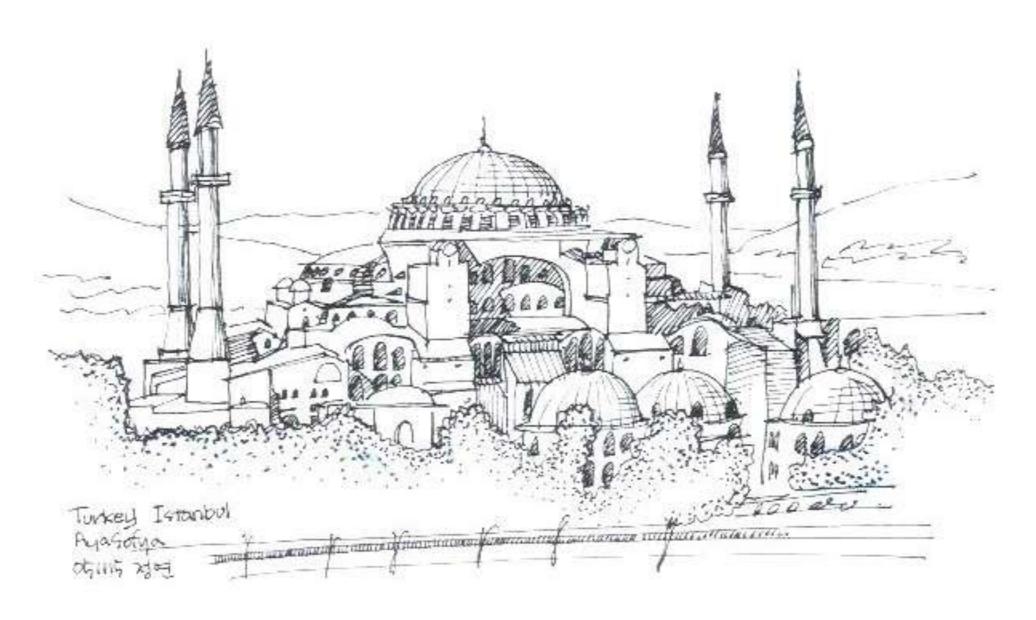
History of Architecture

Byzantine Architecture



Geography



History

- Constantinople was the
 capital of the Roman
 empire between 330-395
AD, then the capital
 of the Byzantine
 empire between
 395-1453

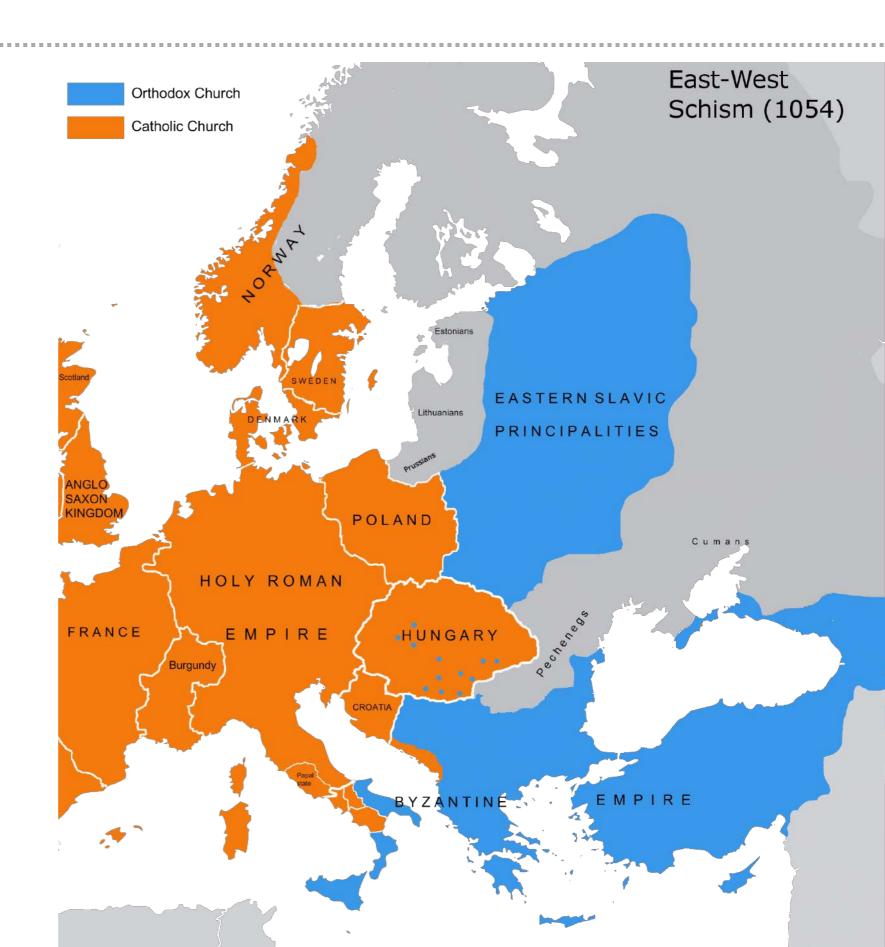
- State and church administration merged
- New form of the Roman
 Empire in the east
 emerged during
 Justinian era

Early Byzantium Emperors

Constantine I the Great	324-337 A.D.
Constantios (Constantius) II	337-361 A.D.
Julian	361-363 A.D.
Jovian	363-364 A.D.
Valens	364-378 A.D.
Theodosios (Theodosius) I	379-395 A.D.
Arkadios (Arcadius)	395-408 A.D.
Theodosios (Theodosius) II	408-450 A.D.
Marcian	450-457 A.D.
LeoI	457-474 A.D.
Leo II	474 A.D.
Zeno	474-475 A.D.
Basiliscos (Basiliscus)	475-476 A.D.
Zeno (again)	476-491 A.D.
Anastasios (Anastasius)	491-518 A.D.
Justin I	518-527
Justinian I the Great	527-565

History

The schism of the Christianity to
Orthodox (east) and
Catholic (west)
became evident from
Justinian era



History



The Byzantine Empire (The eastern Roman Empire) flourished during the 5th century AD and continued to exist for an additional thousand years until it fell to the Ottoman Turks in 1453.

