the funds were raised.

THE MUSEUM

The Statue of Liberty Museum is located in the base of the structure. The Torch Exhibit in the lobby holds the original 1886 torch. The Statue of Liberty Exhibit, on the pedestal's second level, is a biography of Lady Liberty and an examination of the ideals for which she stands. Seven displays, featuring artifacts, photographs, videos, and oral histories, focus on her history. Another area has sections on her symbolism, exploring ideas such as "Mother of Exiles" and "The Statue in Popular Culture." There is also a display of full-scale models of Liberty's face and left foot (a model figure). A bronze plaque bearing the text of Emma Lazarus's famous sonnet, The New Colossus, was added to the pedestal in the early 1900s.

THE AMERICAS

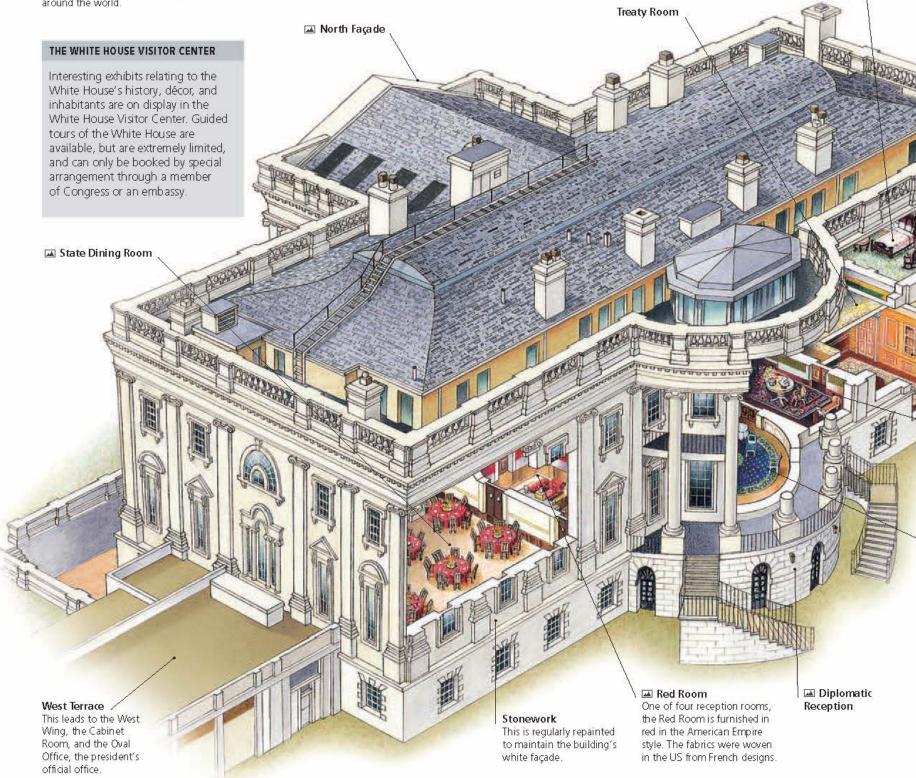
The White House, Washington, D.C.

The official residence of the president of the United States for more than 200 years, the White House is one of the most distinguished buildings in the United States and was built on a location chosen by George Washington in 1790. Irishborn architect James Hoban designed the original building in a Palladian style (Neo-Classical Style, see p.57) and when it was nearing completion, President and Mrs. John Adams became the first occupants. It has survived two fires, in 1814 and 1929, and the interior was completely gutted and renovated during Harry S. Truman's presidency, from 1945 to 1953. In 1901, President Theodore Roosevelt officially gave the White House its current name.

Lincoln Bedroom



The Palladian-style façade of the White House is familiar to millions of people around the world.







✓ Vermeil Room

This vellow room houses seven paintings of first ladies, including this portrait of Eleanor Roosevelt by Douglas Chandor (1949).

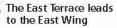
▼ Red Room





▲ Diplomatic Reception

This room is used to welcome friends and ambassadors. It is elegantly furnished in the Federal Period style (1790-1820).

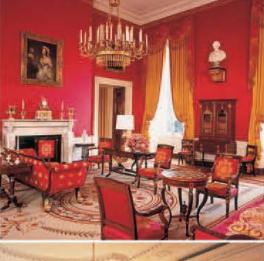


Fast Room

This room is used for large gatherings, such as dances and concerts.

State Dining Room >

Able to seat as many as 140 people, the State Dining Room was enlarged in 1902. A portrait of President Abraham Lincoln, painted by George P. A. Healy in 1869, hangs above the fireplace.





Green Room

Another reception room, this was first used as a guest room before being turned into a dining room by Thomas Jefferson. Today, it is used for small receptions and predinner cocktails for guests at state dinners.

Vermeil Room

Rlue Room

WHITE HOUSE ARCHITECTS

After selecting the site, George Washington held a design competition to find an architect to build the residence where the US president would live. In 1792, James Hoban, an Irish-born architect, was chosen for the task. The White House was built to Hoban's designs and he also reconstructed the building after the British attack in 1814. In 1902, President Theodore Roosevelt hired the New York architectural firm of McKim, Mead, and White to check the structural condition of the building and refurbish areas as necessary. The White House underwent further renovations and refurbishments during the administrations of presidents Truman and Kennedy

James Hoban, architect of the White House

1902



KEY DATES

House in 1901)

1792

Construction begins on President Adams and his the Executive Mansion wife are the first to move (renamed the White into the White House

The British set fire to the White House during the War of 1812.

The West Wing is built to house the official offices of the president. Its rooms include the Oval Office

The East Wing of the White House is added, as instructed by Franklin D. Roosevelt, completing the final structure.

1942



THE WAR OF 1812

Tensions with Britain over restrictions on trade and freedom of the seas began to escalate during President James Madison's administration (1809-17). On June 18, 1812, the US dedared war on Britain. In August 1814, British troops reached Washington, D.C., and officers of the Capitol fled, taking the Declaration of Independence and the Constitution with them. On August 24, the British defeated the Americans at Bladensburg, a suburb of Washington. They set fire to the Capitol, the White House, the War Department and the Treasury, but a night of heavy rain prevented the city's destruction. The Treaty of Ghent, which ended the war, was signed on February 17, 1815.

