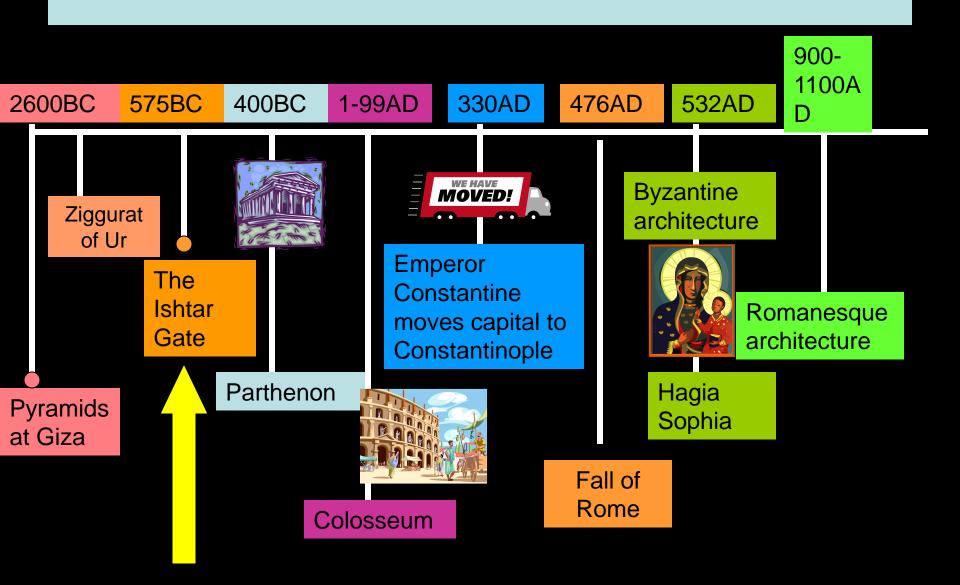


Sir Bannister Fletcher Author of, The History of Architecture

Ancient Architecture Timeline



What is architecture?

Architecture is the style or character of a building.



Great Pyramid at Giza

2.3 million
limestone blocks
carried from
quarries down the
Nile



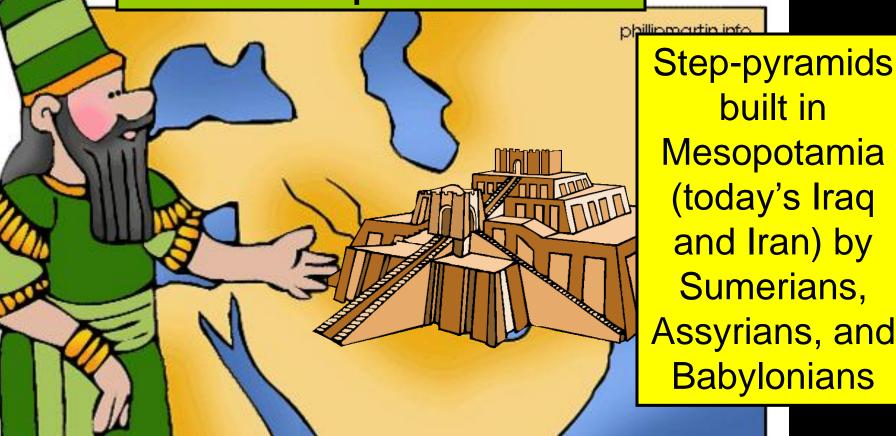
Tallest manmade structure in the world for over 3800 years

