

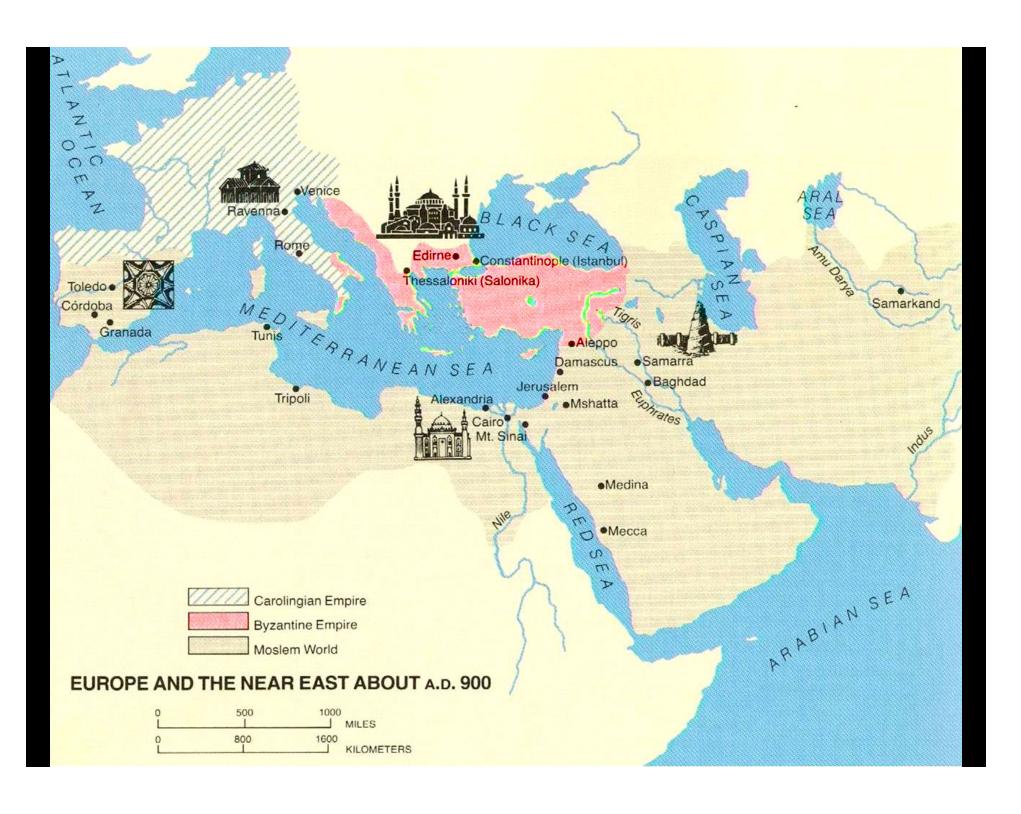
ARCH 1121 - HISTORY OF WORLD ARCHITECTURE TO 1900 Early Christian & Byzantine

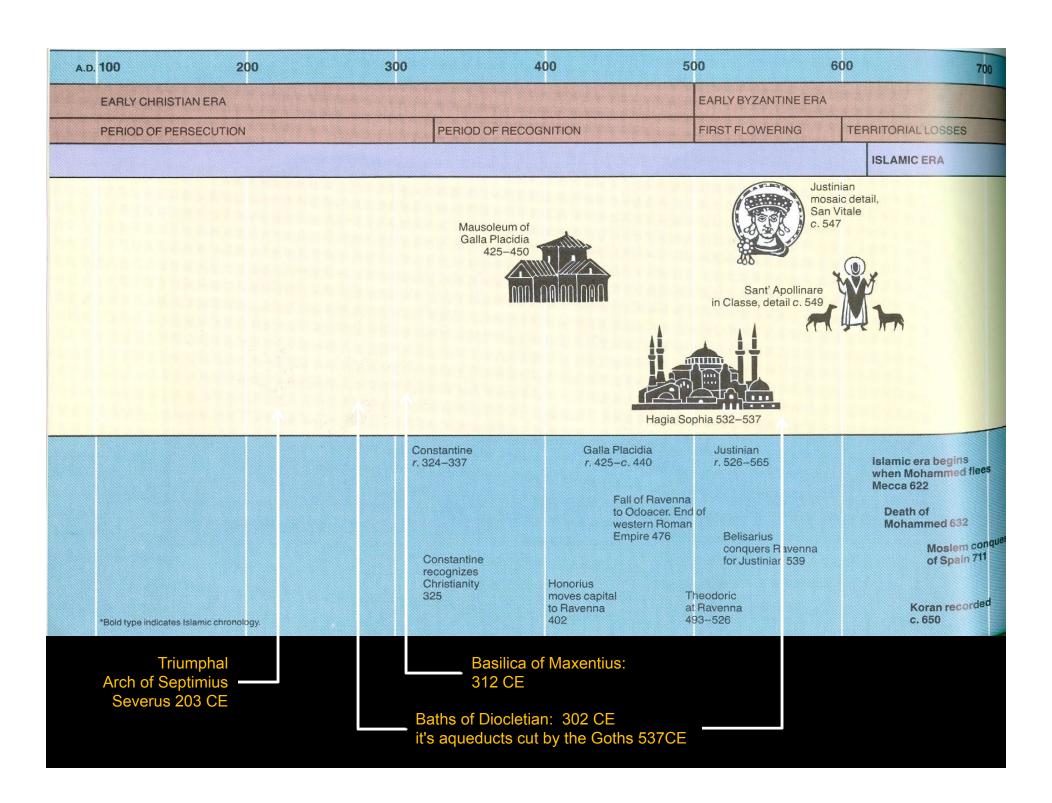
Professor: Shelley E Smith, PhD

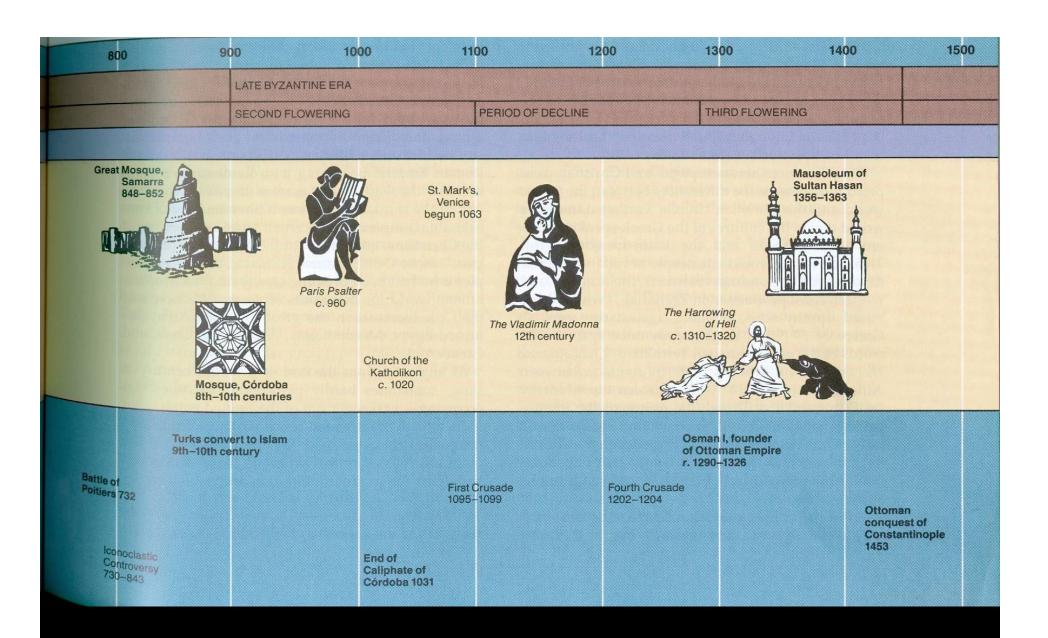
email: <u>ssmith@citytech.cuny.edu</u>

Course Overview:

- What is architecture? What is history?
- Prehistoric, Mesopotamia, Egypt
- Early Aegean, Greece
- India & Southeast Asia, China & Japan
- Rome, Early Christian & Byzantine, Islamic
- Early Medieval, Romanesque, Gothic
- The Pre-Columbian Americas, Africa
- The Renaissance, Baroque, Rococo in Europe
- 18th Century & Neo-Classicism in Europe & America







Early Christian Architecture: from late Roman period to the rise of the great monasteries and Gothic cathedrals

Middle Ages 500 – 1420 CE

500-800 CE - "Dark Ages" many invasions and warfare

313 CE - Emperor Constantine adopted Christianity

324 CE Capital moved to Constantinople, formerly Byzantium (modern Istanbul, Turkey)



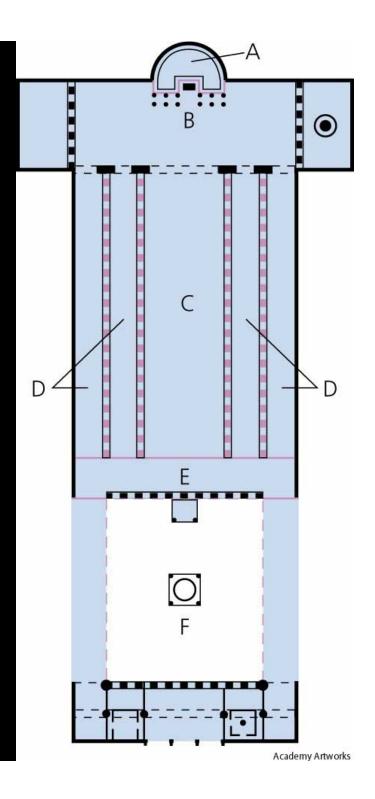
Early Christian Churches

- I. Basilica plan
- II. Central plan

I. Basilica:

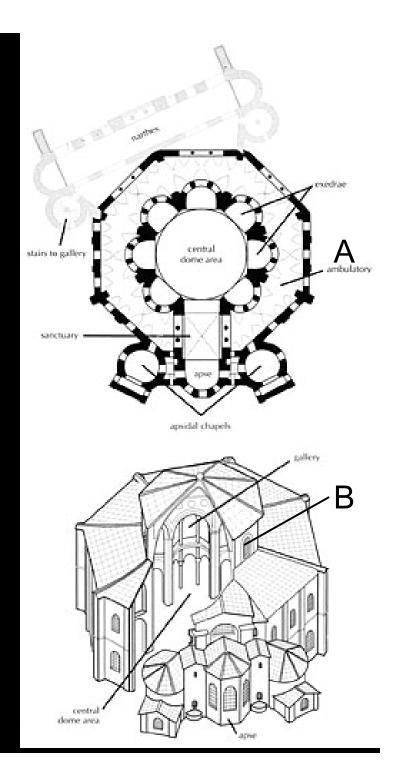
A Christian church building having central nave with a semicircular apse at one or both ends and two side aisles formed by rows of columns, a narthex, and a clerestory.