THE WEST WING

In 1902, the West Wing of the White House was built by the architectural firm McKim. Mead, and White for a total cost of \$65,196. This wing (the West Terrace) houses the Cabinet Room, where government officials convene with the president, and the Oval Office, where the president meets visiting heads of state. Many presidents have personalized the Oval Office in some way: President Clinton chose as his desk a table given to President Rutherford B. Hayes by Britain's Queen Victoria in 1880.

THE WHITE HOUSE INTERIOR

The rooms in the White House are decorated in period styles and filled with valuable antique furniture, china, and silverware. Hanging on the walls are some of America's most treasured paintings, including portraits of past presidents and first ladies. The room that served as the Cabinet Room from 1865 for 10 presidential administrations (Treaty Room) was restored in 1961 and contains Victorian pieces bought by President Grant. The most central room on the State Floor (Blue Room) was decorated in 1817 in the American Empire style (1810–30) by President Monroe. The same style was later used by first lady Jackie Kennedy to redecorate one of the reception rooms (Red Room) in 1962. The Red Room has always been a favorite of first ladies for receiving guests.



THE DOME

By the 1850s, the original dome was too small for the enlarged Capitol. Moreover, it leaked and was deemed a fire hazard. In 1854, \$100,000 was appropriated for architect Thomas U. Walter's new dome, which was constructed of cast iron. Walter's double-dome design recalls the Panthéon in Paris. Sculptor Thomas Crawford created a 19.5-ft (6-m) high bronze to crown the dome, and in 1863, during the American Civil War (1861–5), the Statue of Freedom—a Classical female figure standing on a globe with the national motto, *E Pluribus Unum* (Out of many, one)—was raised atop the 287-ft (87.5-m) high dome.

THE ROTUNDA FRIEZE

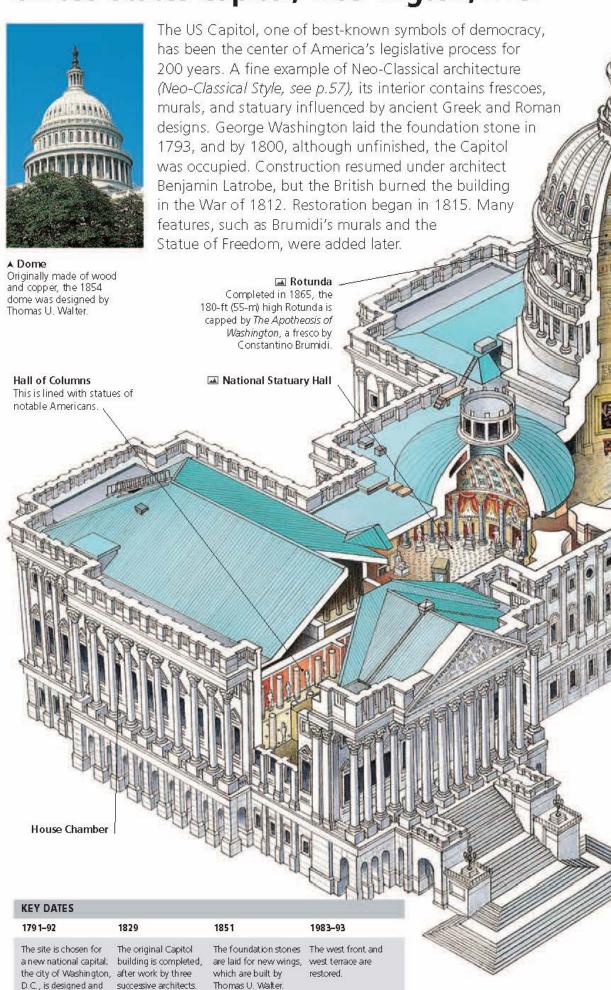
Thomas U. Walter's 1859 drawings showed a recessed, bas-relief sculpture in the **Rotunda**. The plan changed, and by 1877, a fresco 8 ft 4 in (2.5 m) high and 300 ft (91 m) in circumference was being painted. **The Frieze of American History** has 19 panels, which begin over the west door and move clockwise around the Rotunda. The first panel is the only one to contain allegorical figures, with female personifications of America and History. The rest recount major events in US history, including Columbus's landing, the colonization of New England, the Declaration of Independence, the discovery of gold in California, and the Wright Brothers' first flight in 1903.

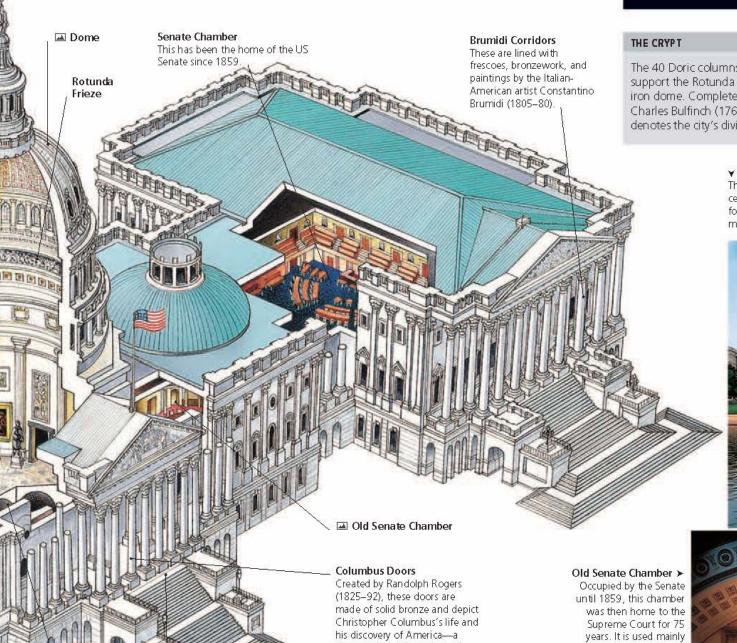
STATUARY

In 1864, Congress invited each US state to contribute two statues of notable citizens to stand in the National Statuary Hall. Soon, the collection grew too large, and much of it can now be seen in the Hall of Columns and in the various corridors of the Capitol. Statues of former US presidents Washington, Jackson, Garfield, and Eisenhower can be seen in the Rotunda. In the Statuary Hall are statues of General Robert E. Lee and President Jefferson Davis; King Kamehameha I, unifier of Hawaii; Robert Fulton, inventor of the first commercially successful steamboat; Huey P. Long, Depression-era demagogue; Sam Houston, president of the Republic of Texas; and Sequoyah, inventor of the Cherokee alphabet.

mapped.