Took 14-20 years to build



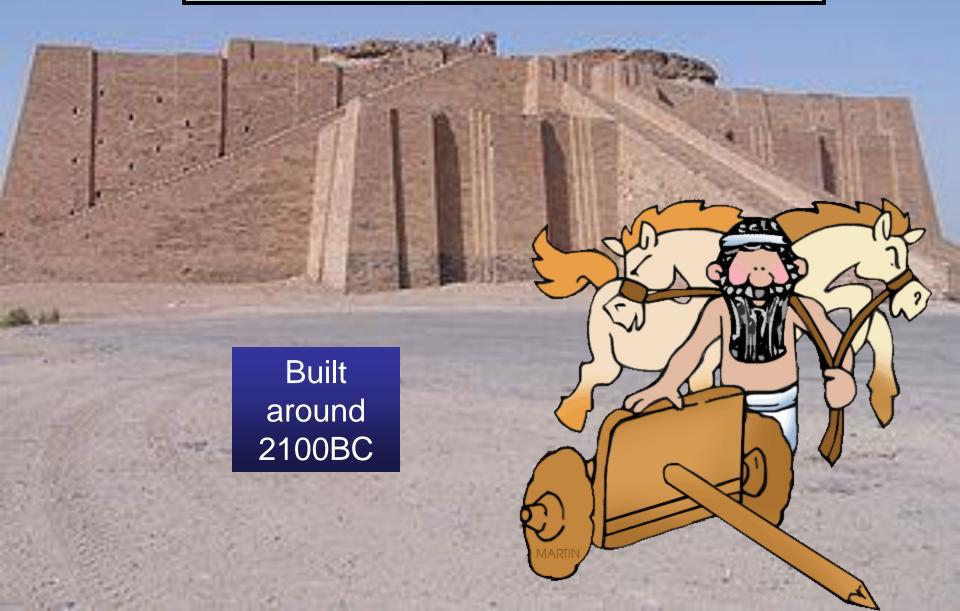


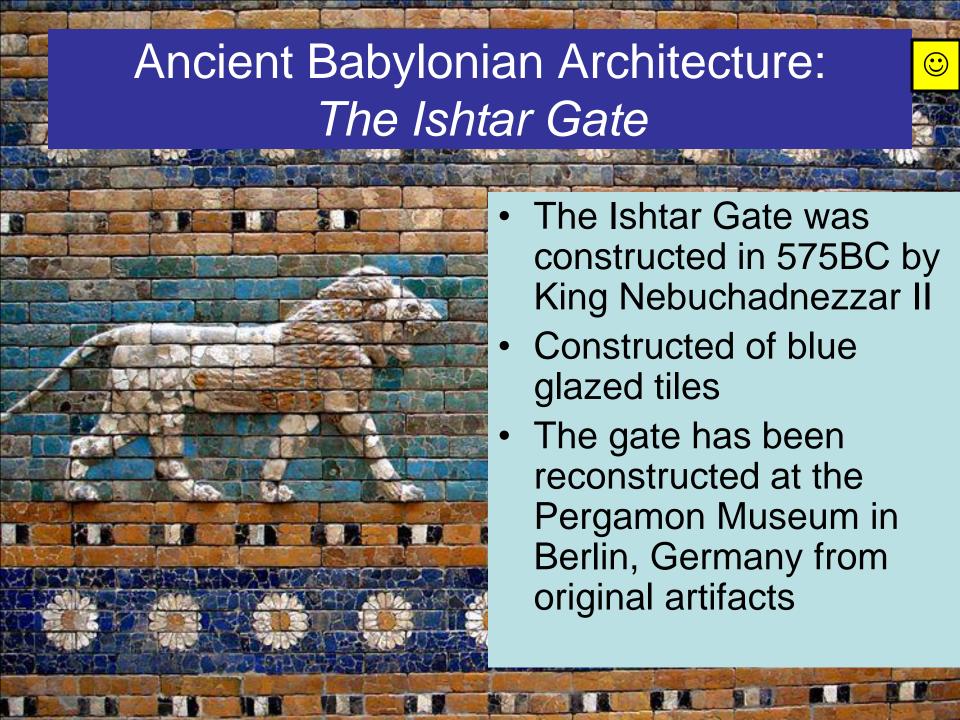




Great Ziggurat of Ur



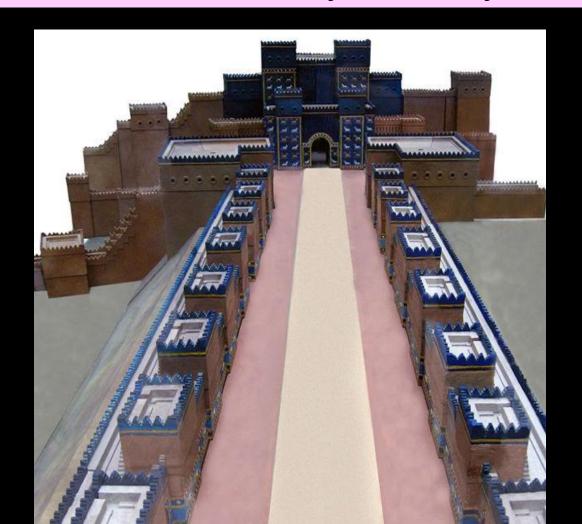




The Ishtar Gate (575BC):



one of the entrances to the ancient city of Babylon

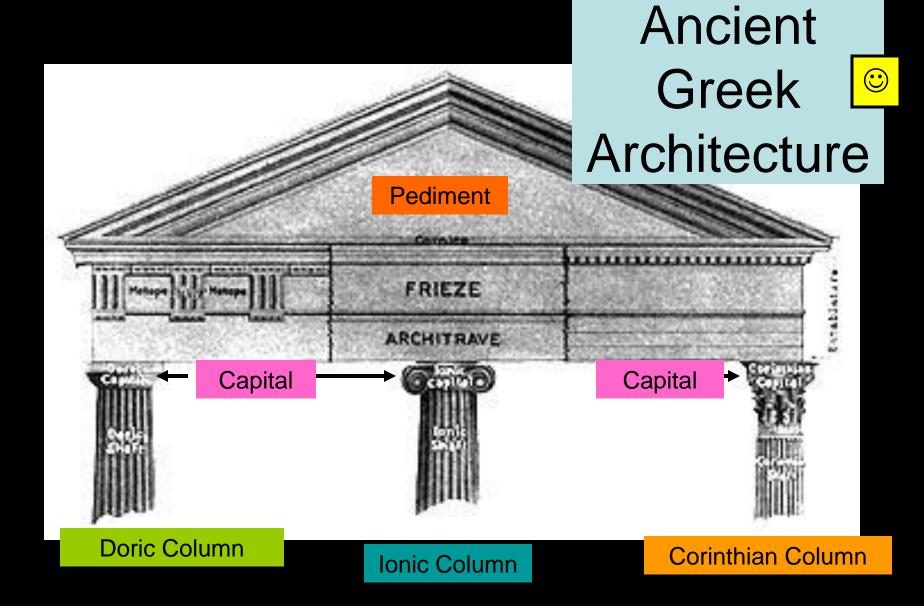


Dedicated to the Babylonian goddess, Ishtar



The Ancient Greeks

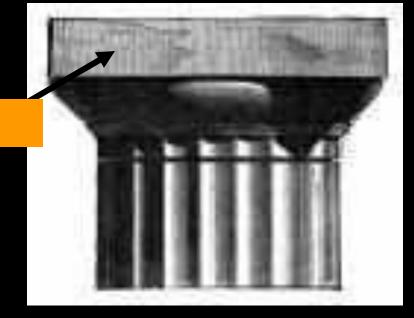
- Known for their temples and open-air theatres
- Columns determined temple style
- •Roof tiles replaced thatched roof around 700-650BC (better fire protection)
- Architect was treated as a craftsman