- A. Apse semicircular termination
- B. Transept projecting arm
- C. Nave central space
- D. Aisles
- E. Narthex vestibule
- F. Atrium courtyard



Early Christian Churches

- II. Circular or Octagonal: A center space covered by a dome, surrounded by an ambulatory with clerestory lighting.
 - A. Ambulatory continuous aisle
 - B. Clerestory windows



Church Buildings

East preferred the Circular or Octagonal: more mystical with a pure form – the circle and dome; also see the Greek cross plan with four equal arms, which could be inscribed in a square.

West preferred the Basilica, as they focused more on congregational worship, cruciform shape symbolizing the cross, with a longer central axis.

Martyria – memorials for Christian saints

<u>Baptisteries</u> – frequently octagonal, 8 sides symbolized the resurrection of Jesus on the 8th day

<u>Mausolea</u> – contain tombs of important people

Byzantine 330 – 1453 CE (AD)

Mostly Churches

Plan – Cross in a square capped with domes

Support - Pendentives and piers

Décor – Lavish inside (mosaics), plain outside

Effect – Mysterious

Inspiration – Heavens

Goal – arouse emotion and transport

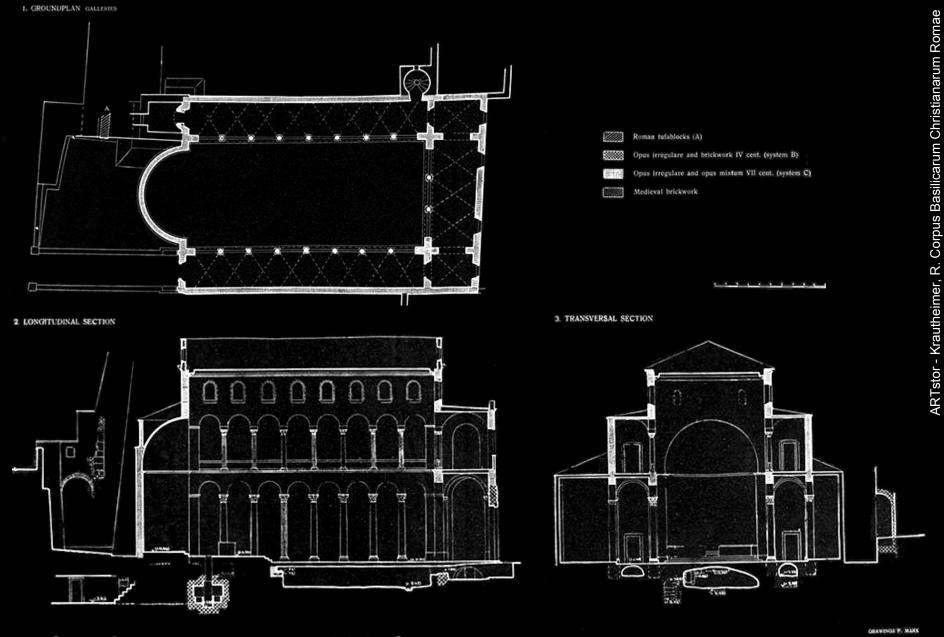
Rome

Christianity starts early with followers in 1st Century





Sant' Agnese Fuori 630 CE (AD) Basilica with columns supporting arches along the aisles



Sant' Agnese Fuori 630 CE (AD) Basilica with columns supporting arches along the aisles

Rome





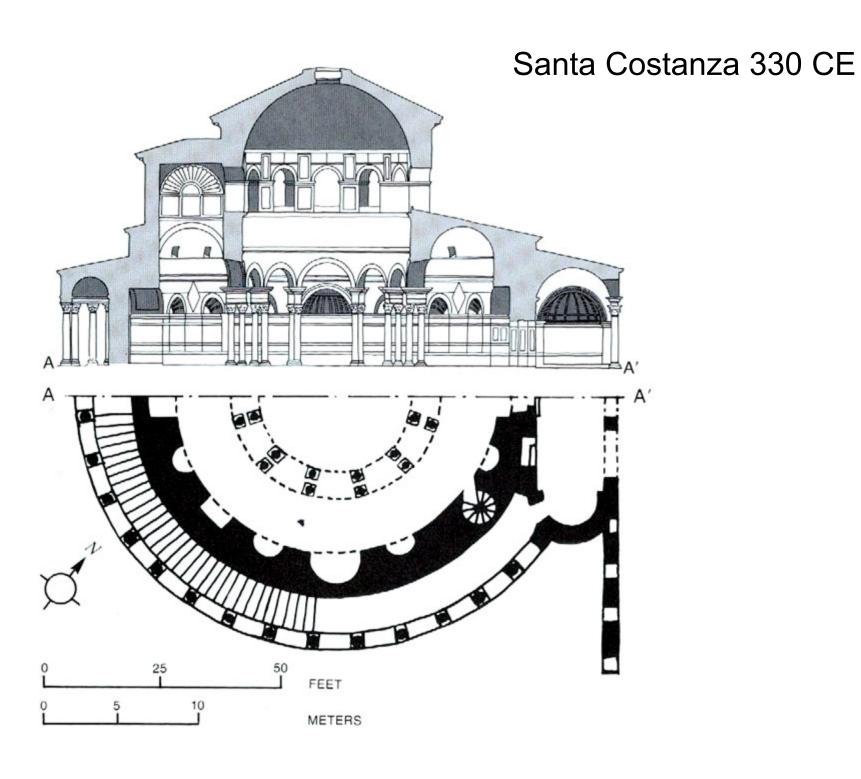
Santo Stefano Rotondo: 468 CE (AD), diameter is 210', huge nave encircled by ionic columns, 22 clerestory windows

Rome

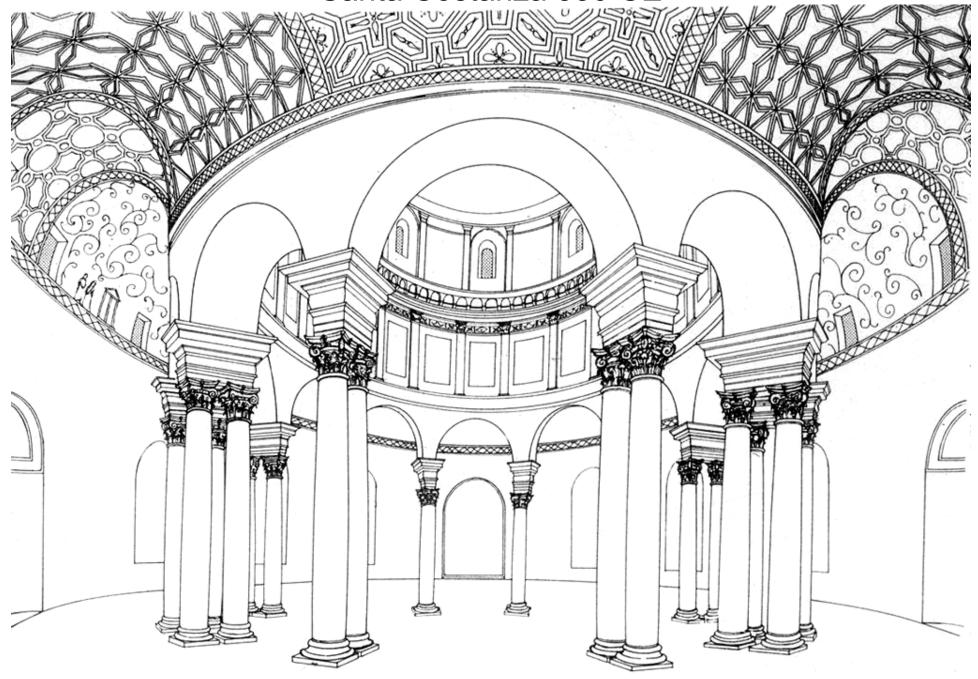




Santa Costanza 330 CE, Circular church, domed brick roof, tomb for Constantine's daughter