United States Capitol, Washington, D.C.





¥ East Entrance Carved on the pediment are striking Classical female representations of America. These are flanked by figures of Justice and Hope



¥ National Statuary Hall

This 95-ft (29-m) long and 60-ft (18-m) high hall was designed to resemble an ancient Greek theater. It is topped by a magnificently painted dome.

theme echoed throughout the

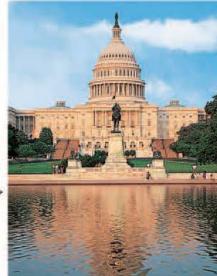
works of art in the Capitol.



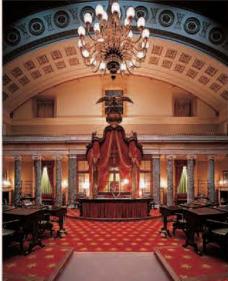
The 40 Doric columns of the circular crypt support the Rotunda and the enormous 9-ton iron dome. Completed in 1827 under architect Charles Bulfinch (1763–1844), the central rose denotes the city's division into quadrants.

▼ View of the US Capitol

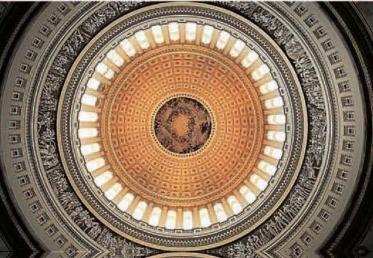
The US Capitol marks the precise center of Washington and the city's four quadrants radiate out from the middle of the building.



Supreme Court for 75 years. It is used mainly as a museum space today.



¥ Rotunda





BUILDING THE BRIDGE

The Golden Gate Bridge is a classic suspension bridge of the kind first built in the mid-19th century. Its main elements are anchorages, towers (pylons), cables, and road. Enormous concrete anchorages were poured at either end to hold the cables. The steel for the towers was fabricated in Pennsylvania and shipped through the Panama Canal. Engineer Joseph B. Strauss chose John A. Roebling and Sons, builders of the Brooklyn Bridge, to make the cables. Since no derrick of the time could lift cables as heavy as these, they were spun in place, the machines passing back and forth continuously for six months. For the bridge's paint color, architect Irving Morrow rejected the standard gray, choosing instead "International Orange," which he felt blended better with the bridge's setting.

BRIDGE PARTY

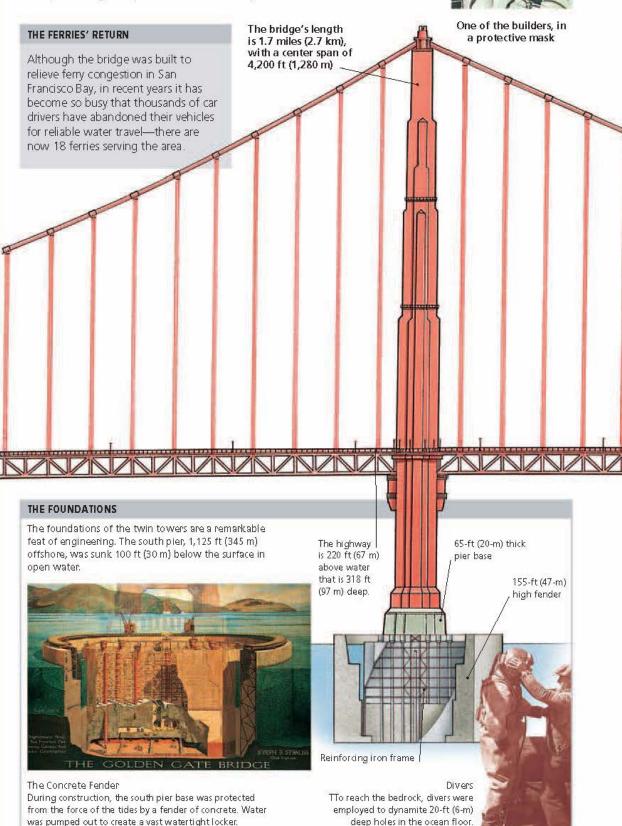
The Golden Gate Bridge opened to pedestrian traffic on May 27, 1937, on schedule and under budget. On a typically foggy and windy day, over 18,000 people took part in the grand opening by walking its total length (including the approaches) of 8,981 ft (2,737 m). The next day, President Franklin D. Roosevelt pressed a telegraph key in the White House that opened the bridge to vehicular traffic. Every siren and church bell in San Francisco and Marin County sounded simultaneously. A week-long celebration followed the event.

DESIGNER SQUABBLES

The idea of building a bridge across the Golden Gate was conceived as early as 1872, by railroad tycoon Charles Crocker, but it was not considered feasible until architect Joseph B. Strauss stepped forward with a plan in 1921. Nine years of bureaucratic wrangling passed before Strauss was named chief engineer, but it is actually assistant chief engineer Clifford Paine, and architect Irving F. Morrow, who deserve the credit for the design and building of the bridge that stands today. By all accounts, Strauss seems to have been a difficult man; he fired his first assistant chief engineer, Charles Ellis, for attracting too much publicity. Strauss even kept Ellis's name from appearing on any official documents.