Religion

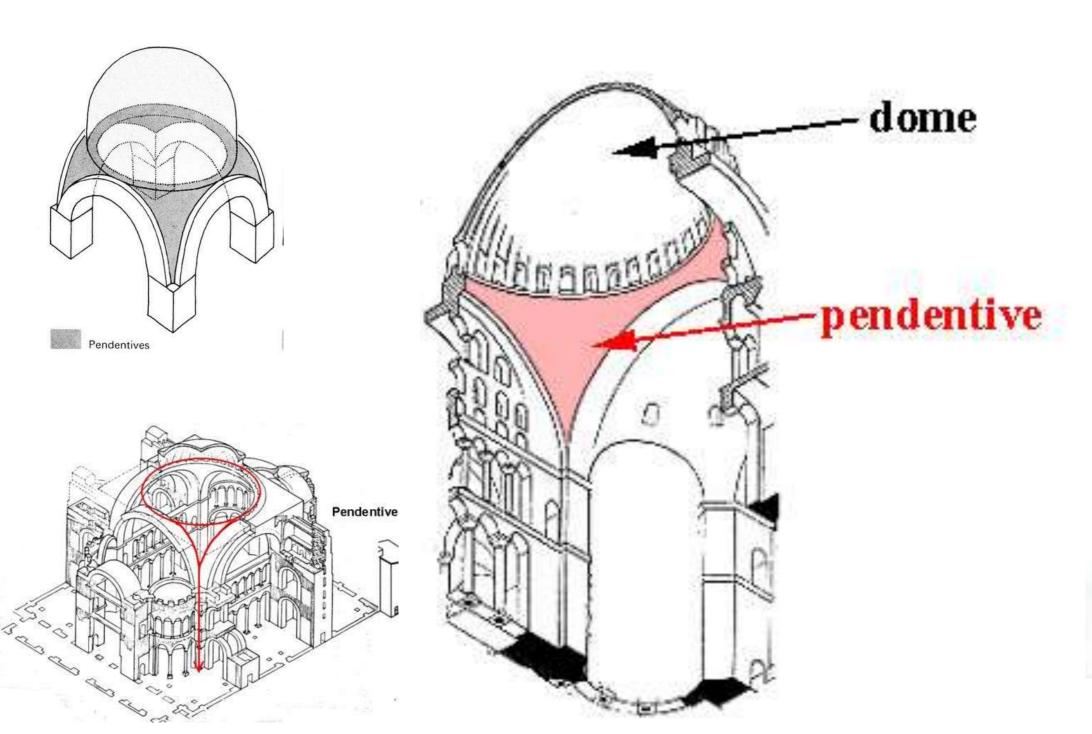
- The Church is viewed as a house of god and its design and construction as a reflection of this symbolism
- The **scale** of the church was increased and its **decoration** became more complex
- Contrast between the emphasis in Early Christian architecture on function and rituals, and in Byzantine architecture on symbolism

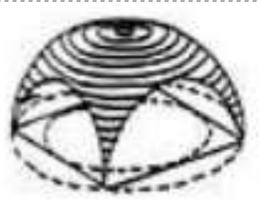




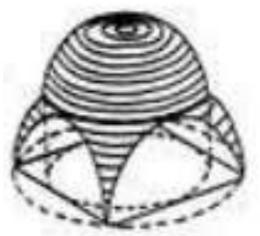
Architecture Character

The use of domed roofs; usually supported on pendentives

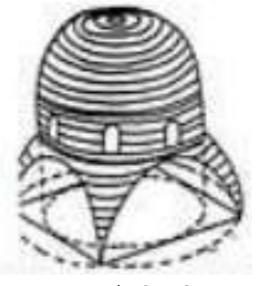




Pendentive dome



Dome with pendentive



Dome with drum on pendentive



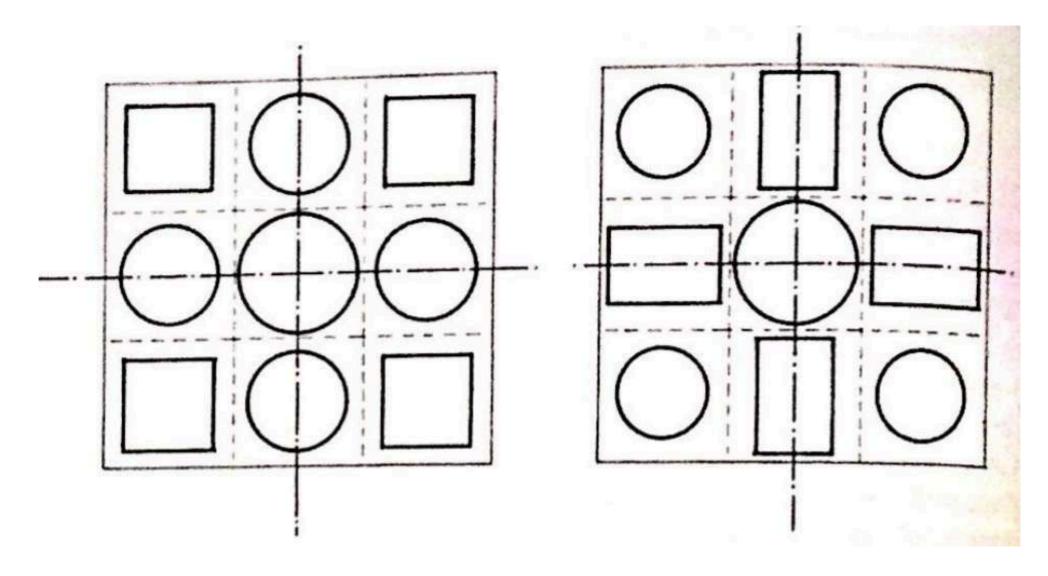




The use of brick and plaster with stone in walls, with minimal decorations from outside reflecting the interior orientation of Christianity