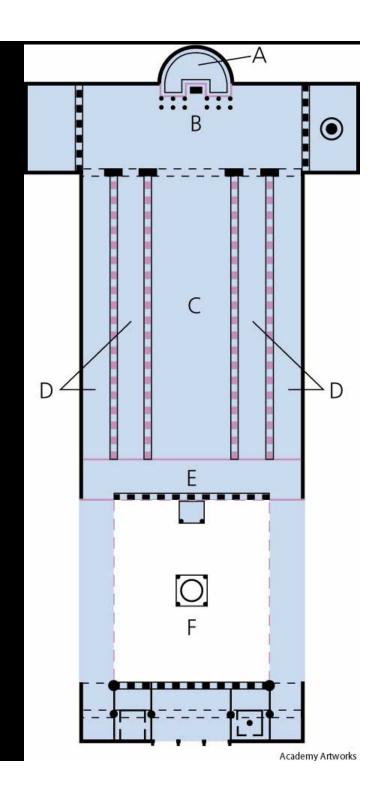
Santa Costanza 330 CE

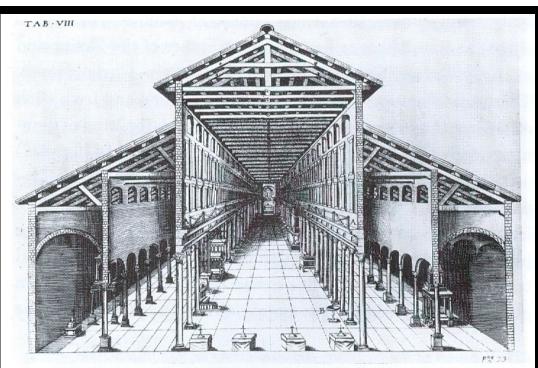


Rome



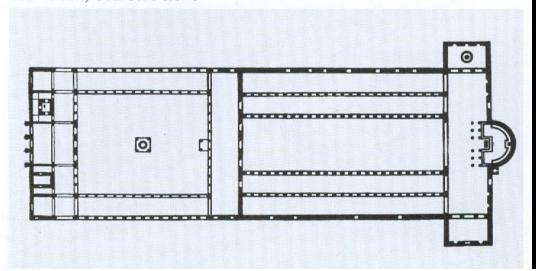
Old St. Peters 326CE – 200' long nave, timber roof, rows of closely spaced columns

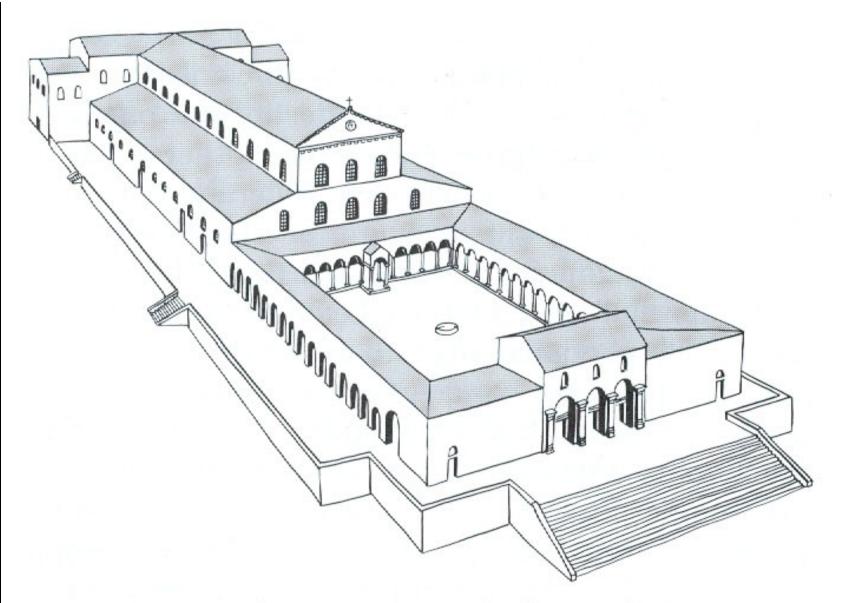




225 Old St. Peter's. Rome. Begun c. 333. (Drawing by J. Ciampini, 1693)

226 Plan, Old St. Peter's





7-6 Conjectural reconstruction of Old St. Peter's, Rome. (After K. J. Conant.)

Last years of the Roman Empire

395 CE Roman Empire Divided

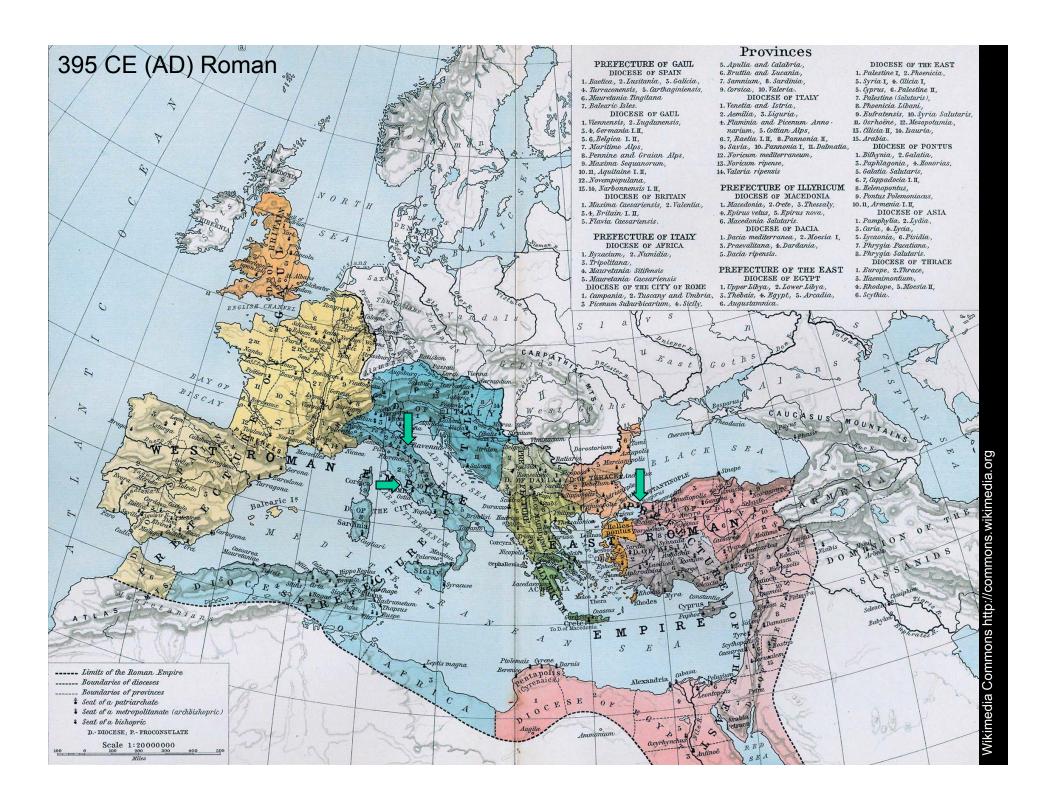
East in Constantinople, West in Rome

Rome under attack and malaria

402 CE (AD) Moved capital to Ravenna

476 CE (AD) Western Roman Empire fell to the Ostrogoth

493-553 Ostrogothic Kingdom



Hagia Sophia 532-37 CE (AD). Istanbul, Turkey

Architects: Isidore of Miletus and Anthemius of Tralles

Almost Square – walls broken by aisles

Breathtaking use of light, entering through a wreath of window around the dome

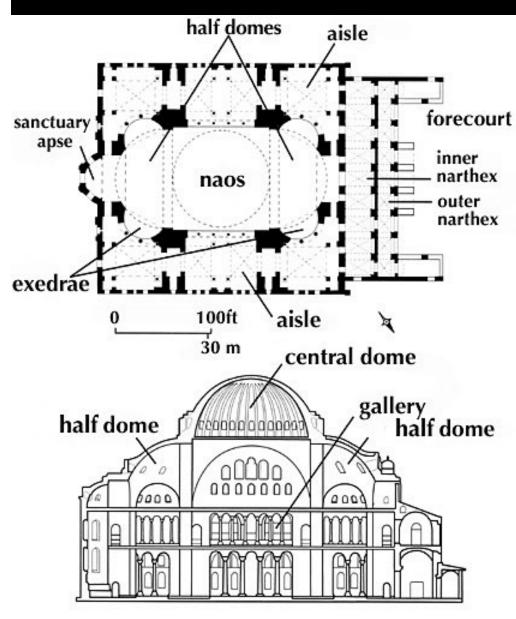
Converted to a Mosque in 1453 CE

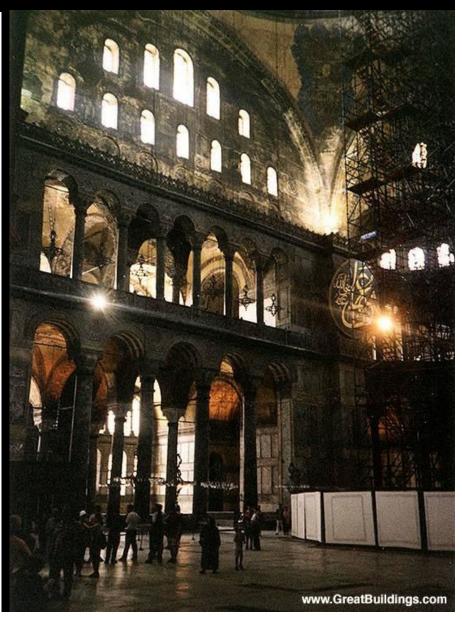
Soaring height 182'