Golden Gate Bridge, San Francisco

Superlatives flow when describing this world-famous land-mark. It is the third-largest single-span bridge ever built, and, when it was erected, it was the longest and tallest suspension structure. Named after the part of San Francisco Bay dubbed "Golden Gate" in the mid-19th century, the bridge opened in 1937. There are breathtaking views of the bay from this spectacular structure, which has six lanes for vehicles as well as a pathway for pedestrians and cyclists.





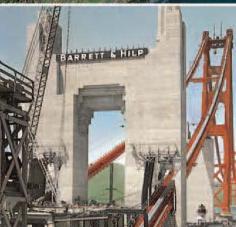


¥ View from Fort Point, at the south end



Bridge Lighting A Sodium vapor lamps were installed to provide nonglare The steel-supported concrete highway was lighting for drivers. constructed from the towers in both

directions, so that its weight on the cables was evenly distributed.



Towers >

The hollow, twin steel towers that support the bridge's suspension cables rise to a height of 746 ft (227 m) above the water. Each tower weighs 44,000 tons.

THE BRIDGE IN FIGURES

- Every day, around 118,000 vehicles cross the bridge; this means that every year more than 40 million vehicles use it.
- The original coat of orange paint lasted for 27 years, with occasional touch-ups. In 1965, the paint was removed and a more durable coating was applied. To day, this is touched up by a crew of 38 painters.
- The two great 7,650-ft (2,332-m) cables are more than 3 ft (1 m) thick, and contain 80,000 miles (128,744 km) of steel wire—enough to circle the Earth at the equator three times over.
- The volume of concrete poured into the piers and anchorages during the bridge's construction would be enough to lay a 5-ft (1.5-m) wide sidewalk from New York to San Francisco, a distance of more than 2,500 miles (4,000 km).
- The bridge can stand firm in the face of 100 mph (160 km/h) winds.
- Each of the bridge's piers has to withstand a tidal flow of more than 60 mph (97 km/h), while supporting a huge, heavy tower above.

View north, toward Marin County



Man with a Plan >

Chicago engineering titan Joseph Strauss is officially credited as the bridge's designer. He was assisted by Leon Moisseiff, Charles Ellis, and Clifford Paine. Irving F. Morrow acted as consulting architect.

KEY DATES				
c. 1872	1923	1933	1937	1985
Earliest discussions about building a bridge across the entrance of San Francisco Bay.	California legislature passes a bill to explore the feasibility of building the bridge.	Construction of the Golden Gate Bridge begins in January.	The bridge opens on time, and under budget, to great celebrations.	The one-billionth car passes over the bridge.



THE KIVAS

Usually, a pueblo had a number of adjoining kivas (pit-houses), as well as one great kiva. Early smaller kivas seem to have been dwellings, but most scholars agree that the great kivas were ceremonial places, barred to women and children, not merely community gathering sites. The first Chaco Canyon kivas appeared around AD 700, and while most were round, some were D-shaped. Kivas were entered through a hole in the roof and there was also a hole in the floor called a sipapu, which possibly symbolized the people's connection from birth with Mother Earth. Near the center was a fireplace, and air shafts on the sides of the kivas made them more livable.

OTHER ANASAZI SITES

The Aztec Ruins National Monument was built by Puebloans in the 12th century. This important archeological site lies 69 miles (111 km) north of Chaco Canyon. There is a reconstructed great kiva here, as well as a pueblo consisting of 450 interconnecting rooms built of stone and mud. Farther to the north is Mesa Verde, Spanish for "green table," which was inhabited by Puebloans between 550 and 1300. The Navajo National Monument, located 223 miles (358 km) northwest of Chaco Canyon, was also occupied by the Puebloan people in the late 13th century. Three of their best-preserved diff dwellings, including the splendid Keet Steel, are here.

THE ANASAZI

Around AD 400, the Chaco Canyon people began to settle in well-defined groups with a common culture known as "Anasazi," a Navajo name said to mean "Ancient Enemy Ancestor." For centuries, their villages stayed small, but a population explosion in the 11th century led to the construction of elaborate cliff dwellings and the building of a road system to connect some 400 settlements. Agriculture thrived—damns and irrigation systems were built and more successful strains of corn (maize) were planted to feed the growing population. However, by 1130 the towns began to empty, perhaps because of drought. People migrated, and by the 13th century the canyon was deserted

Chaco Culture National Historical Park

One of the most impressive cultural sites in the American Southwest, Chaco Culture National Historical Park at Chaco Canyon reflects the sophistication of the Ancestral Puebloan civilization (also known as the Anasazi) that existed here. With its six "great houses" (pueblos containing hundreds of rooms), and many lesser sites, the canyon was once the political, religious, and cultural center for this people. It is thought that Chaco's population was small; despite the size of the pueblos, the land could not have supported a larger community. Archeologists believe that the city was mainly used as a ceremonial gathering place, with a year-round population of fewer than 3,000 people. The inhabitants sustained themselves largely by growing crops and trading.



Arrowhead in Chaco Museum

PUEBLO BONITO

EXPLORING CHACO

The area around Chaco

beautiful ruins left behind

by the Ancestral Puebloan

Una Vida, the fifth-largest

Arroyo, and Kin Kletso,

a two-story pueblo.

KEY

Highway

Unpaved road

- Hiking route

▲ Camp site/RV

Visitor information

Picnic area

Pueblo Bonito is an example of a "great house." It was built in stages over the course of 300 years, from AD 850. This reconstruction shows how it might have looked, with its D-shaped four-story structure that contained more than 650 rooms.

> **Kivas** These were round, pitlike rooms dug into the ground and roofed with beams and earth

Kin Kletso Canyon is full of hauntingly Pueblo Alto Chetro Ketl people. In addition to the sites described here, they include Una Vida great house, with intriguing petroglyphs, Wijiji, Pueblo del Pueblo del Аггоуо Pueblo Bonito. Casa Rinconada Chaco Canyon 0 km 0 miles

KEY DATES 700-900

Domestic and ceremonial kivas are built in Chaco Canyon

Chaco Canyon serves as a religious, trade, and administration center for the Anasazi people

850-1250

Archeologist George H Pepper and his team excavate Pueblo Bonito.