Doric Column

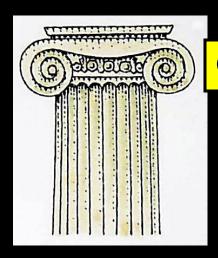






Ionic Capital



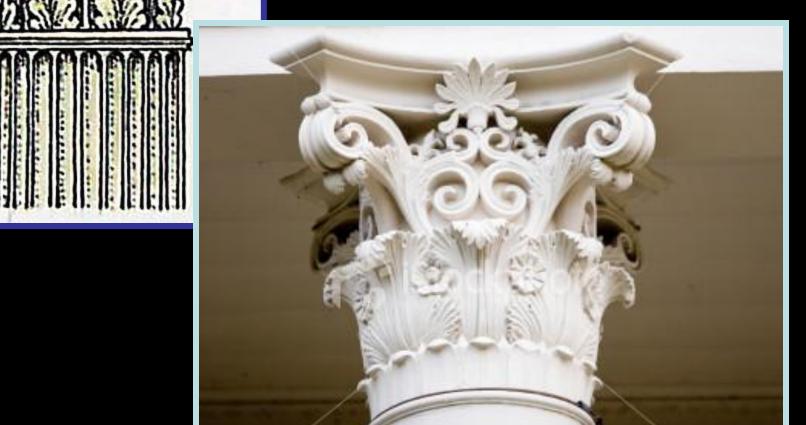




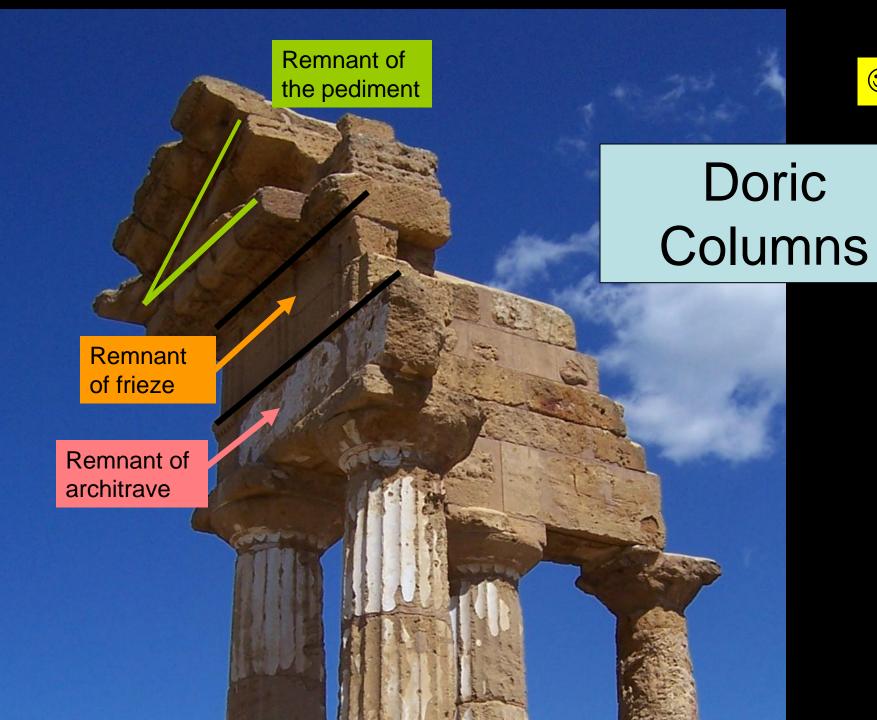
















Which type are these columns?



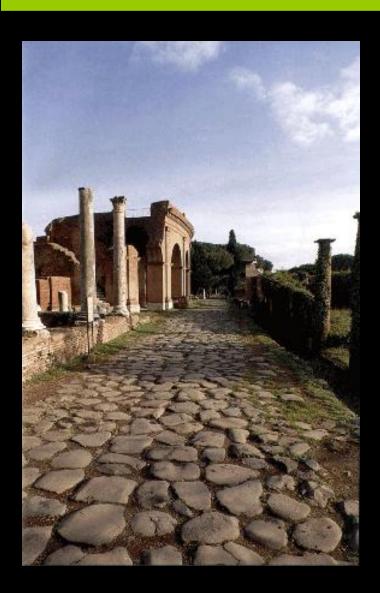




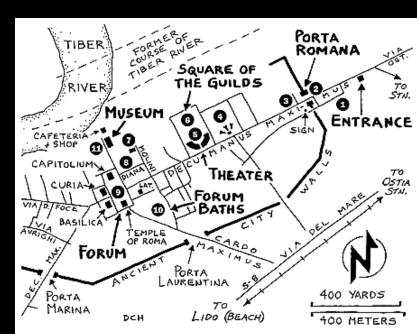
Which type are these columns?



Ostia Antica



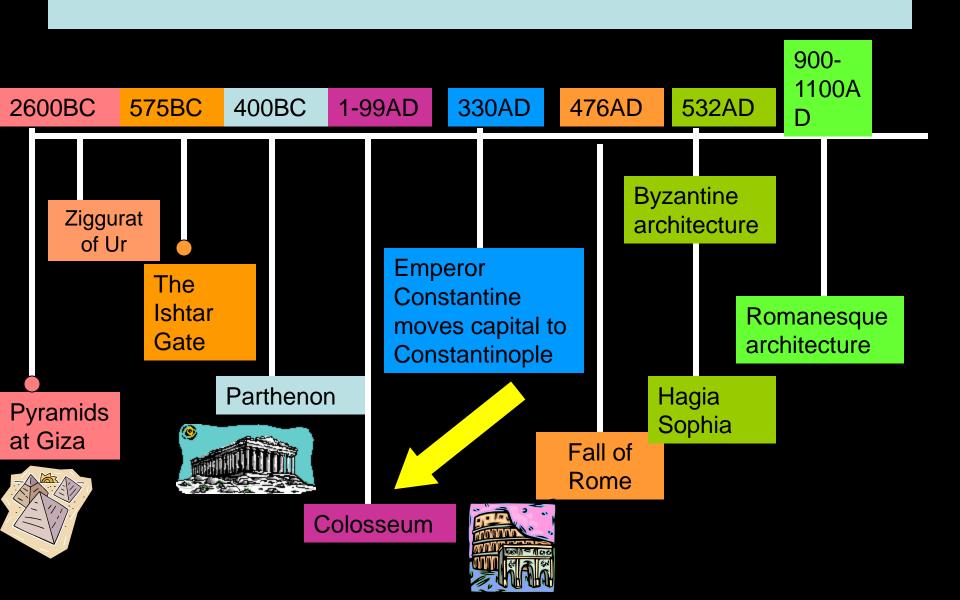
- Roman town
- Seaport founded 620 BC as naval base
- Later commercial center and Rome's food pantry