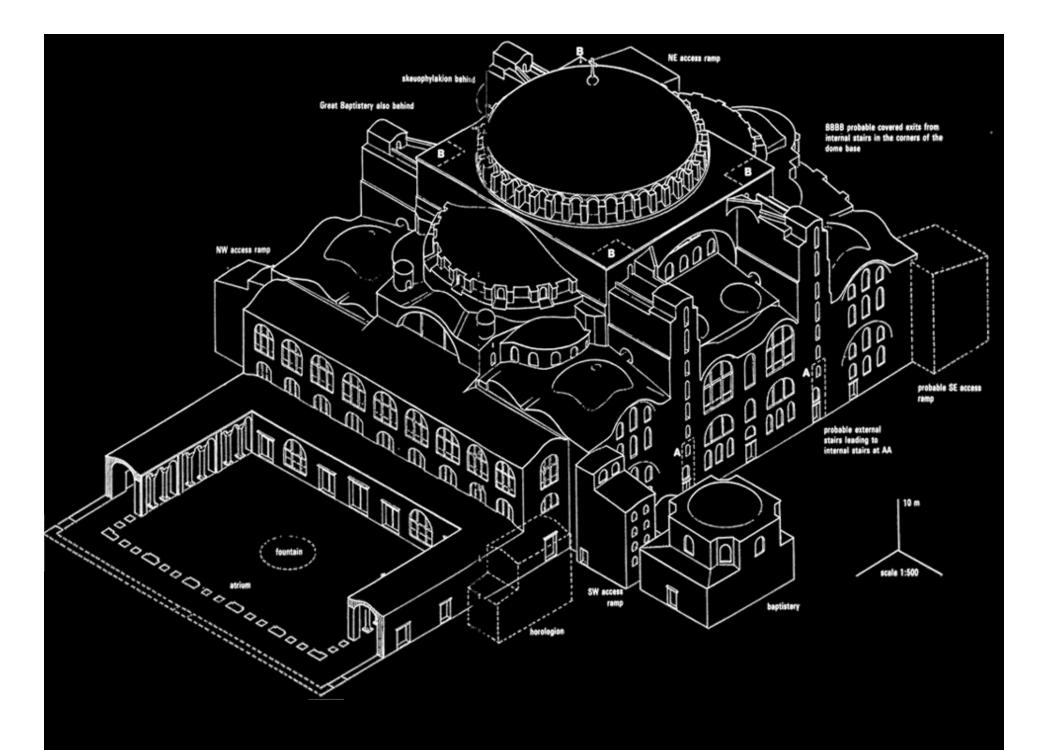
Diameter of 102'

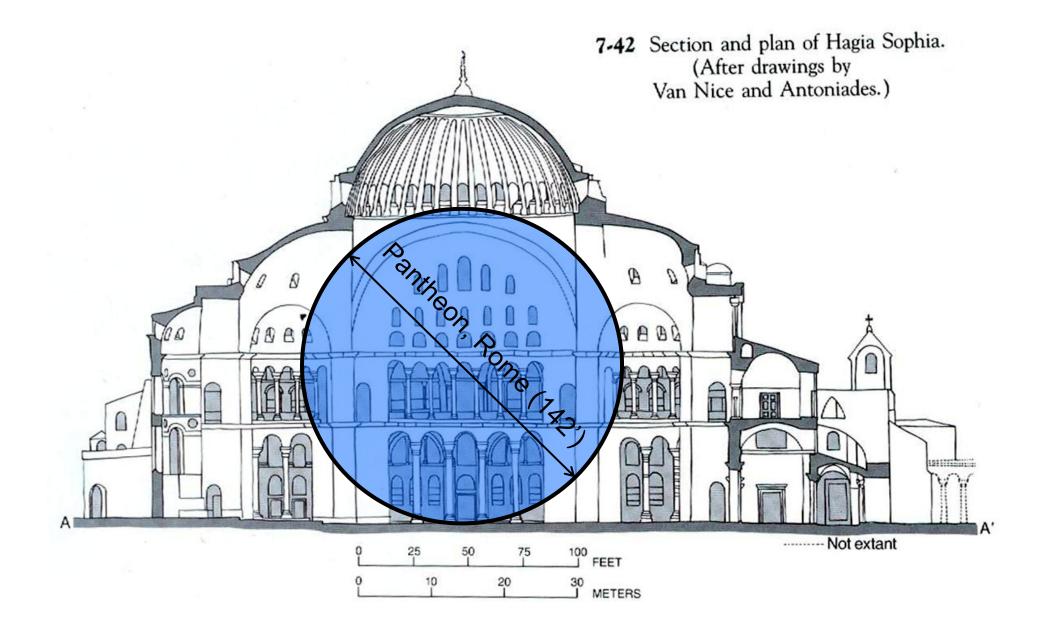


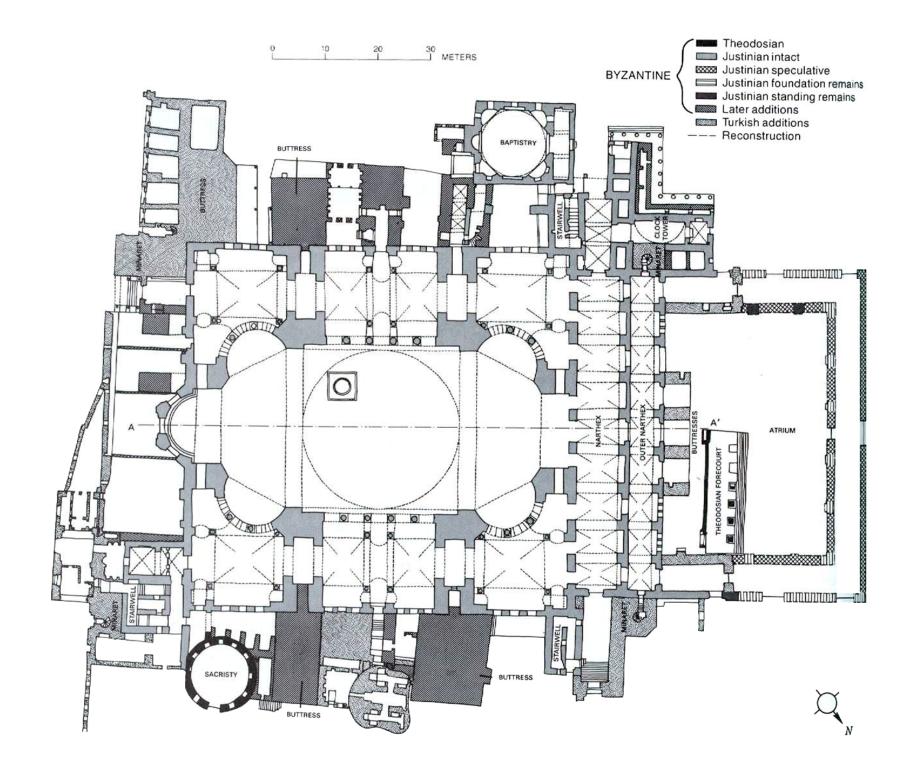
Hagia Sophia 532-37 CE (AD), Istanbul, Turkey



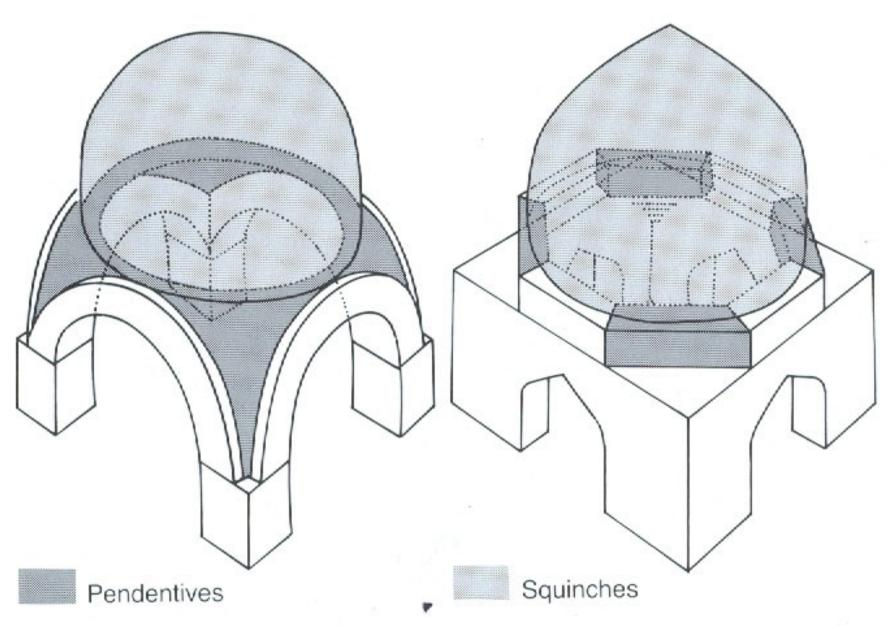








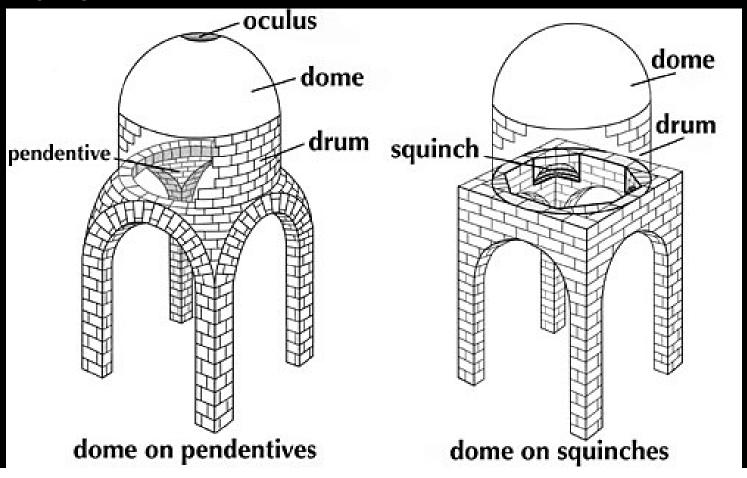
b ARTstor – Image and original data provided by Bryn Mawr College Mainstone, R. J. Hagia Sophia : architecture, structure, liturgy of Justinian's Great Church (London, 1988); p. 167, fig. 192 E S S



7-45 Domes on pendentives (left) and squinches (right).