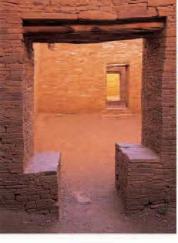
1896-1900

Edgar L. Hewitt excavates the nearby Chetro Ketl.

1920

Chaco Culture National Historical Park is named a UNESCO World Heritage Site.

1987



▲ Stone Doorway

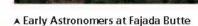
to create this finely wrought

stonework.



A Pueblo Alto

Located on top of the mesa at the junction of several Chacoan roads is Pueblo Alto. In the 1860s, W. H. Jackson discovered an ancient stairway carved into the diff wall.



Measurement of time was vital to the Puebloans for crop planting and the timing of ceremonies. A spiral petroglyph carved on Fajada Butte is designed to indicate the changing seasons through the shadows it casts on the rock.

This great

stories high

house was four

Chetro Ketl ➤

A short trail from Pueblo Bonito leads to another great house, Chetro Ketl. Almost as large as Pueblo Bonito, Chetro Ketl has more than 500 rooms. The masonry used to build the later portions of this structure is among the most sophisticated found in any Puebloan site.

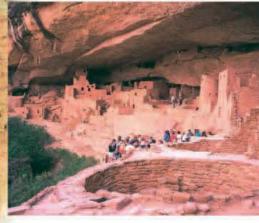
¥ Casa Rinconada

The great kiva of Casa Rinconada is the largest religious chamber at Chaco, measuring 62 ft (19 m) in diameter. It was used for spiritual gatherings.





¥ Elaborate cliff dwellings built into the walls of Mesa Verde

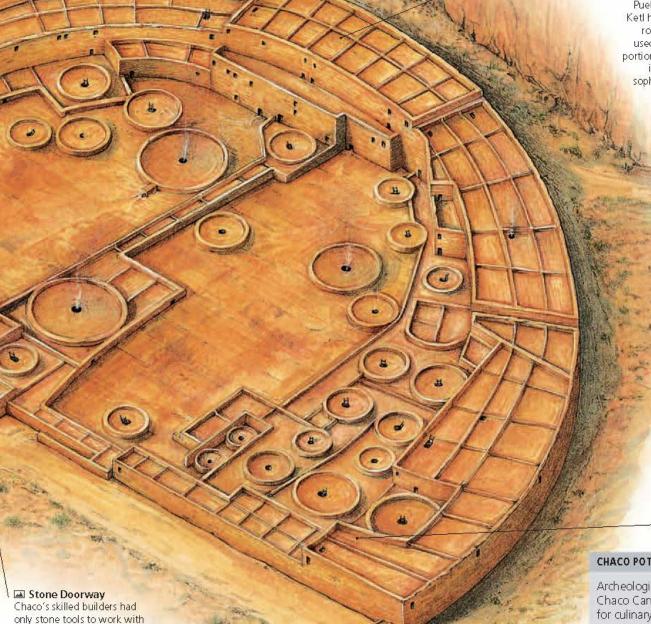


Great House Rooms

Hundreds of rooms within Pueblo Bonito show little sign of use and are thought to have been kept for storage, or for guests arriving to take part in ceremonial events.

CHACO POTTERY

Archeologists believe that the inhabitants of Chaco Canyon replaced baskets with ceramics for culinary use between 400 and 750. The ceramic pieces found here to date are decorated with geometric designs and painted using minerals and carbons.



THE AMERICAS

A Ball Court At 550 ft (168 m) in length, this is the largest ball court in Mesoamerica. Still in place are the two engraved rings that the ball had to pass through.

▼ Sacred Cenote

¥ El Castillo

Chichén Itzá

The best-preserved Maya site on the Yucatán peninsula, Chichén Itzá continues to confound archeologists. The date of the first settlement in the older, southern part of the site is uncertain, but the northern section was built during a Maya renaissance in the 11th century. Similarities with Tula, the ancient capital of the Toltec empire, and myths of exiled Toltec god-king Quetzalcoatl (Kukulcan) settling at Chichén Itzá, suggest that the renaissance was due to a Toltec invasion. However, other theories hold that Tula was influenced by the Maya, not vice versa. In its heyday as a commercial, religious, and military center, which lasted until about the 13th century, Chichén Itzá supported more than 35,000 people.



Carved figure, Temple of the Warriors

■ Ball court

Main entrance



▲ Temple of the Warriors

Set on a small pyramid, this is decorated with sculptures of the rain god Chac and the plumed serpent Kukulcan. A *chacmool* statue and two S-shaped serpent columns guard the entrance.



Tomb of the

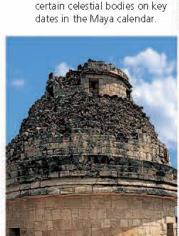
High Priest

Thousands of objects, including some made of gold and jade, were cast into the Sacred Cenote as offerings to the rain god. If a human sacrificial victim survived, they were thought to possess the power of prophecy.



≺ Nunnery

So called because its small rooms reminded the Spaniards of nuns' cells, this large structure, built in three stages, was probably a palace. This façade of the eastern annexe has particularly beautiful stone fretwork and carvings.