- NECROPOLIS
- PORTA ROMANA
- REPUBLICAN WAREHOUSES
- BATHS OF NEPTUNE
- THEATER
- SQUARE OF THE GUILDS

- MILL
- VIA CASA DI DIANA
- FORUM
- FORUM BATHS
- MUSEUM

Ancient Architecture Timeline

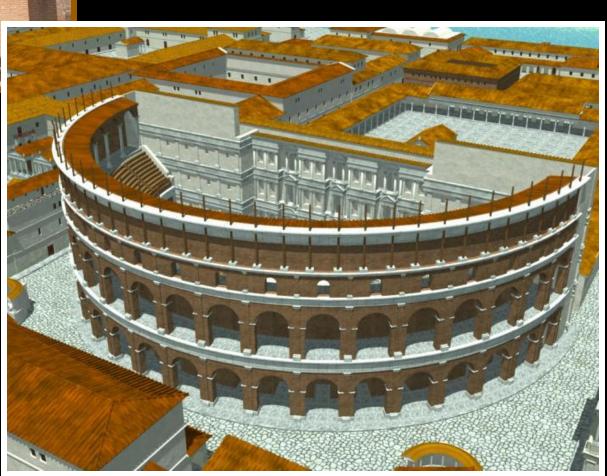




Ostia Antica: Theatre

Pronounced os-tia an-teek-a

Built 196 AD



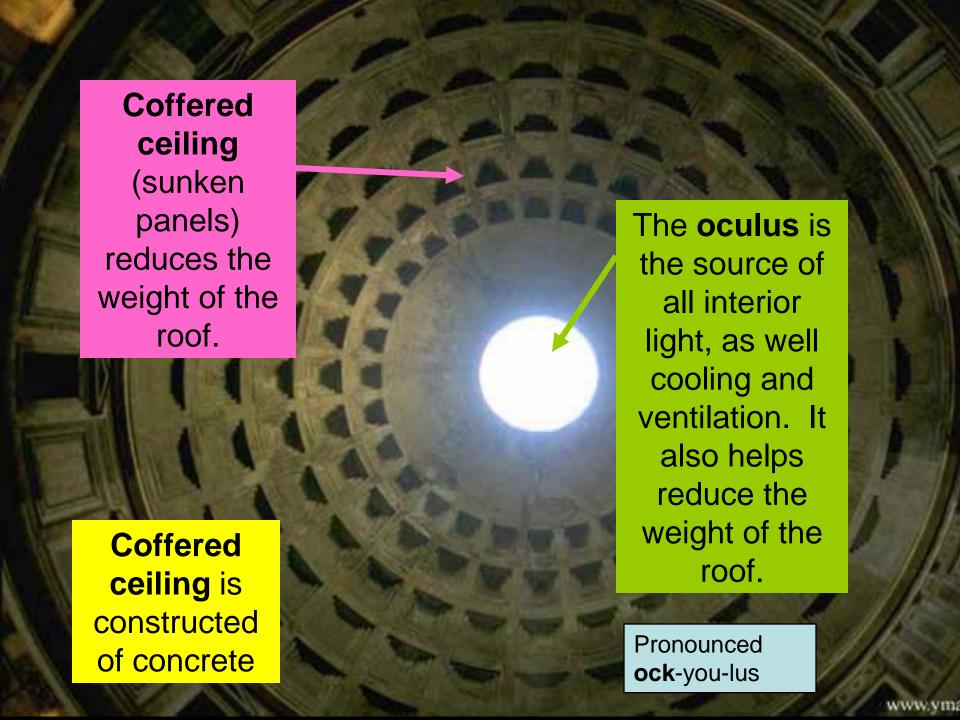
- Originally built as a temple in 432BC, then rebuilt in the 2nd century AD
- Used as a church since the 7th century; the artist, Raphael, is buried here
- Inspired Brunelleschi's 42-meter dome in Florence (1436), the first sizeable dome to be constructed in Western Europe since Late Antiquity

The Pantheon in Rome









Roman Architecture – The Colosseum in Rome, Italy

- Based upon
 Greek
 architecture
- Roman brick covered with marble
- Built under Roman emperors, Vespasian A& Titus
- 1-99AD



- Artificial building material consisting of an aggregate (gravel, crushed bricks, etc.), a binding agent such as pozzolona (volcano dust) or gypsum, & water
- Romans shaped concrete into arches & vaults, foundations, patios, fireproof ceilings, and harbor structures
- Romans covered concrete with brick or lava stone to make it more attractive

Roman concrete



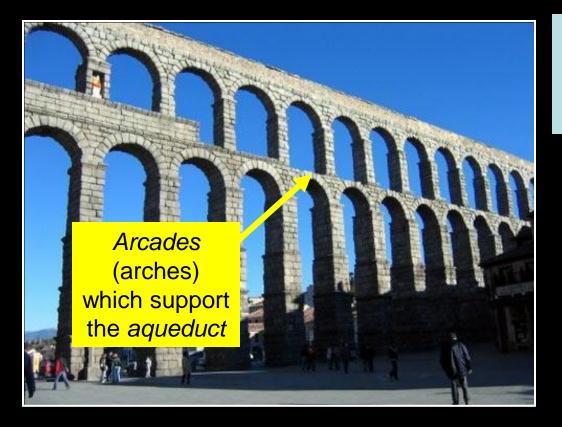
Pantheon ceiling: concrete

Roman Building Materials: Roman Brick



Romans used bricks in many buildings & took their knowledge of brick-making to other lands they conquered, including Britain.