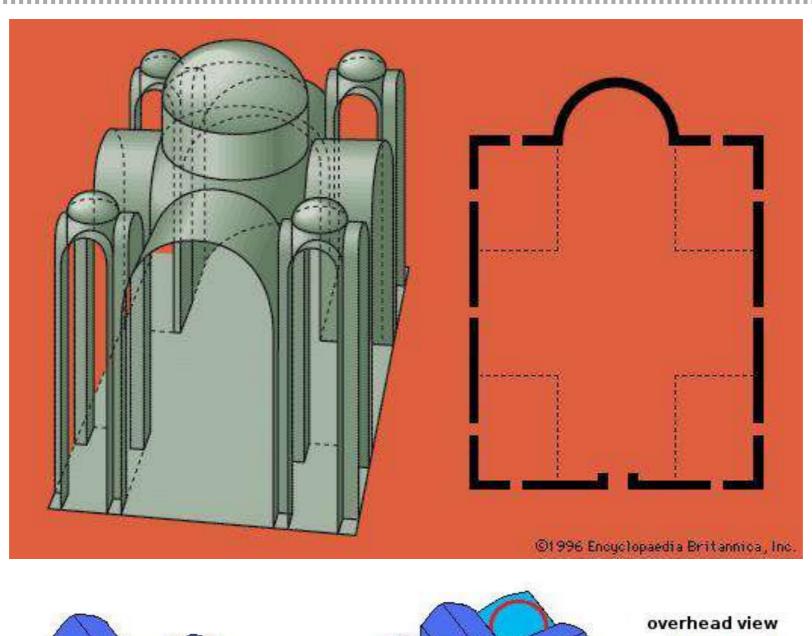


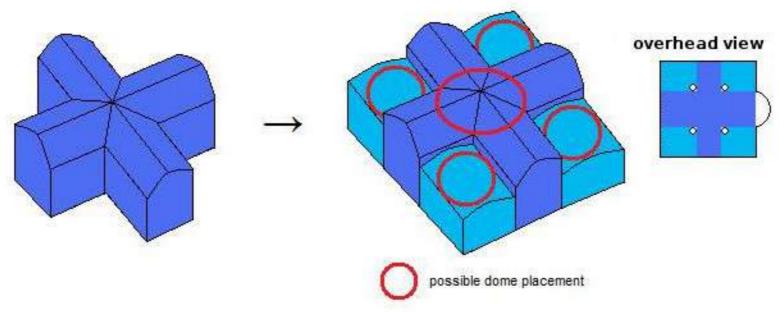
- The use of centralized church plan
- Numerous plan variations in which large **square** were divided into **nine components** squares with **dome at the centre** and the corners or at the centre and on the cross axes



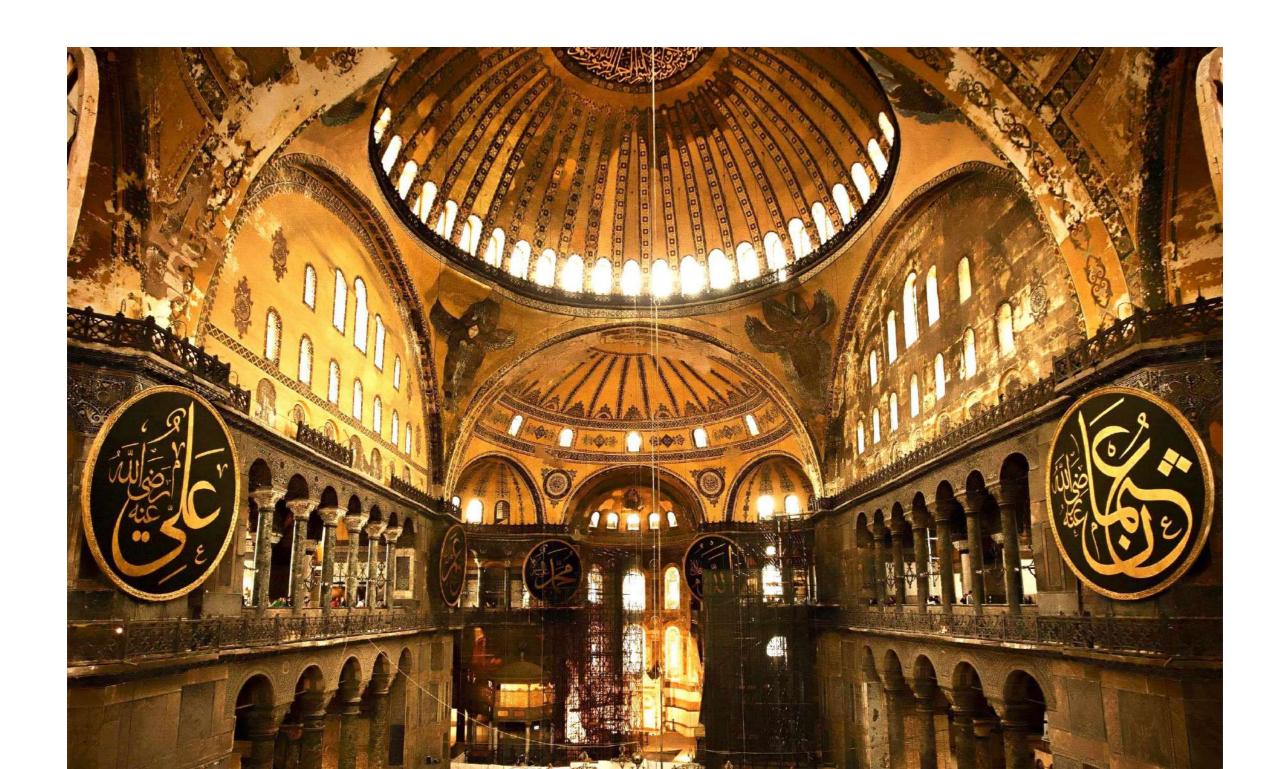
Domed Cross

Cross in square





Complex program of interior structure, lighting and decorations to create fascinating interiors



The use of mosaics in the interior



The Byzantine style merged between east and west motifs

From the East it borrowed:

- The color and luxury
- The central plan
- Symbolic decoration full of geometric patterns
- An appeal to the emotion