▼ Observatory

Also called El Caracol (The

Snail) for its spiral staircase,

this building was an astro-

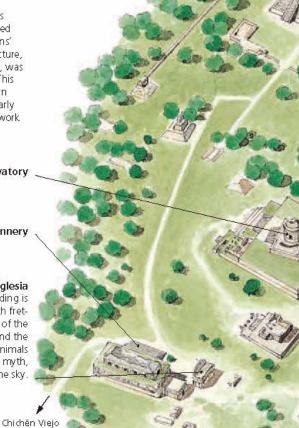
nomical observatory. The

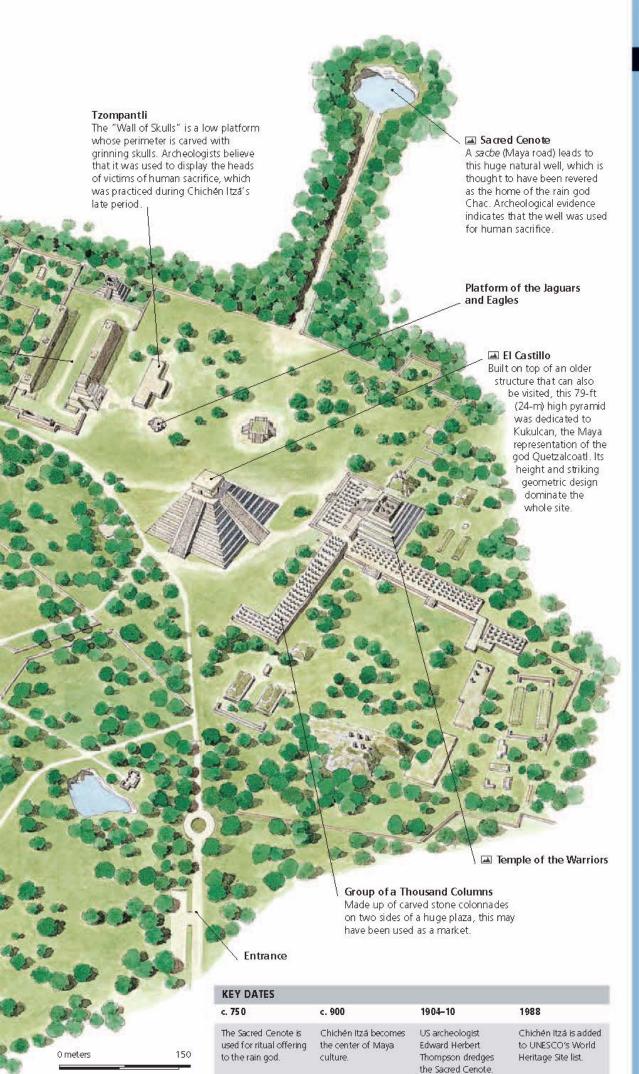
various slits in the walls correspond to the positions of



A A serpent's head representing the god Kukulcan, El Castillo







150

0 vards



MAYA DEITIES

A vast array of gods and goddesses were worshiped by the Maya. Some of them were connected to celestial bodies, such as the stars, Sun, and Moon. Others held sway over creation, aspects of daily life, and death. Deities were feared as much as revered and it was essential to appease them as much as possible, often through human sacrifice. Kukulcan, a feathered serpent, was an important deity. Chac, the god of rain and lightning, was venerated, since rainfall was vital to farming communities. Also worshiped was the Sun god Kinich Ahau, who was associated with the jaguar.

EL CASTILLO PYRAMID

Built around 800, the incredible **EI Castillo** pyramid has a perfect astronomical design. The four staircases face the cardinal points, with various features corresponding to aspects of the Maya calendar. At the two yearly equinoxes, a fascinating optical illusion occurs whereby a serpent appears to crawl down the north staircase. The temple at the top of the inner pyramid contains a *chacmool*, a carved reclining figure with a stone dish on its stomach thought to have held sacrificial offerings. There is also a beautiful, bright-red throne carved as a jaguar and encrusted with jade. The entrance to the temple is divided by snake-shaped columns.

MAYA CULTURE

Unlike other Mesoamerican peoples, the Maya did not develop a large, centralized empire, living instead in independent city-states. Once thought to have been a peaceful people, they are now known to have shared the lust for war and human sacrifice evident in other ancient civilizations. Immensely talented, the Maya had an understanding of astronomy and developed sophisticated systems of writing, counting, and recording the passing of time (Observatory). They predicted the phases of the Moon, equinoxes and solstices, and solar and lunar eclipses. They knew that the Morning and Evening Star were the same planet, Venus, and calculated its "year" to within a fraction of the true figure. Remarkably, they achieved all of this without the use of lenses for observing distant objects, instruments for calculating angles, or clocks.







THE INTERIOR

Like its exterior, the church's interior decoration is a blend of the three prevailing architectural styles of the colonial period. The Baroque altars and side chapels are particularly ornate; a highlight is the richly carved Altar de los Reyes. A statue of Christ, the Señor del Cacao, which probably dates from the 16th century, is worshiped in the Capilla de San José. The statue's name derives from the donations of coffee beans (a common currency in the precolonial era) made by the local people toward the cathedral's construction. An urn containing the remains of Emperor Agustín de Iturbide (1783-1824), the champion of Mexican Independence, is located in the chapel of San Felipe de Jesús.

CONQUISTADORS AND CHRISTIANITY

When the Spanish arrived in the Americas in the 1500s, they encountered flourishing indigenous settlements. In addition to their desire for conquest and their greed for gold, silver, copper, and land, the conquistadors also saw themselves as missionaries and attempted to convert the established Mesoamerican civilizations from paganism to Christianity. Franciscan and Dominican friars preached to, converted, and baptized the indigenous peoples. Although the New World was ultimately conquered by Europeans, elements of the indigenous cultures survived and were absorbed into the developing Christian society.

THE SINKING OF MEXICO CITY

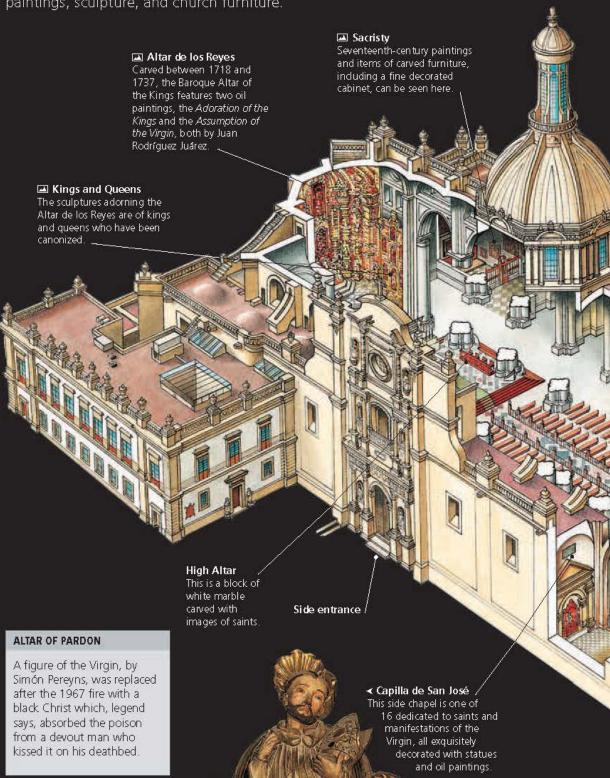
When Spanish conquistador Hernán Cortés led his army into the Aztec capital of Tenochtitlán in 1521, the city stood on an island in Lake Texcoco. After conquering the city, the Spanish razed it to the ground, reused much of the stonework in their own buildings, and gradually filled in the lake. The Metropolitan Cathedral was built on the ruins of the main Aztec temple of worship, whose stones were used in the building's walls. Like so many of Mexico City's buildings, the cathedral has been sinking, almost since its construction, into the ground beneath—the slant is quite visible. Restoration work, mostly carried out underground, has prevented its collapse.