Pendentives

Solved the problem of placing a dome over a square base – squinches were awkward. Previously domes had rested on circular buildings, ie. the Pantheon in Rome.



Hagia Sophia 532-37 CE (AD), Istanbul, Turkey

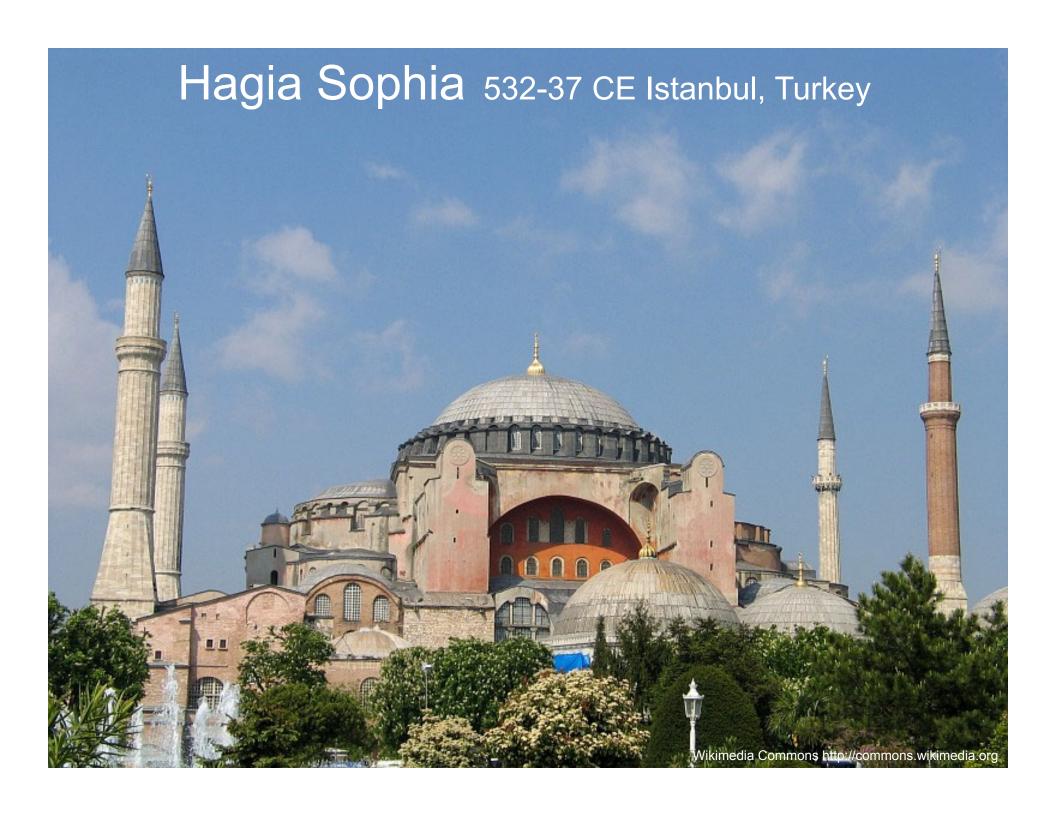
Commissioned by the Emperor Justinian, means Divine Wisdom

Shallow dome supported by four pendentive vaults that rise from the four lofty arches that define the space below

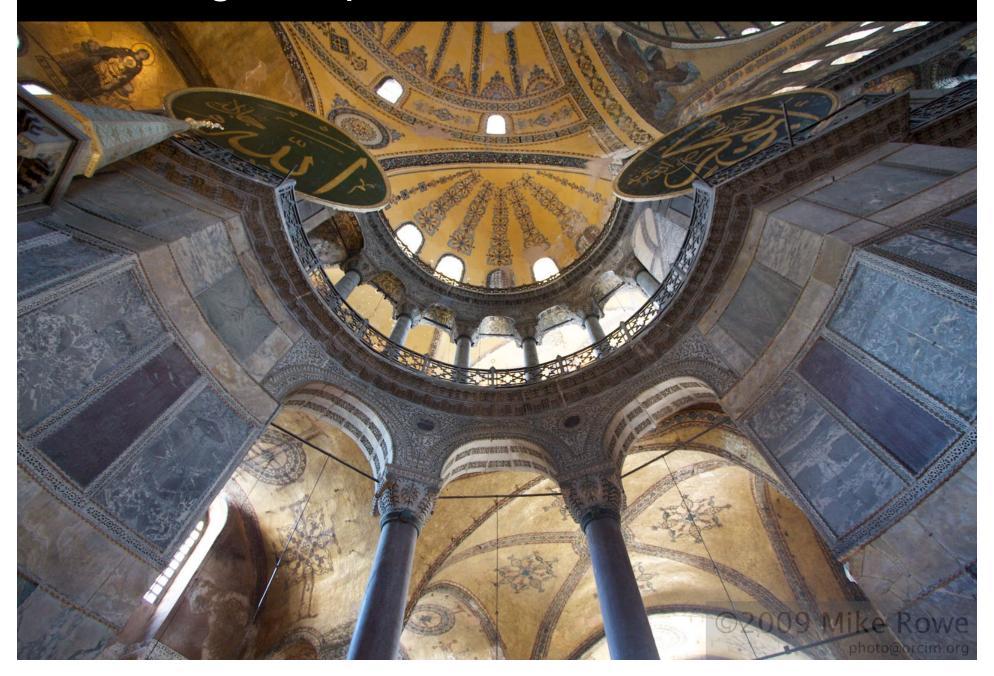
Design allowed vast place for congregating, free from walls and columns

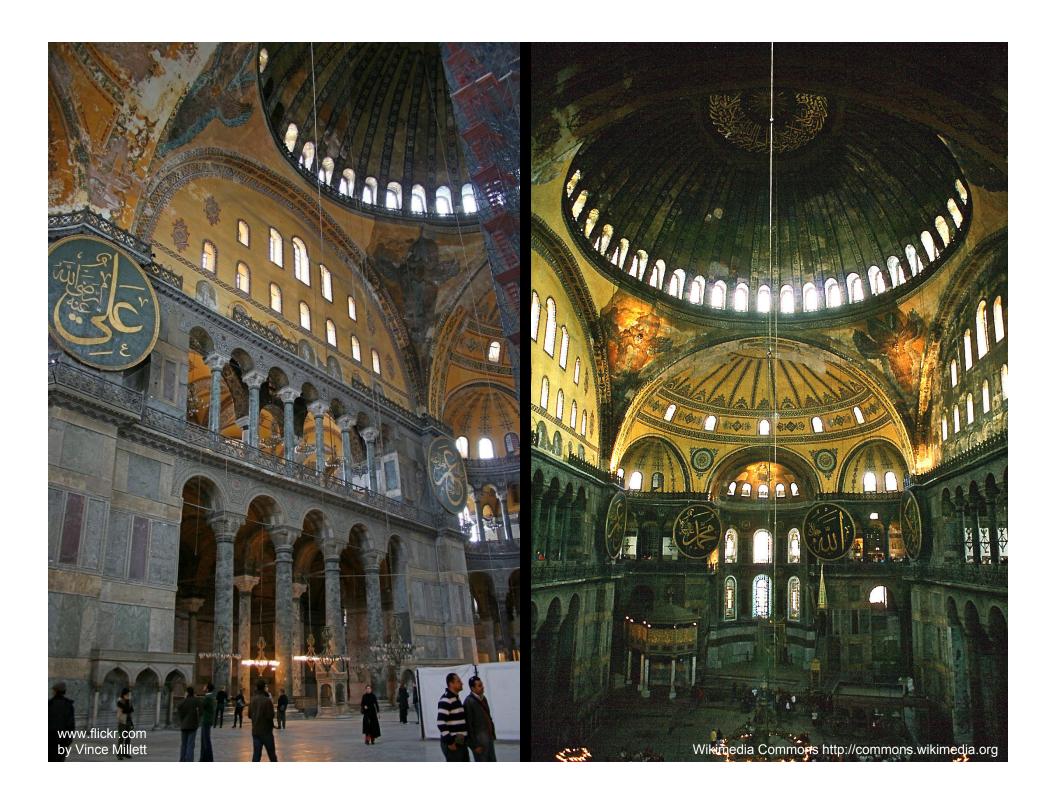
A break with classicism of Rome: column capitals decorated with serpentine foliage, reflecting the more sensual and organic architecture of the East.

One of the most influential buildings in history, because of the soaring space and stunning play of natural light.