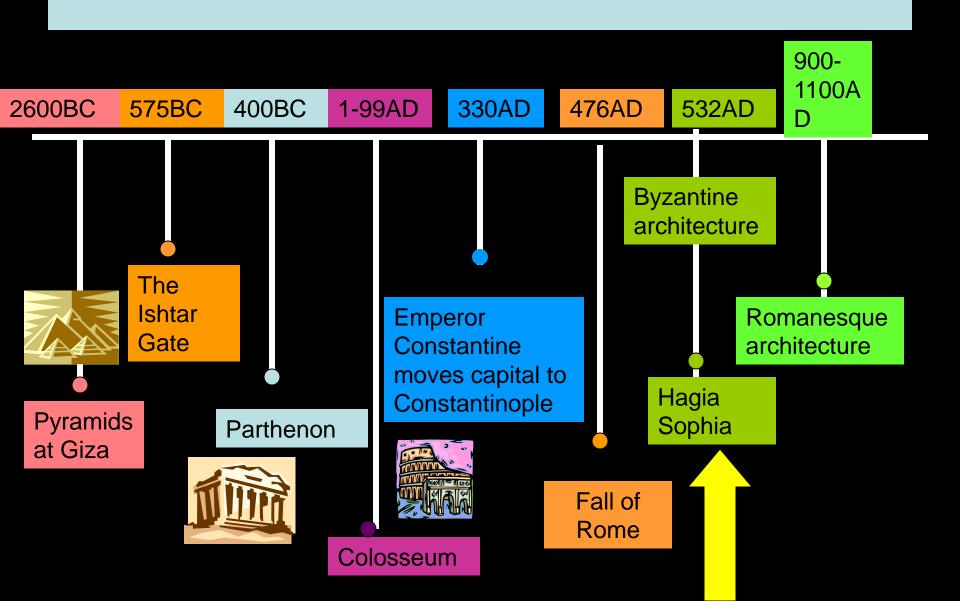
Roman Aqueduct,
Segovia, Spain

Inside the aqueduct

The Roman Aqueducts

- sophisticated system used to carry water from outlying areas to cities
- Most aqueducts were underground
- Some were above ground and were supported by arcades (arches)

Ancient Architecture Timeline



Over time, the Roman Empire was divided into 2 parts: West and East



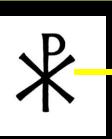
<u></u>

- Western part spoke Latin
- Not as wealthy as the East
- Capital located in Rome & other Italian cities

- Eastern part spoke Greek
- Byzantine architecture

Constantine, a pagan, had a vision of a Chi-Rho in the sky shortly before he entered a battle with Emperor Maxentius to gain control of the Roman Empire.

"In this sign, you will conquer" is what Constantine said Jesus told him in a dream.



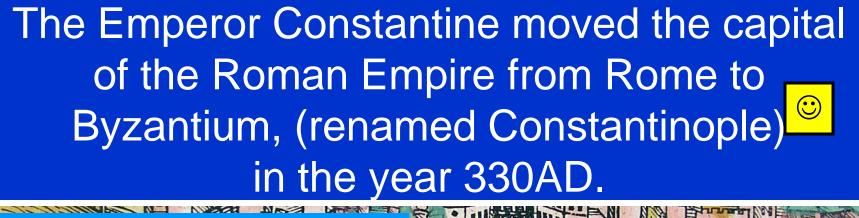
Chi-Rho: Christian symbol with 1st 2 Greek letters of word, Christ



After he won the battle, Emperor Constantine became a Christian.

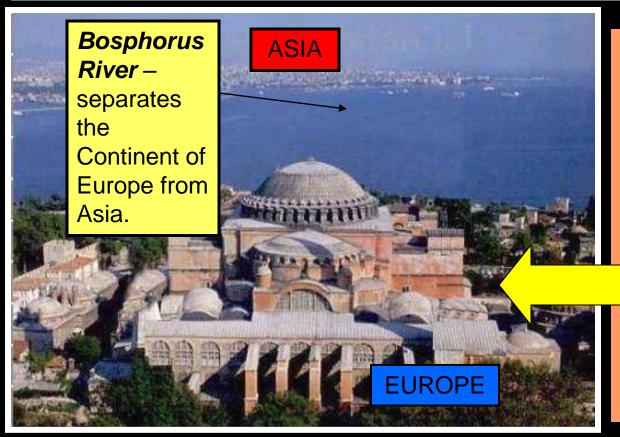


Constantine the Great
Peter Paul Rubens





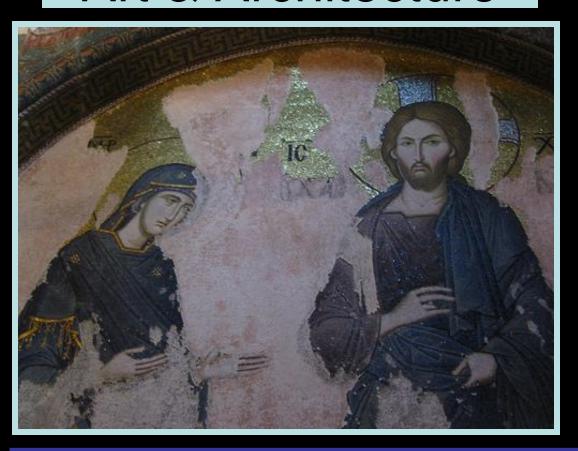
In Constantinople, the *Hagia Sophia*, built in 532-537AD, was the finest example of Byzantine architecture and remained the world's largest Christian church for a thousand years.



Hagia Sophia, as it would have appeared in the time of Emperor Constantine. This example of Byzantine architecture was built in only 5 years.

- Mosaics instead of carvings
- Multiple domes
- The name,
 Hagia
 Sophia,
 means
 "Wisdom of God"