Metropolitan Cathedral, Mexico City

The biggest church in Latin America, Mexico City's cathedral is also at the heart of the world's largest Catholic diocese. Its towers rise 220 ft (67 m) above one of the largest public squares in the world, and it took almost three centuries—from 1573 to 1813—to complete. This long period is reflected in the multiple styles of its architecture, ranging from Renaissance (Renaissance Style, see p.131) through Baroque (Baroque Style, see p.81) to Neo-Classical (Neo-Classical Style, see p.57). It has five principal altars and 16 side chapels containing a valuable collection of paintings, sculpture, and church furniture.



▲ Hymn book on view in the choir



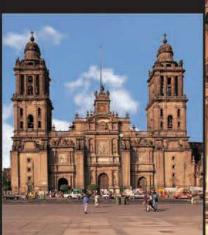


■ Interior of the

Choir

cathedral





★ Kings and Queens



≺ Cabinet in the Sacristy

y Choir

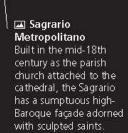
With its gold-alloy choir-rail imported from Macao, superbly carved stalls and two magnificent organs, the choir is a highlight of the cathedral



Interior of the Cathedral ➤



Altar de los Reyes ➤





Main entrance

KEY DATES

1573

onstruction	The cathedral is		
ork begins	consecrated but		
n the cathedral.	its exterior is not		
	finished until 1813.		

Façade Divided into three parts,

the façade is flanked by monumental bell towers.

1667

Fire causes damage to parts of the cathedral.

1967

A powerful earthquake damages the cathedral.

1985

Mexico City is inscribed as a UNESCO World Heritage Site.

1987



INCA ARCHITECTURE

The people who built Machu Picchu possessed incredibly advanced construction skills. Some of the building blocks weigh more than 50 tons, yet they are meticulously designed and fit together so exactly that the thinnest knife cannot be inserted between the mortarless joints. The ruins are roughly divided into two areas: the agricultural sector, consisting of terraces for cultivation; and the urban sector, with structures of varying size, canals, and steps. The design of the site reveals the creativity of the builders. The enormous walls, delicate terracing, and steep ramps could almost have been sculpted out of the rock by the elements.

HIRAM BINGHAM

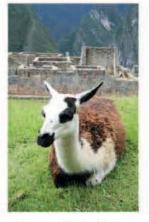
The discovery of this major Incan site in 1911 was one of the most significant archeological finds of the 20th century. American explorer Hiram Bingham had set out to find Vilcabamba, the legendary last refuge of the defeated Inca empire, but instead he came across Machu Picchu. It took Bingham and his team several years to clear the thick vegetation that had covered the ruins. Underneath were houses, temples, canals, and thousands of steps and terraces. What made the discovery so exciting was the fact that the Spanish conquistadors had not found and plundered the site, and that it was also untouched by treasure hunters.

INCA CULTURE

The Inca founded their capital, Cusco, in the 13th century and began a period of conquest. By the early 16th century, the Inca empire reached from Chile to Colombia and controlled around 12 million people. This well-organized civilization had a sophisticated economy and a road network of 20,000 miles (32,200 km) They ruled with fierce military might and had a strict social hierarchy, yet they also learned from the cultures they conquered. The Inca worshiped the natural world, seeing the Sun as the ultimate giver of life and their leader as its direct descendant. Mountain peaks, home of the spirits, were used for human sacifice. Celestial events were monitored so they knew when to plant and harvest crops, and when to hold religious ceremonies.

Machu Picchu

The "Lost City of the Inca" is one of the most spectacular archeological sites in the world. Perched high on a saddle between two peaks, surrounded by thick jungle and often shrouded in cloud, it is almost invisible from below. A compact site of just 5 sq miles (13 sq km), it was built in 1460 by the Incan ruler Pachacuti Inca Yupangui. Although frequently referred to as a city, it was more of a royal retreat for the Inca aristocracy. About 1,000 people inhabited the area and they were completely self-sufficient, being surrounded by agricultural terraces and watered by natural springs. Even at the time, few people outside the closed Inca community were aware of Machu Picchu's existence.

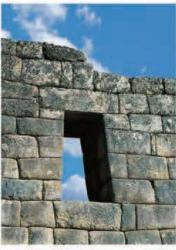


A Llama at Machu Picchu The Inca used Ilamas as pack animals and they were also a source of wool, leather hides, and meat.



▲ Intihuatana

Preserved Brick Work >



¥ Temple of the Sun





THE INCA TRAIL

The legendary Inca Trail climbs and descends a number of steep valleys and crosses three mountain passes of more than 12,000 ft (3,658 m). The breathtaking scenery includes snow-capped mountains, dense cloud forest, and delicate flowers. Cobblestones laid by the Inca, as well as the tunnels that they constructed, can still be seen. It takes about four or five days before hikers are rewarded with the unforgettable sight of Machu Picchu through the Sun gate (Intipunku).