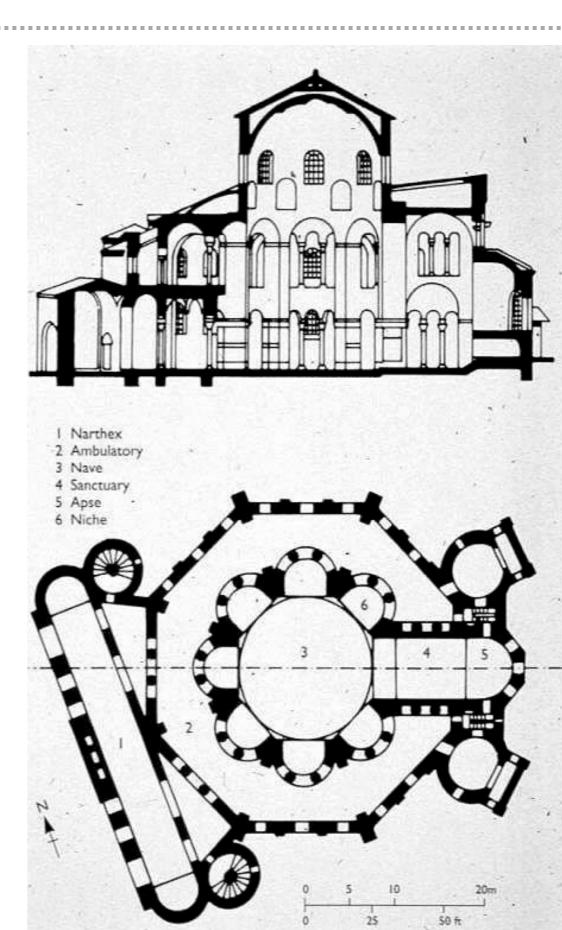
From Roman and Greek it adopted:

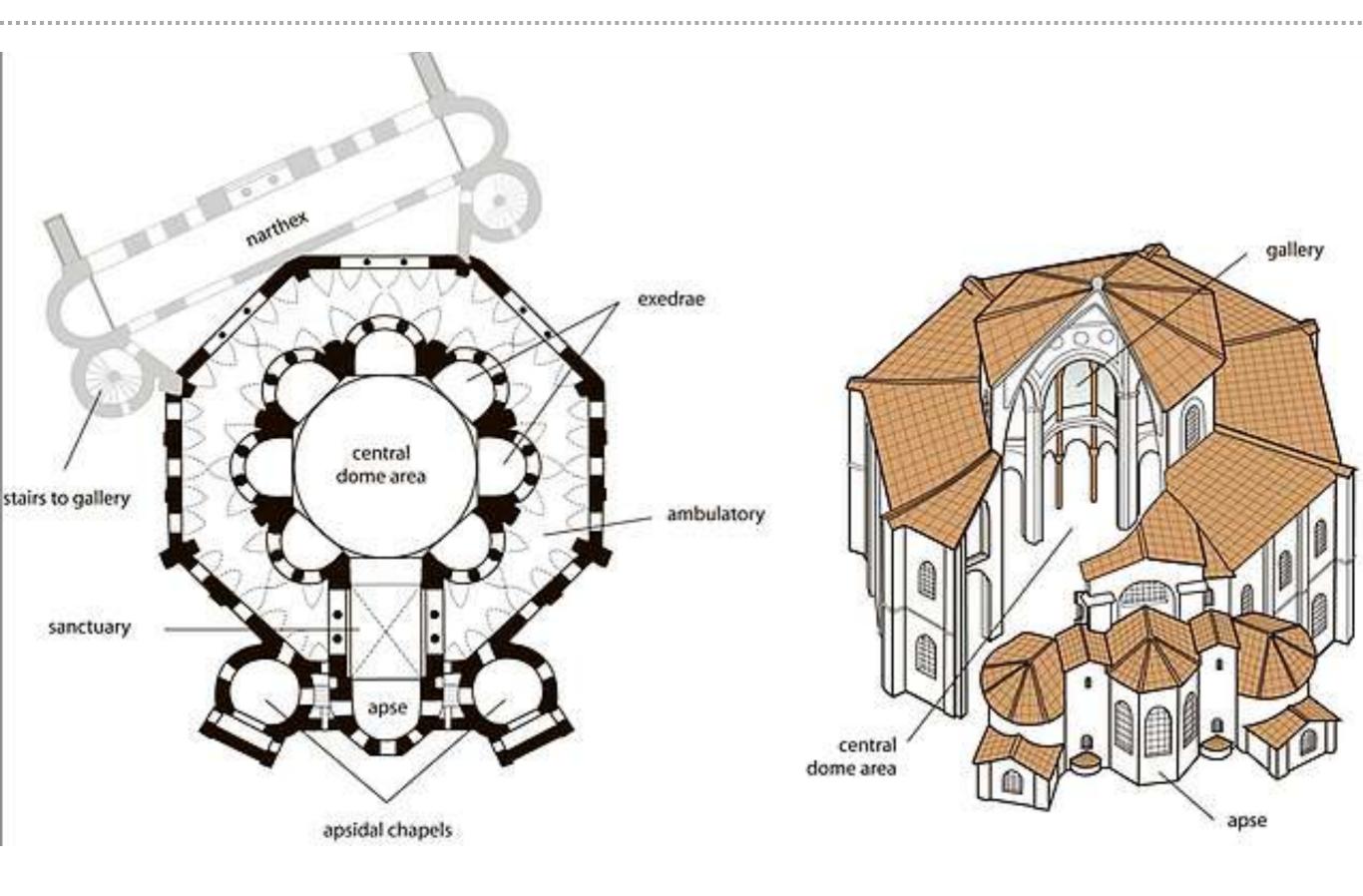
- The basilica layout
- Columns
- Vaulting techniques
- Arches