Hagia Sophia 532-37 CE Istanbul, Turkey

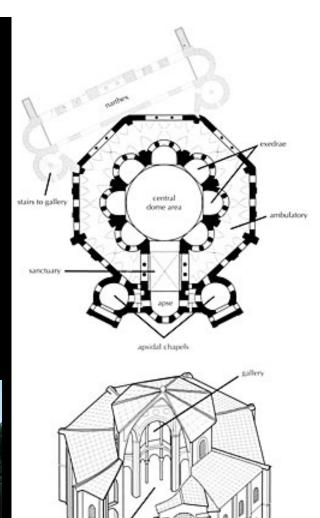




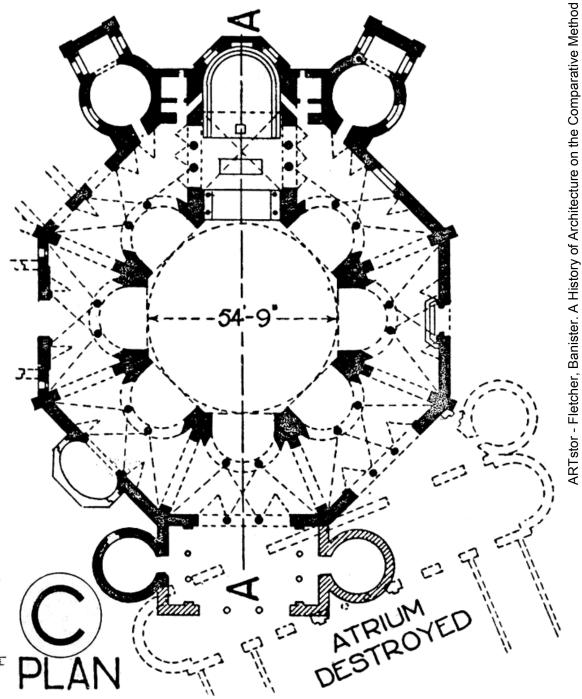
Ravenna City of Mosaics

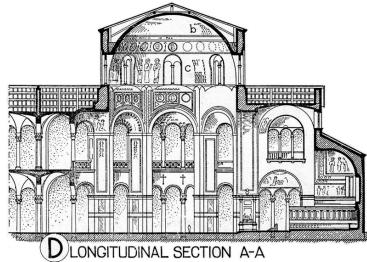




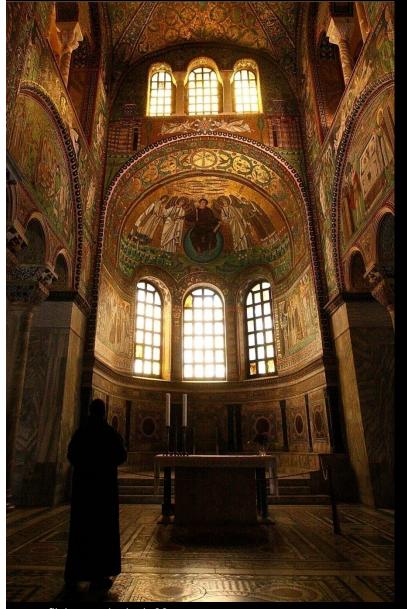


San Vitale 526-547 CE. Two concentric octagons domes made of clay pots fitted into one another, covered w/timber roof and tiled



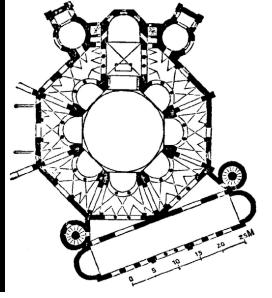


San Vitale 526-547 CE



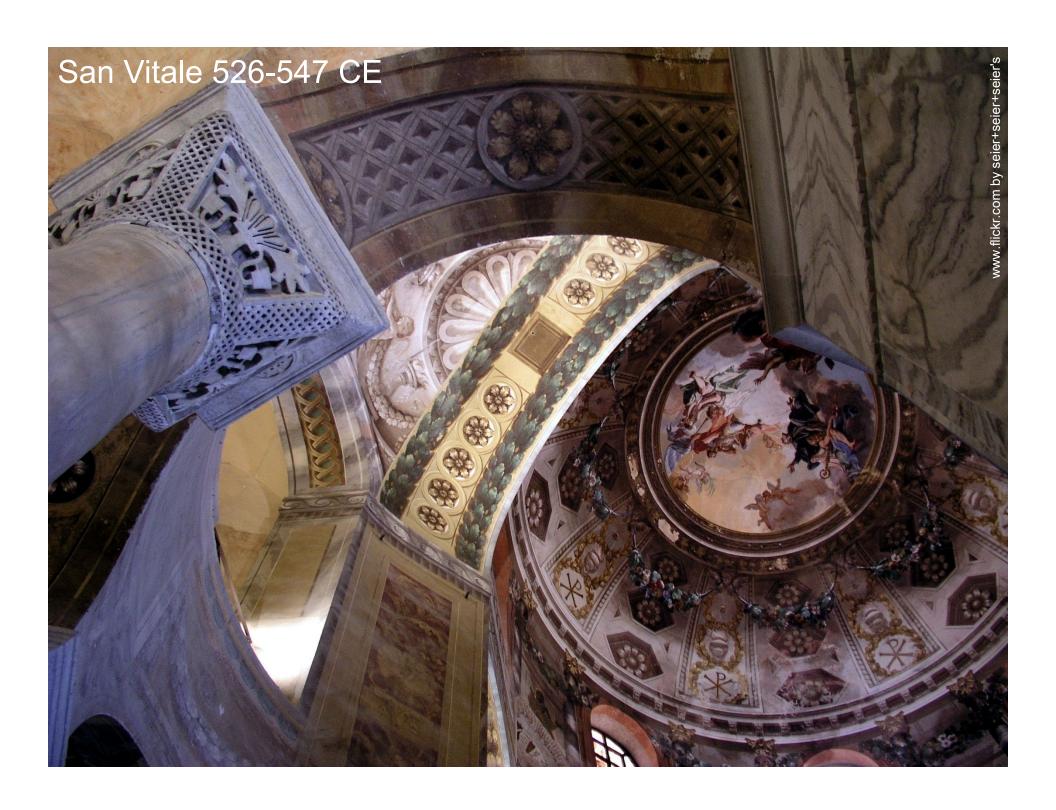






www.flickr.com by Isala66





Venice, Italy

5th Century founded on a Lagoon cut off from Mainland Escaping Barbarians



St. Marks Square Venice, 1063-1073 CE (AD)

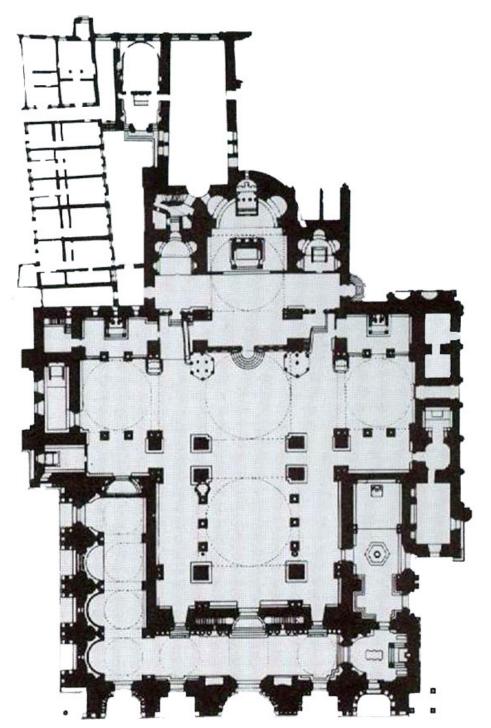
Venice, Italy

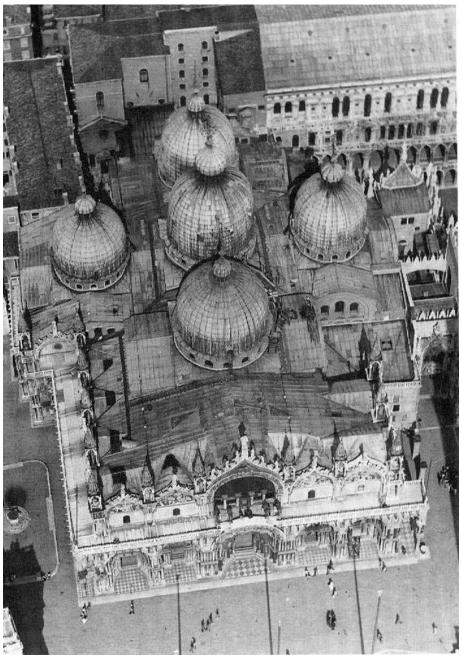


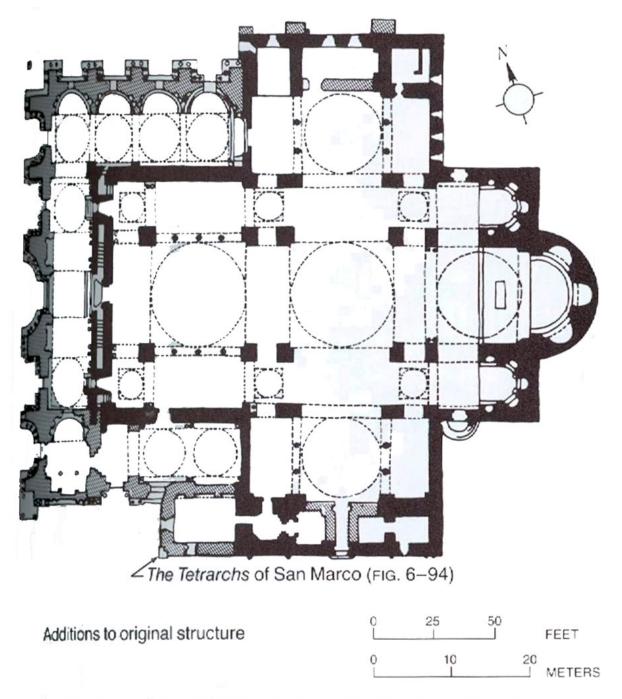


St. Marks Square Venice 1063-73 CE
Looks East rather than West for influences
Almost 100' central dome 42' in diameter
Mosaics from different periods
5 deep recessed west portals lead into the Narthex