Majestic view of Machu Picchu at the end of the Inca Trail

Agricultural terraces and irrigation channels prevented soil erosion >



A Sacred Plaza With huge windows, the Temple of the Three Windows adjoins the Sacred Plaza, along with the Main Temple, which contains an almost flawlessly constructed wall

KEY DATES				
c. 12 00	1460	Mid- 15 00s	1911	1983
The Inca found their capital at Cusco, Peru, and begin their far- reaching expansion.	Machu Picchu is built, 7,970 ft (2,430 m) above sea level.	Machu Picchu is abandoned, possibly due to civil war over succession.	The site is uncovered by US explorer Hiram Bingham.	Machu Picchu is delcared a World Heritage Site by UNESCO:





THE CITY'S LAYOUT

Brasilía's unique design is referred to as the Pilot Plan. Urban planner Lúcio Costa said he simply used a shape that followed the lie of the land. He wanted to form a centralized, geometric plan to create an ideal city, and therefore an ideal society. The design is based on two axes: a Monumental Axis and a Residential Axis. Six wide avenues are intended to provide the grandeur of a capital city, with the Supreme Court, Congress Complex, and Presidential Palace (Planalto Palace) representing the balance of the three powers. The residential area is made up of "superblocks"—six-story apartment buildings, grouped to form neighborhood units

THE COMPETITION

In 1957, Lúcio Costa and Oscar Niemeyer were announced as the winners of the competition launched to choose the urban design of Brasília. Costa was responsible for the general design of Brasilia, but Niemeyer created the main buildings. Both were students of the modernist architect Le Corbusier, the father of functional, boxlike buildings. Costa has been criticized for not providing for public transportation, and for designing a city for 500,000 people that today houses two million residents, many living in slums. However, it is generally agreed that Niemeyer achieved his goal of creating a city with "harmony and a sense of occasion" with his powerful public buildings.

OSCAR NIEMEYER

The vision of Oscar Niemeyer has become synonymous with the rise of modern Brazil. Born in 1907, Niemeyer graduated from Rio de Janeiro's National School of Fine Arts in 1934 and collaborated with Lúcio Costa and Le Corbusier on the new Ministry of Education and Health in Rio. His style became more daring as he incorporated reinforced concrete into his buildings. He is probably best known for his designs for the main public buildings in Brasília, such as the concave and convex domes of the National Congress, the simple yet evocative cathedral and the spectacular Palace of Justice. A pioneer of modern architecture, he has won numerous prizes.

Brasília

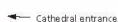
A 20th-century city of pure invention, Brasília is the realization of a seemingly impossible dream. President Juscelino Kubitschek de Oliveira (1956–60) was elected partly on the basis of his highly ambitious pledge to move the capital of Brazil 746 miles (1,200 km) inland, from Rio de Janeiro into the country's empty center, before the end of his first term. This was miraculously achieved by the tens of thousands of workers who created the specially built city from an area of scrubland. The principal public buildings, which include a cathedral, are strikingly designed. Brasília fulfilled Kubitschek's ambition to develop the country's interior and create a monument both to modern architecture and Brazil's economic potential.

BRASÍLIA CATHEDRAL

The striking yet simple form of the cathedral provides Brasília with a recognizable identity. An illusion of space is created in the interior by the circular floor being set below ground level and therefore lower than the entrance.

Baptistry

This unusual, egg-shaped building is said to be a representation of the host (sacramental bread). It is connected to the cathedral by a tunnel.



A PRIESTLY VISION

In 1883, an Italian priest named Dom Bosco had a vision about the future site of Brazil's new capital. Each year, on the last Sunday in August, a procession in Brasília celebrates the anniversary of his dream.





KEY DATES

1956

Kubitschek is inaugurated Construction of the as president of Brazil, A city begins, based on competition is launched Lúcio Costa's Pilot Plan for the design of Brasilia.

1957

The foundation stone of the cathedral is laid: the building is consecrated the capital city of Brazil. in 1970.

1958

Brasilia is inaugurated on April 21 and becomes

1960

Brasilia is designated a World Heritage Site by UNESCO.

1987

Cathedral Design

Oscar Niemeyer's design symbolizes a crown of thorns, and consists of sixteen 131-ft (40-m) high concrete columns that suggest arms reaching toward the sky.

■ Nave

This is decorated with stained glass made from 16 pieces of painted fiberglass. Suspended from its ceiling are three floating angels by the Brazilian sculptor Alfredo Ceschiatti.

THE PILOT PLAN

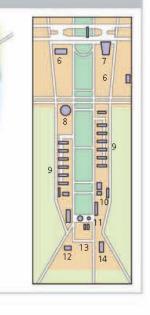
Brasilia's design, the Pilot Plan, is based on the shape of an airplane: the Monumental Axis (the fuselage) intersects with the Residential Axis (the wings). Two main traffic arteries divide the city, while the infrastructure is strictly divided into sectors.

KEY

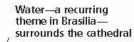
- J.K. Memorial
 Residential Axis
- 3 Hotel sectors
- 4 Commercial sectors
- 5 Embassy sectors
- 6 Cultural sectors 7 National Theater
- 8 Brasilia Cathedral
- 9 Esplanade of the Ministries

Monumental Axis (see inset map)

- 10 Palace of Justice
- 11 Congress Complex
- 12 Supreme Court
- 13 Plaza of the Three Powers
- 14 Planalto Palace



▼ Alfredo Ceschiatti's sculpture *The Four Evangelists* stands outside the cathedral



South

Wing

North

Wing

Lake

Paranoá





¥ JK Memorial

Inaugurated in 1981, this monument was built to honor the former Brazilian president Juscelino Kubitschek, whose tomb is housed here.



The juxtaposition of the dishes and twin towers provides the dramatic, space-age silhouette that is a symbol of the city.

■ Pulpit





▼ Palace of Justice
This low-rise, unimposing

building features water cascading between its delicate

white arches. Nearby is a

of Juscelino Kubitschek.

stone sculpture of the head

Nave >



Monumental Axis A

Light gilds the row of rectangular buildings standing sentrylike along the Esplanade of the Ministries. Each one is home to a different government department. In the distance is the Congress Complex.

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