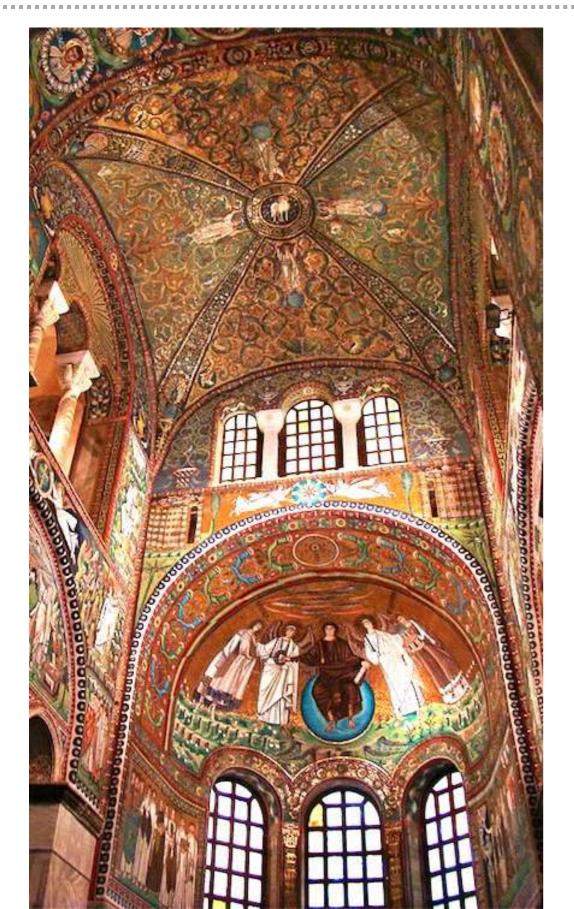
Early Church

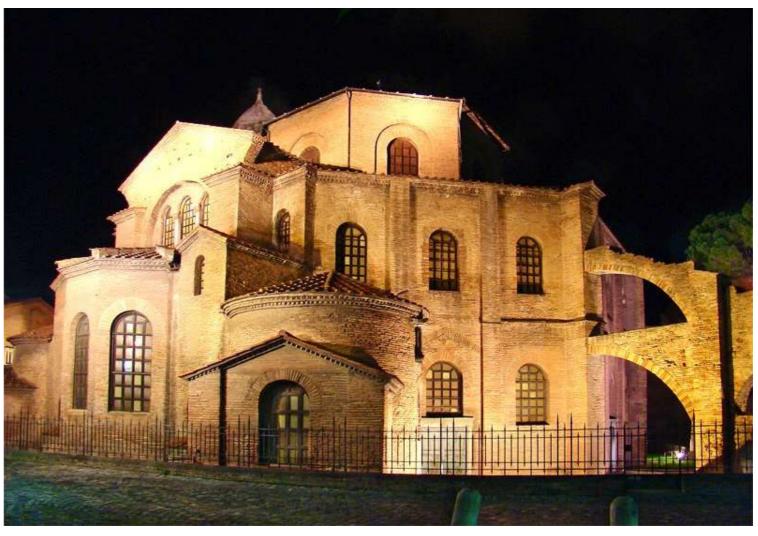


- Built during Justinian time
- Has double shell of two octagons with an adjacent atrium
- The opening of the inter octagons push out in arcaded niches
- Over the centre there is a dome with clerestory windows
- Material used are marble,
 stucco and mosaic