Byzantine Art & Architecture

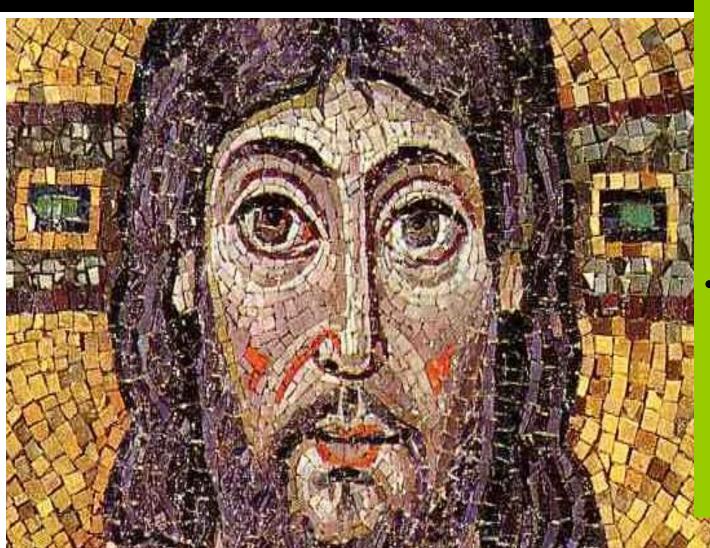


Mosaics in Chora Church,

Istanbul, Turkey

Byzantine Mosaics

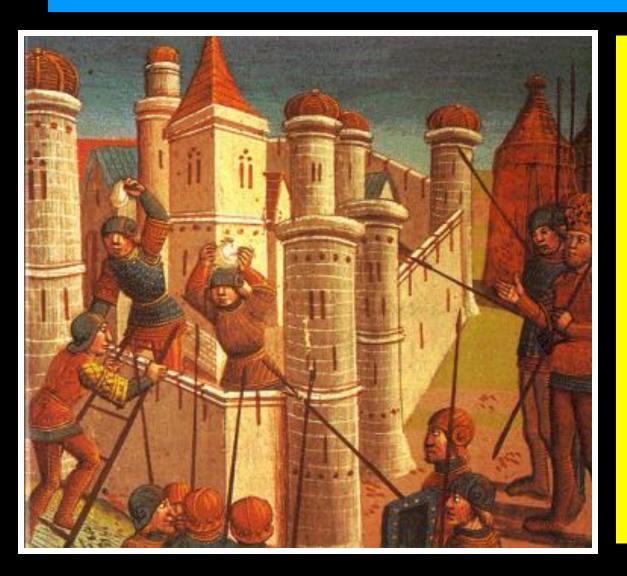




- Mosaics
 are
 pictures
 made up
 of small
 pieces of
 colored
 stone or
 glass
- Ravenna,
 Italy known for
 its
 Byzantine
 mosaics



The Fall of Constantinople - 1453



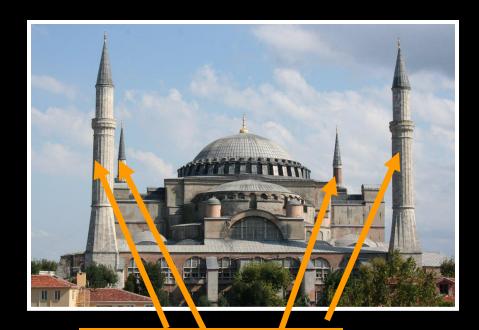
50,000 Islamic troops of the Ottoman Empire battled 8,500 Byzantine Christians, When the Ottoman leader, Sultan Mehmed II, entered the city, he prayed at Hagia Sophia, then ordered it be converted to an Islamic mosque.



After Constantinople was conquered by the Muslims...

- the bells, altar and iconostasis were removed
- the Christian mosaics were plastered over
- the minarets were added
- The name of Constantinople was changed to Istanbul