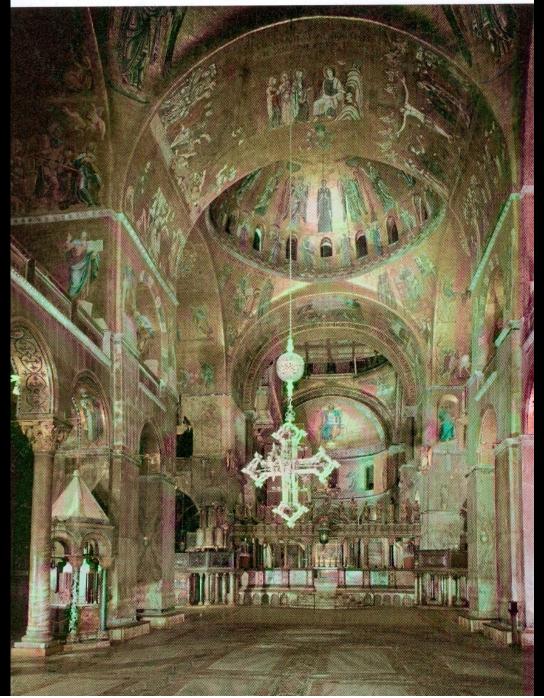


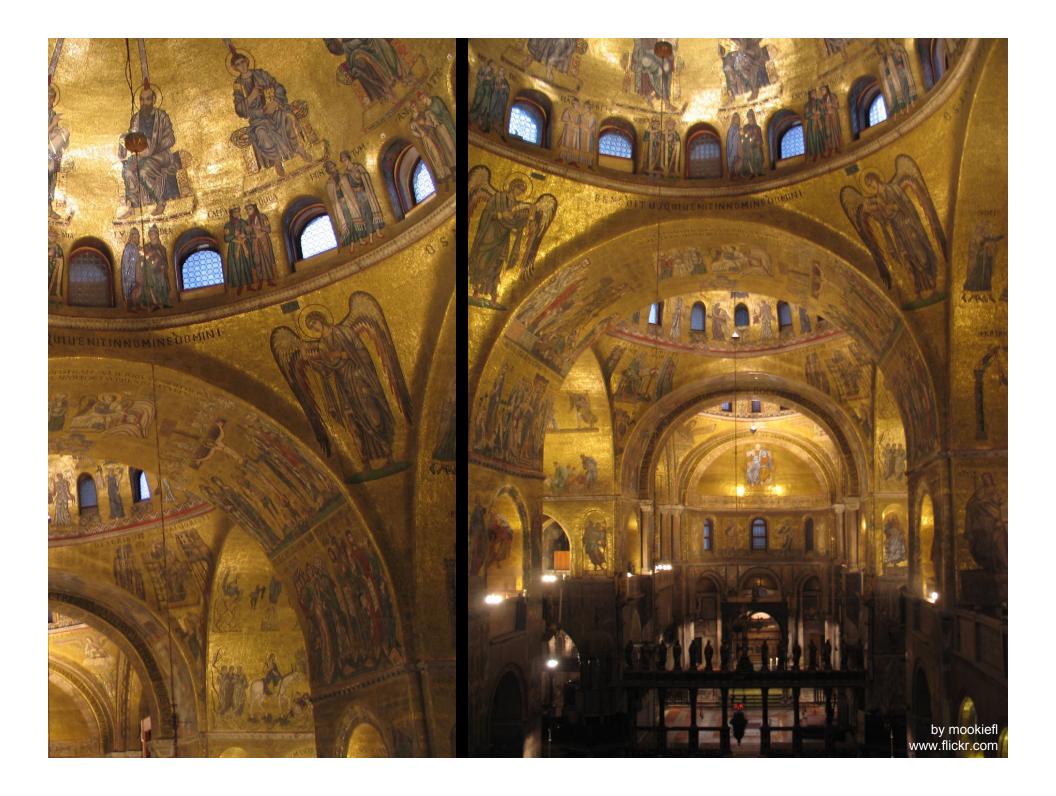




7-48 Plan of St. Mark's. (After Sir Banister Fletcher.)

7-49 Interior of St. Mark's (view facing east).





S. Marco, Venice, 1063-89 CE

- Looks East rather than West for influences, reflecting Venice's extensive trade patterns with the East
- Greek cross plan and 5 domes each resting on four piers
- 5 deeply recessed west portals lead into the Narthex
- Mosaics from different periods



Greece

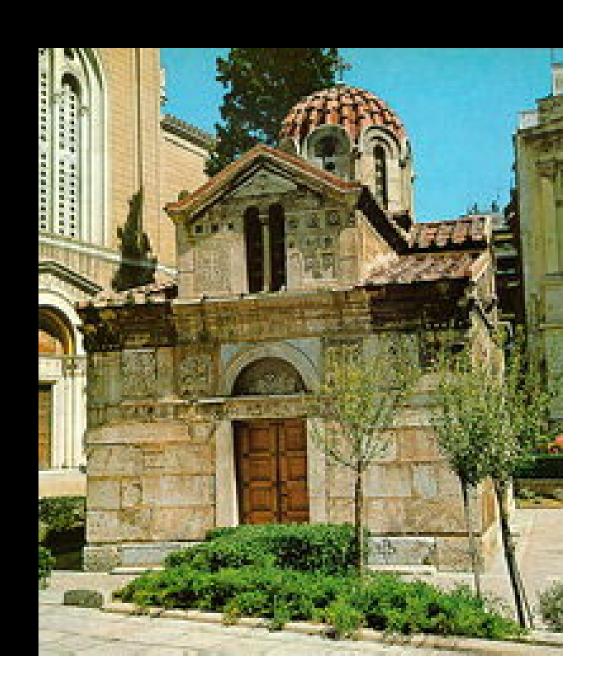
Little Metropolis Church 13 th century

Athens Greece

38' x 25'

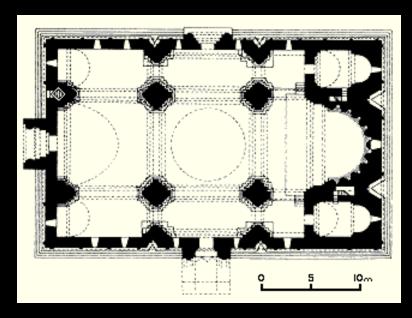
Smallest Cathedral

Antique marble reliefs



Armenia High Plateau east of Euphrates

1st to adopt Christianity as state religion 301 CE





Cathedral of Ani 989-1001 CE

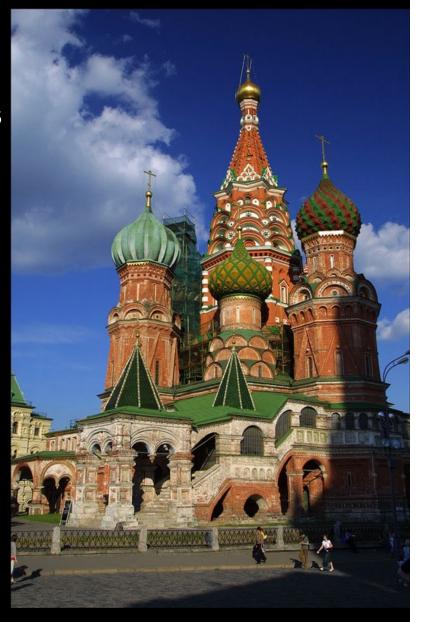
Trdat was the Architect – no European Influence Covered Domes with conical caps Walls with reliefs, pointed arches, clustered piers Almost a century before we see this in the West

Russia

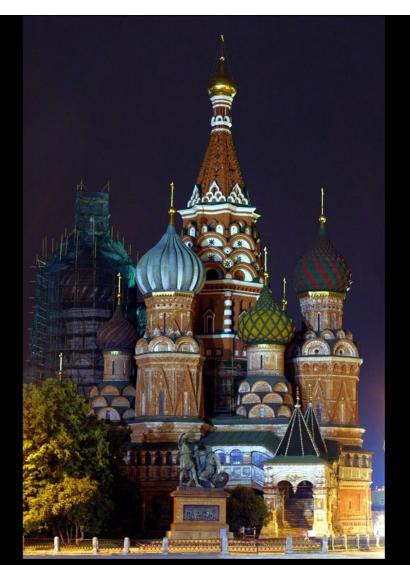
988 EC, Adopted Christianity
Borrowed arch from Constantinople
Shallow Dome failed with snow loads
Thus – the Russian Onion Dome