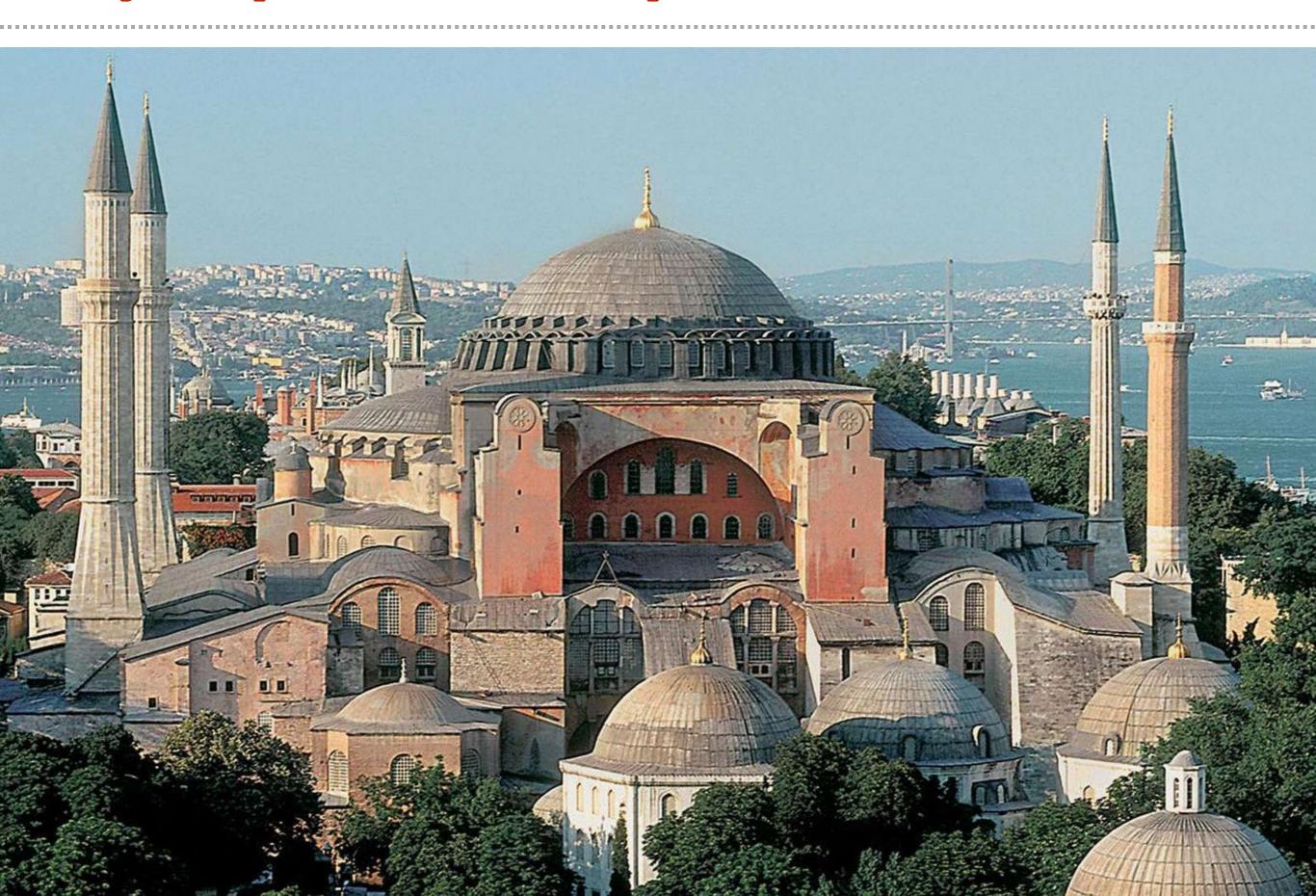






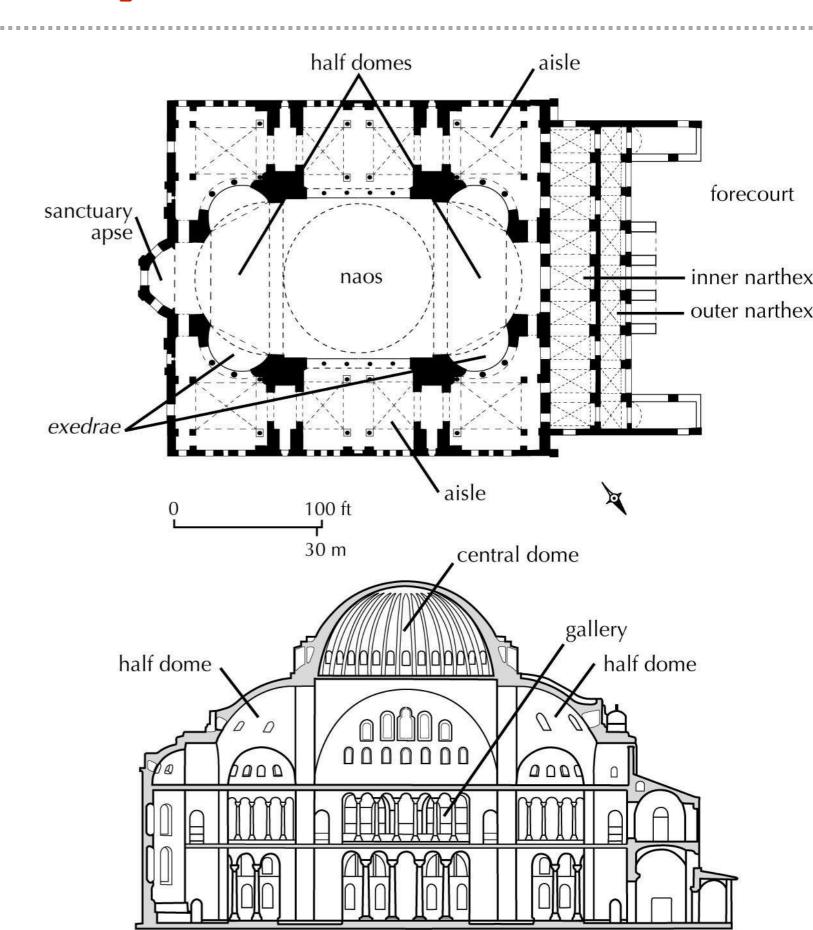


Byzantine Churches



- Dedicated to the Holy Wisdom (God)
- Centralized building combining the centralized and axial plan
- A square marked by four massive piers at the centre capped by a dome carried on pendentives.

 33 m in diameter, and 55 m high
- Along the main axis, half domes rising below the main dome
- End with an **apse** at the **East**



- The dome, the first to rival that of the Pantheon, was completely of brick
- But its structural sophistications were designed to be invisible to observers, who marveled at its gilded inner surfaces shimmering in the light