Hagia Sophia was converted to an Islamic mosque



Minarets added by the Muslims

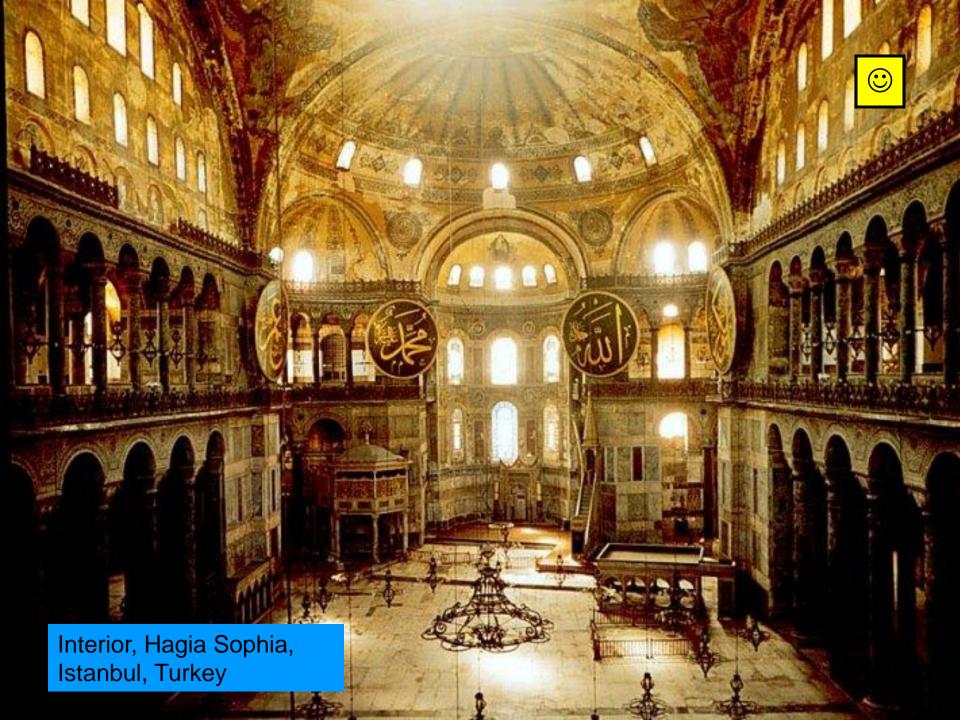




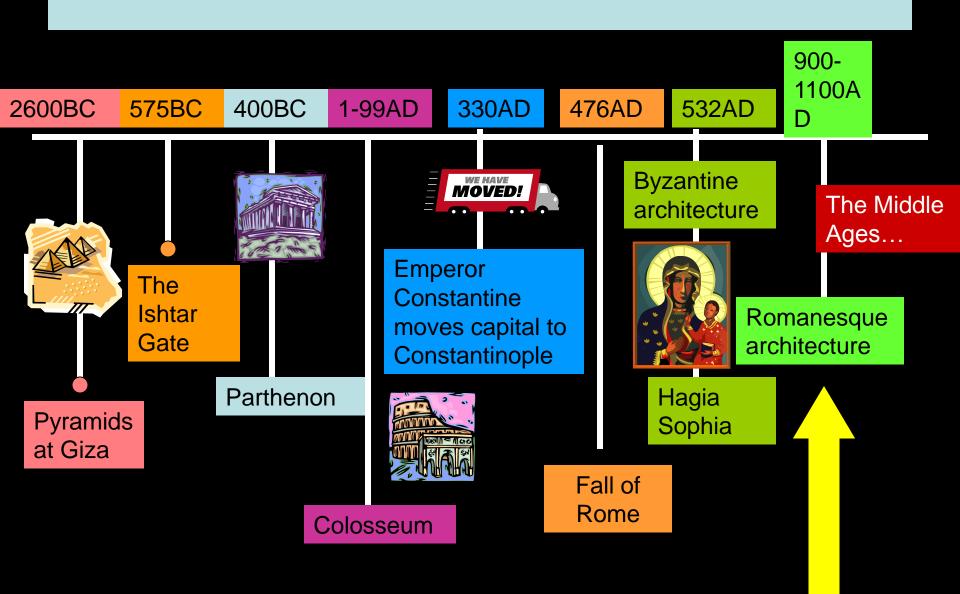
Largest Christian church in the world for nearly 1,000 years

In 1453, Constantinople was captured by the Ottoman Turks and Sultan Mehmed II ordered the church to be converted to a mosque

Muslims removed the bells, the iconostasis, and the altar, and added plywood panels with Arabic verses.



Ancient Architecture Timeline

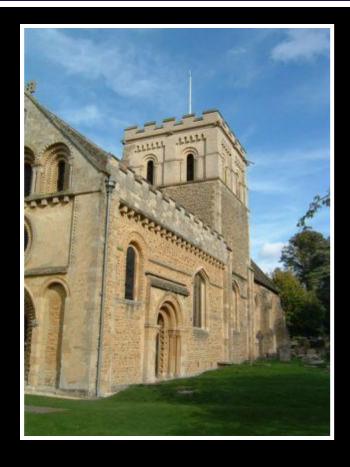


 Romanesque means "descended from Roman"



- Romanesque architecture in England is called "Norman" architecture
- Architecture of medieval Europe (10th-12th centuries)
- Rounded arches
- Evolved into Gothic architecture in the 12th century

Features of Romanesque Architecture

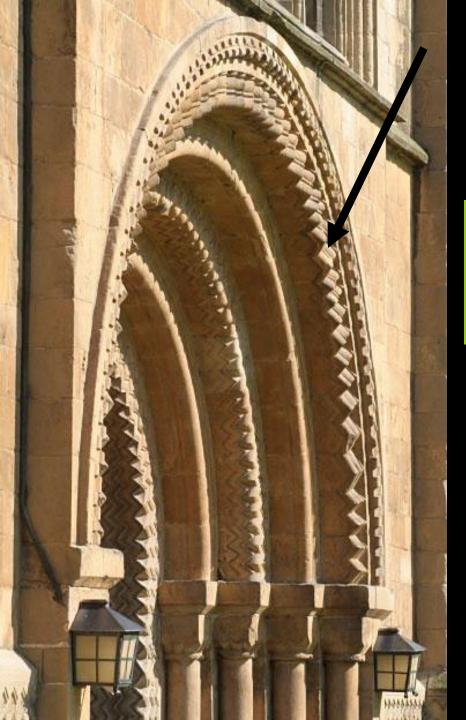


Romanesque Architecture





- Thick walls
- Rounded arches
- Lombard band
- Barrel vaults
- Pointed arch or ribbed vault