St. Basil's Red Square,

Moscow 1550-60 CE Commissioned by Ivan the Terrible



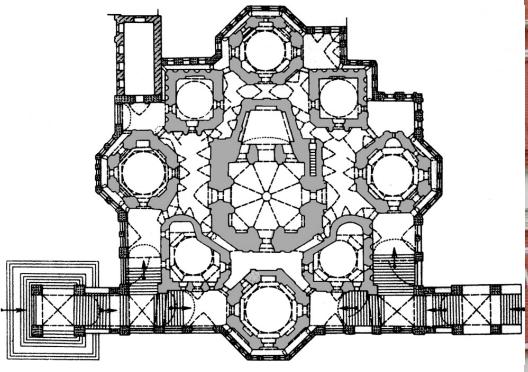
Russia





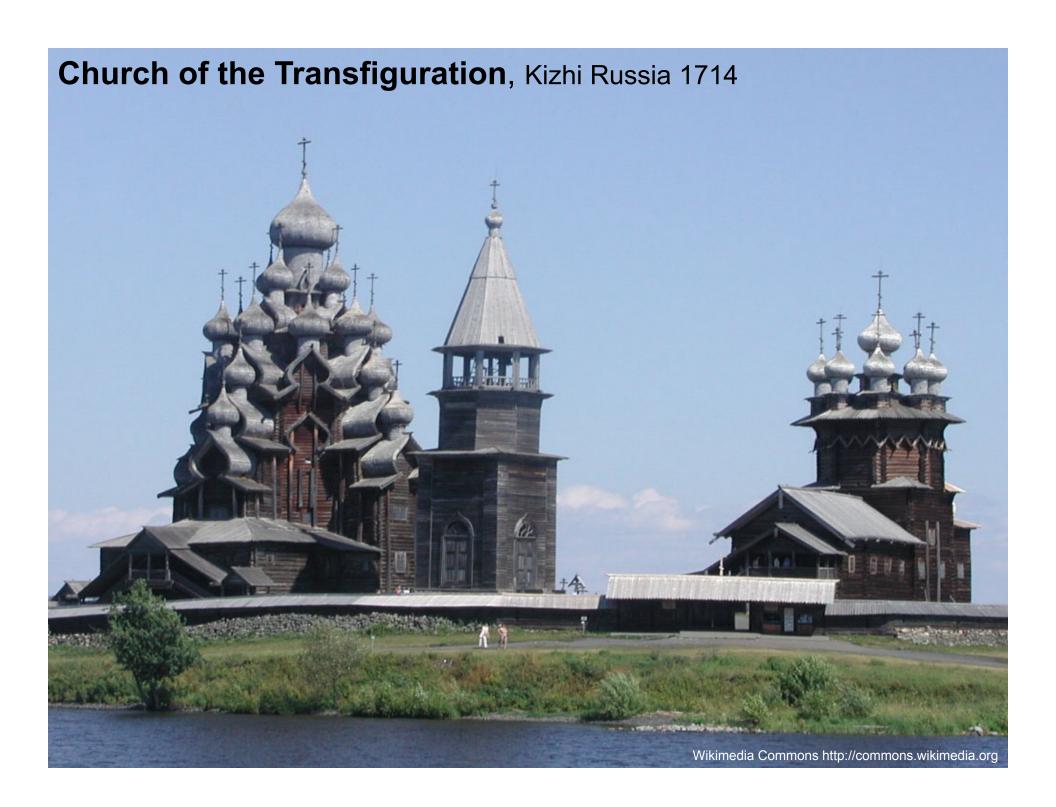
St. Basil's Red Square, Moscow 1550-60 CE Commissioned by Ivan the Terrible 8 small churches clustered around one main church Originally white, but was painted in the 17th century

St. Basil's 1550-60 CE (AD)

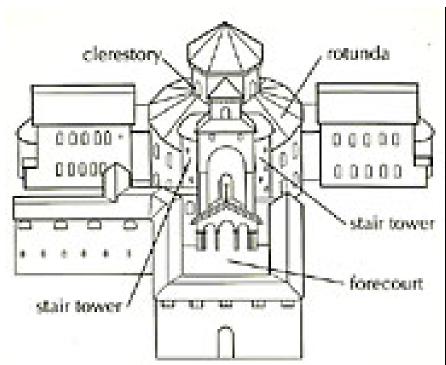


Plan is basically a greek cross





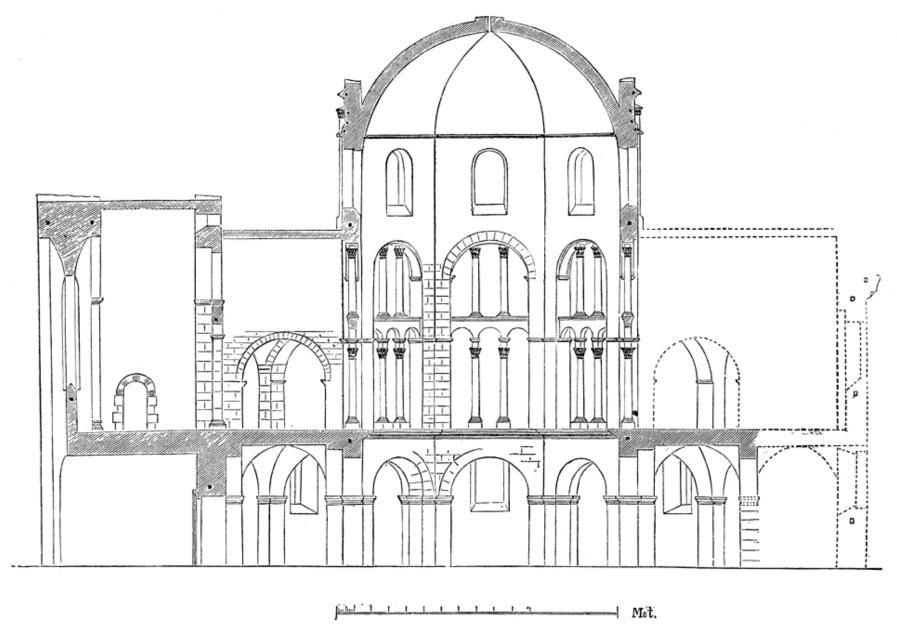
King Charlemagne Emperor 800-814 CE
Carolingian Architecture continued to the 10th Century
550 –1050 CE were the doldrums of Western Architecture



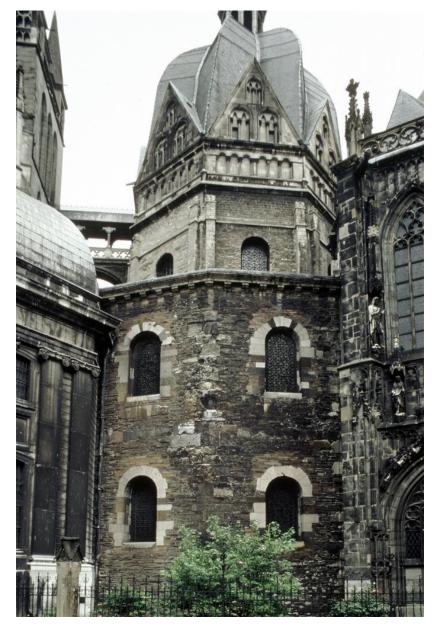


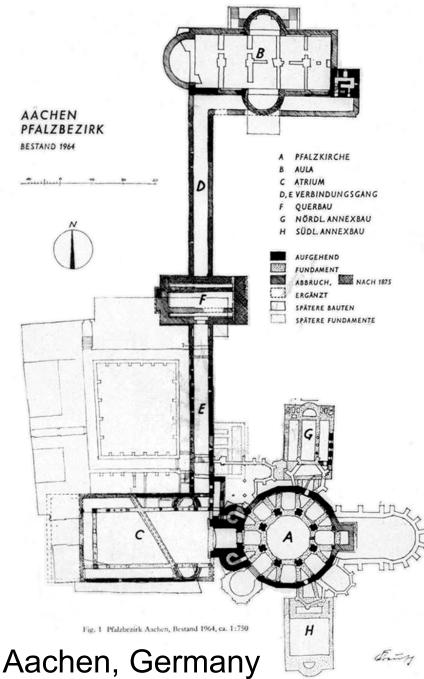
Royal Chapel 805 CE, Aachen, Germany

Roman and Byzantine Influences
Construction Techniques were Roman
Designed based on San Vitale, but a very heavy building
Palace Chapel and mausoleum for Charlemagne

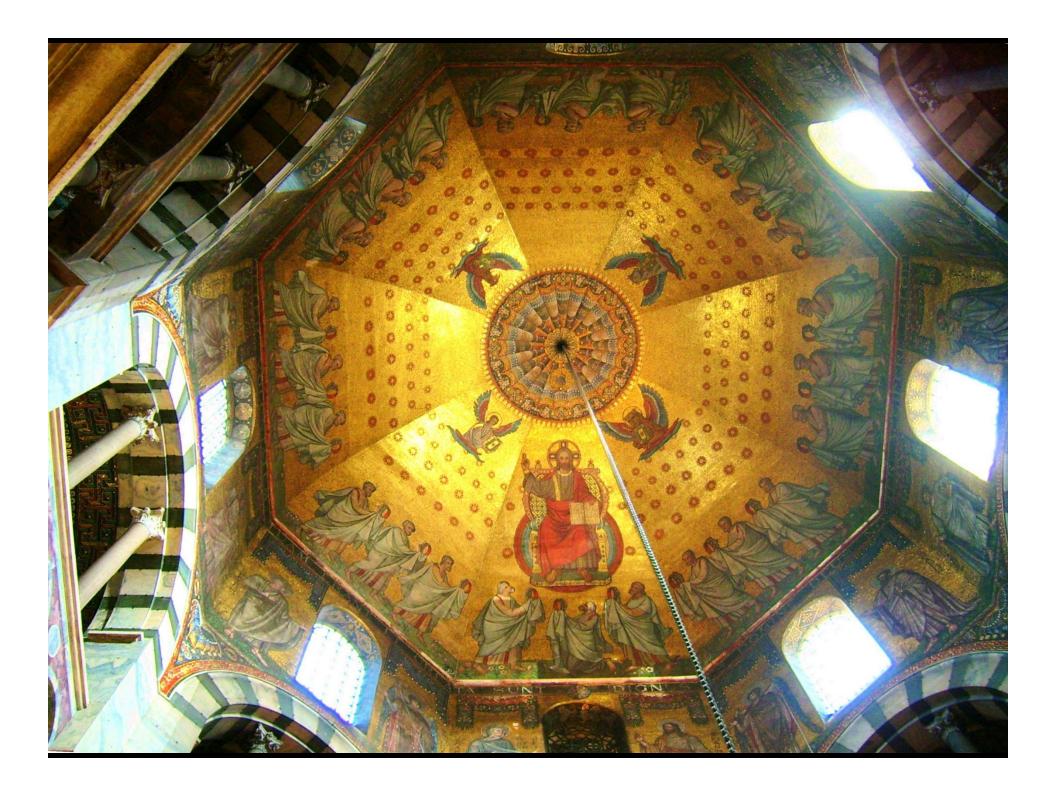


Royal Chapel 805 CE, Aachen, Germany





Royal Chapel 805 CE, Aachen, Germany



Reading: Fazio, Moffet & Wodehouse

A World History of Architecture or Buildings Across Time
Chapter 6 and Carolingian section of Chapter 8