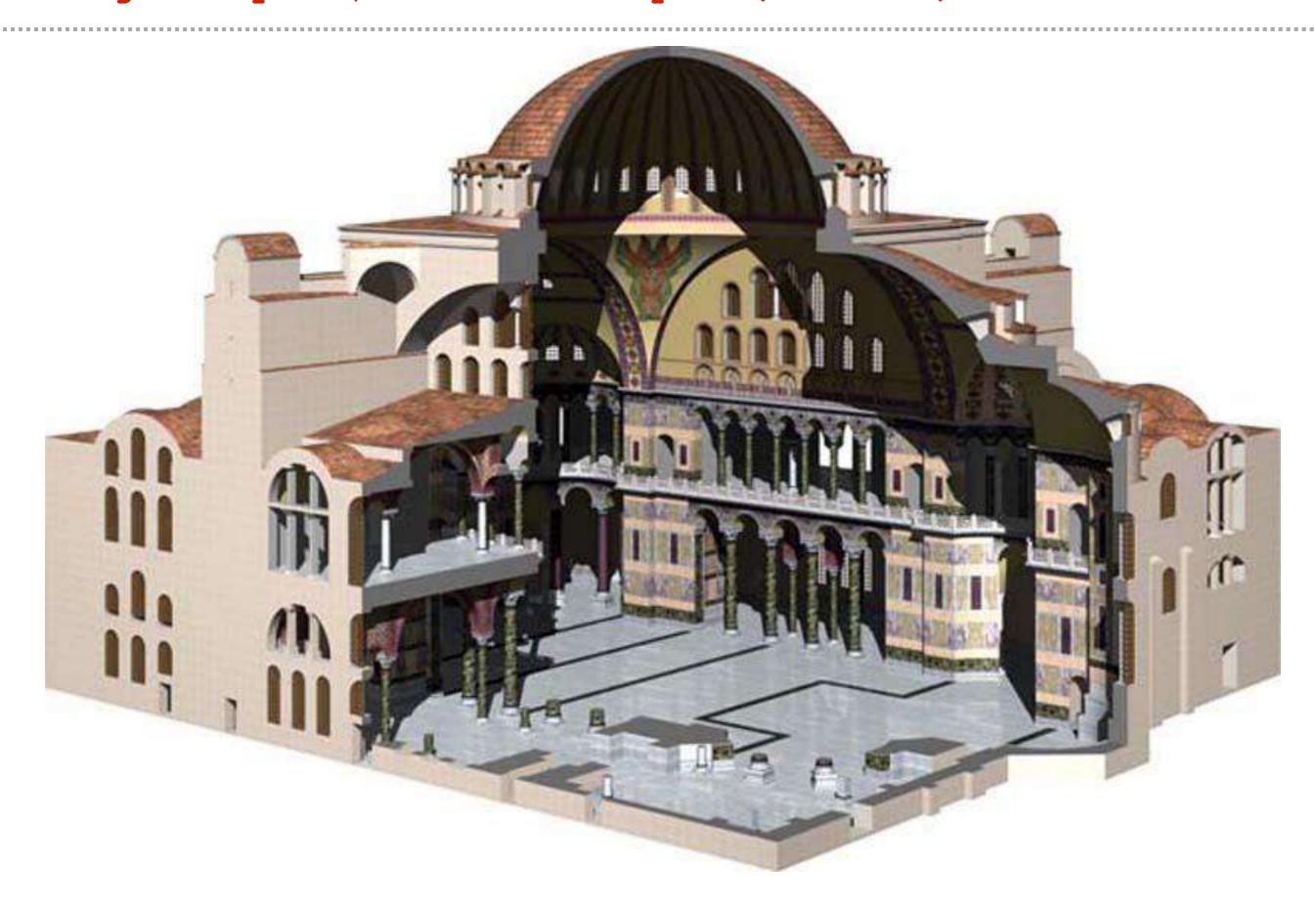


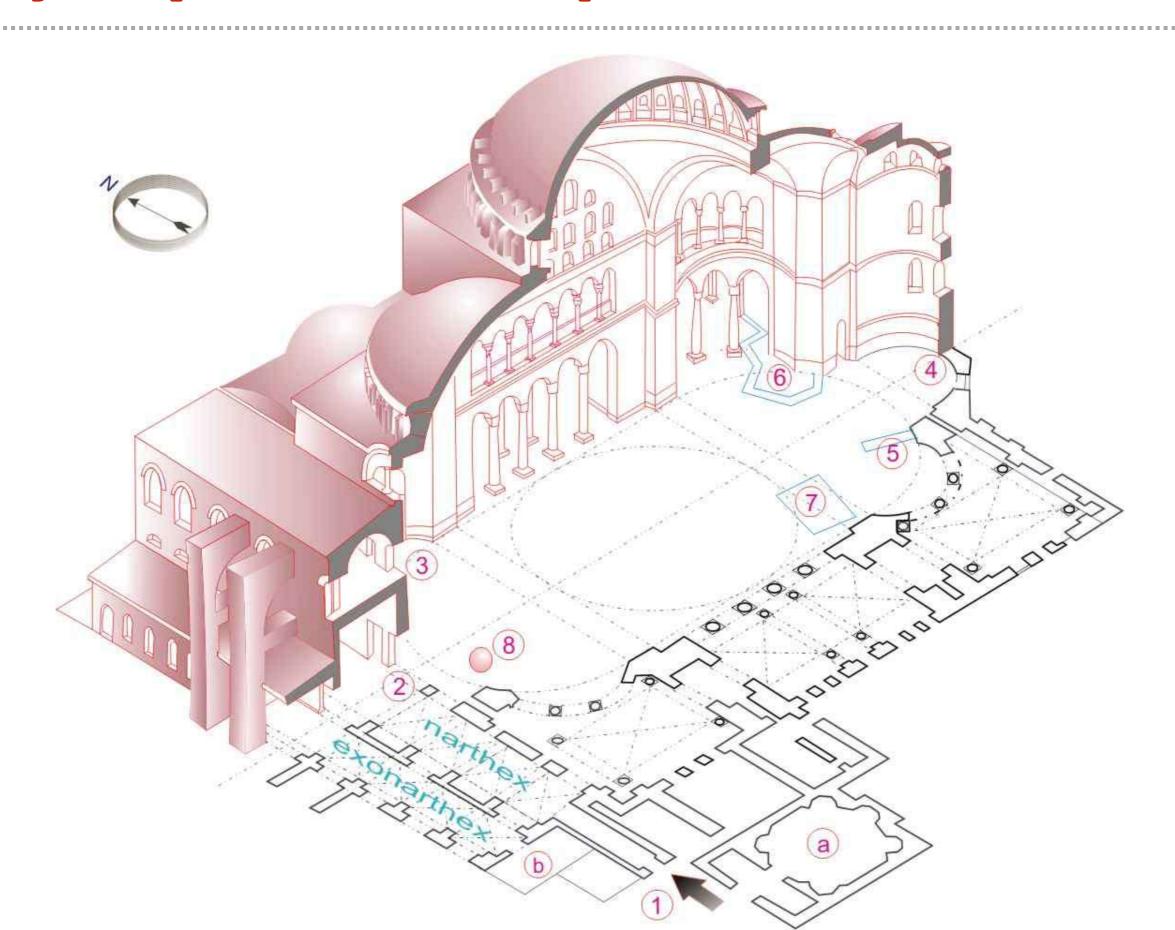


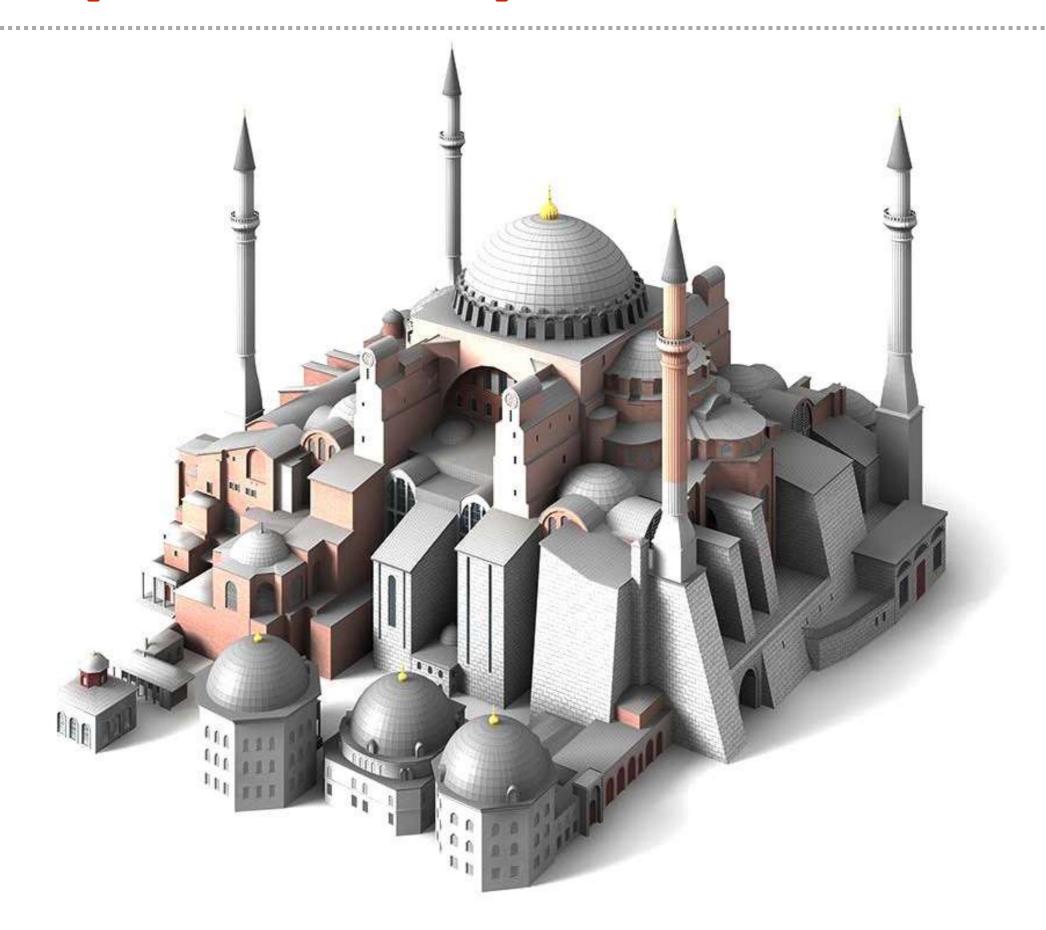