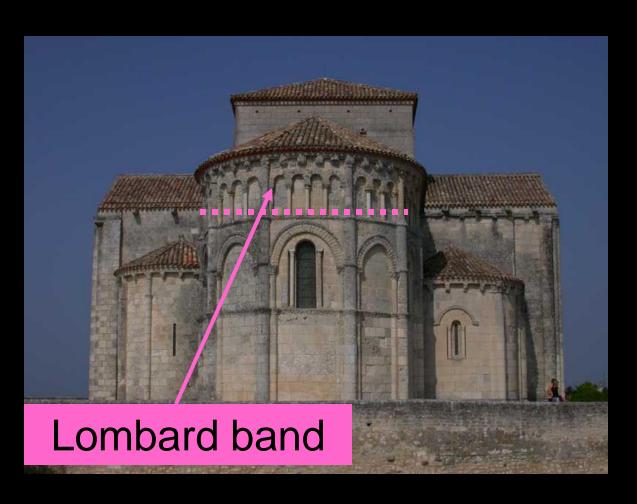
Chevron moulding

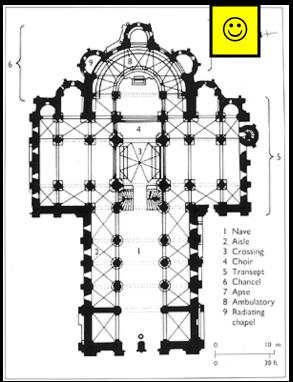


A zig-zag moulding used in Romanesque (Norman) architecture



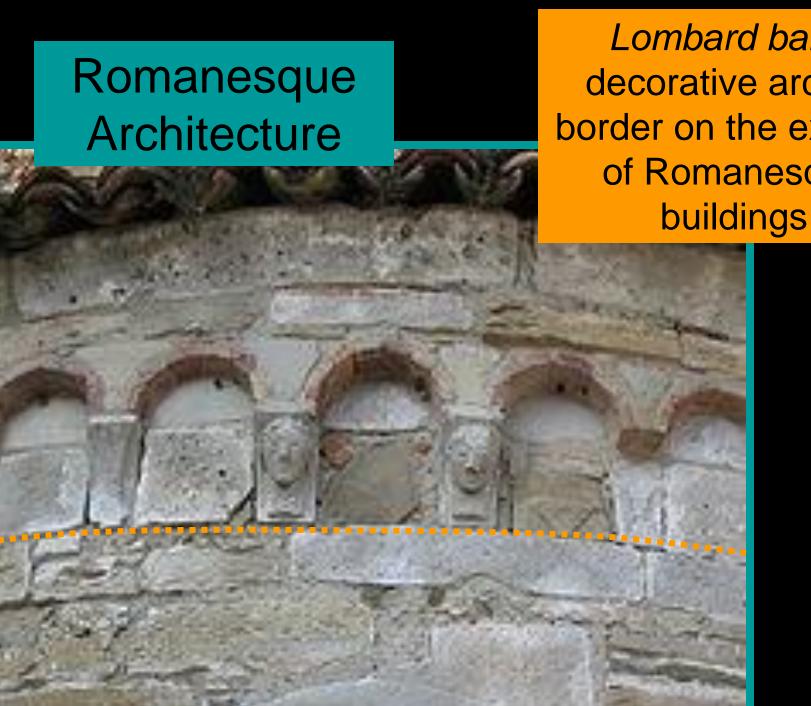
Romanesque architecture





Romanesque church floorplan

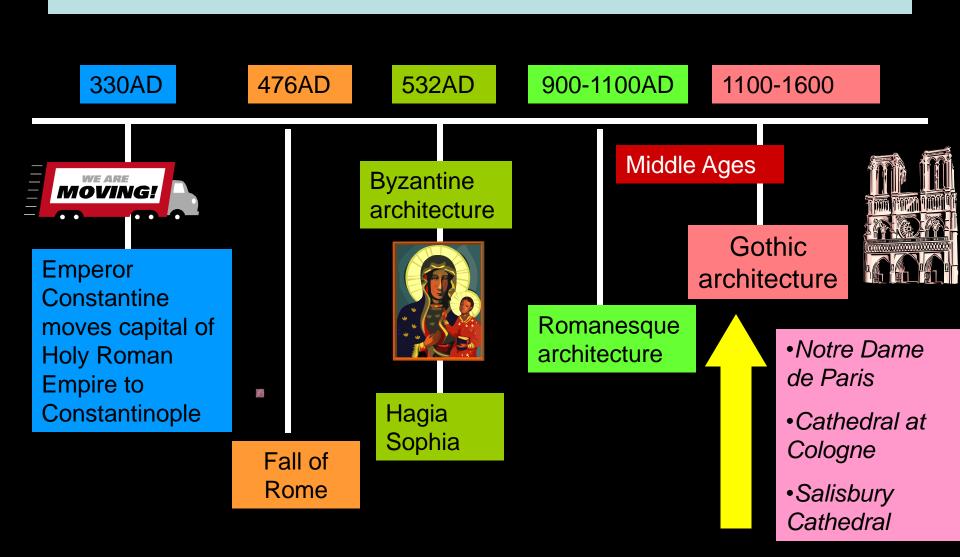
– simple compared to Gothic churches



Lombard band: decorative arched border on the exterior of Romanesque



Architecture Timeline



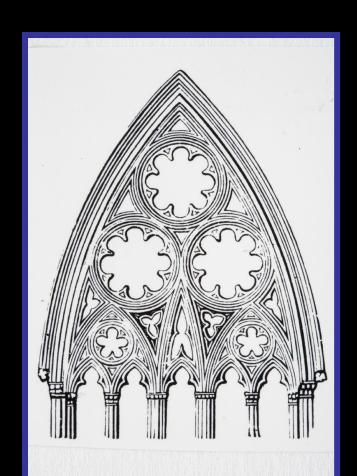
- Rounded arches
 (Romanesque)
 replaced with pointed
 arches (Gothic)
- Towns competed to create tallest churches
- Some churches collapsed, killing many
- Stained glass windows weakened walls
- Flying buttresses were added to support very high walls

Gothic © Architecture



Flying buttresses

The Gothic Window







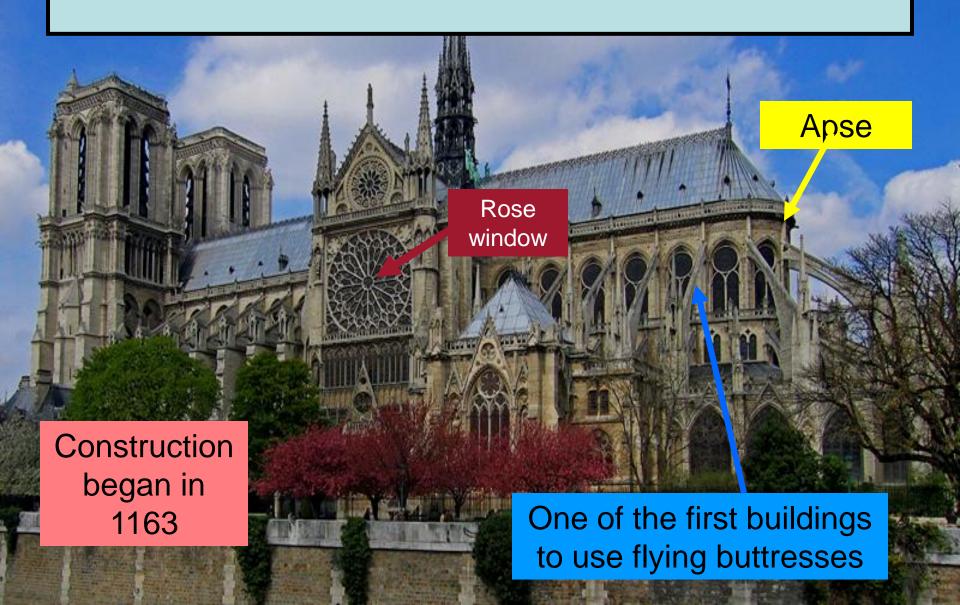


Pointed arch



Notre Dame de Paris







Salisbury Cathedral



Gothic cathedral with tallest spire in England

Unique church because unlike most Gothic churches of its day, it was built to completion in one generation, (1220-1258) – without additions

Cathedral at Cologne, Germany

- Another example of Gothic architecture
- Foundation for the church was laid in the 1240's
- Church wasn't complete until over 600 years later