- The base of the dome was pierced with forty windows
- The interior was decorated with mosaics and marble









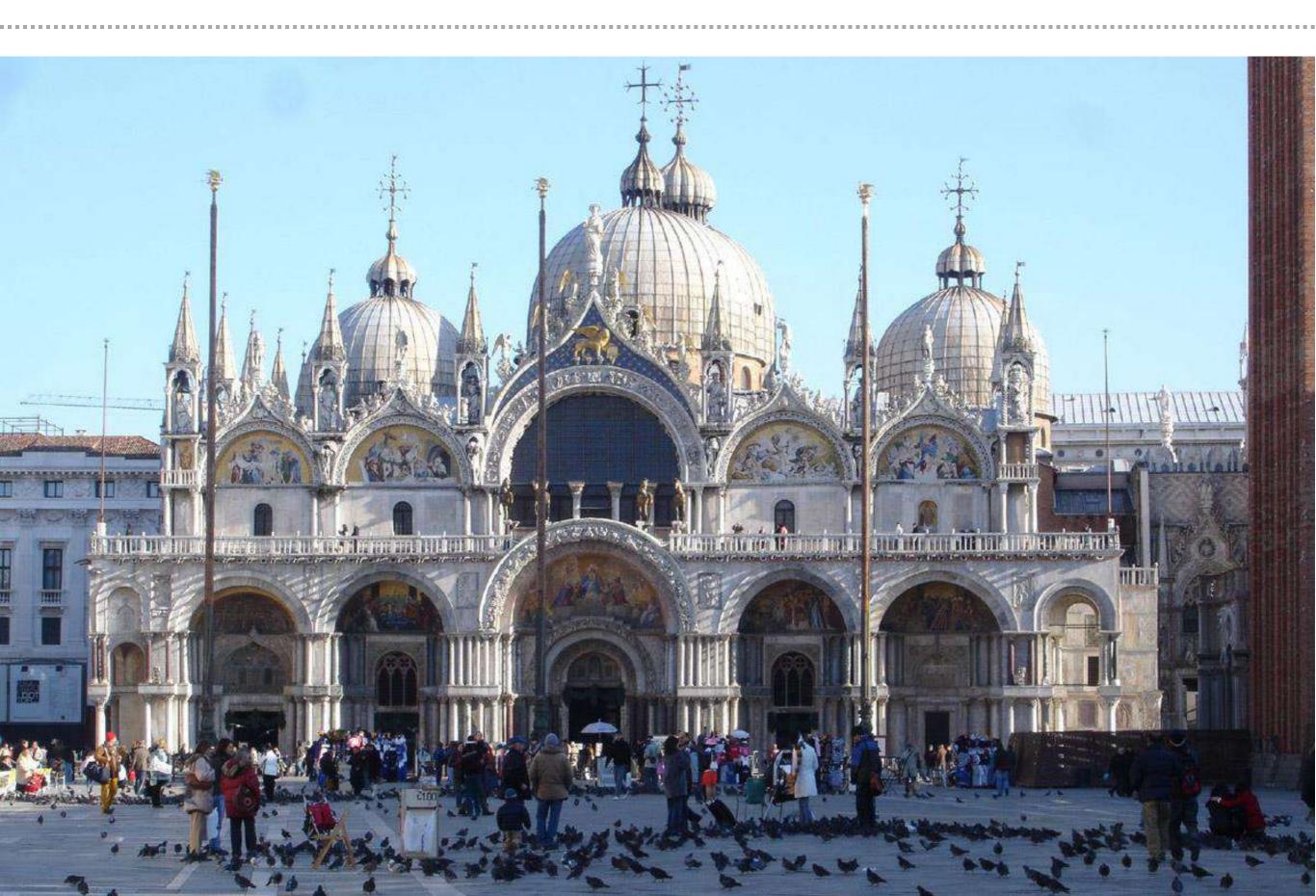




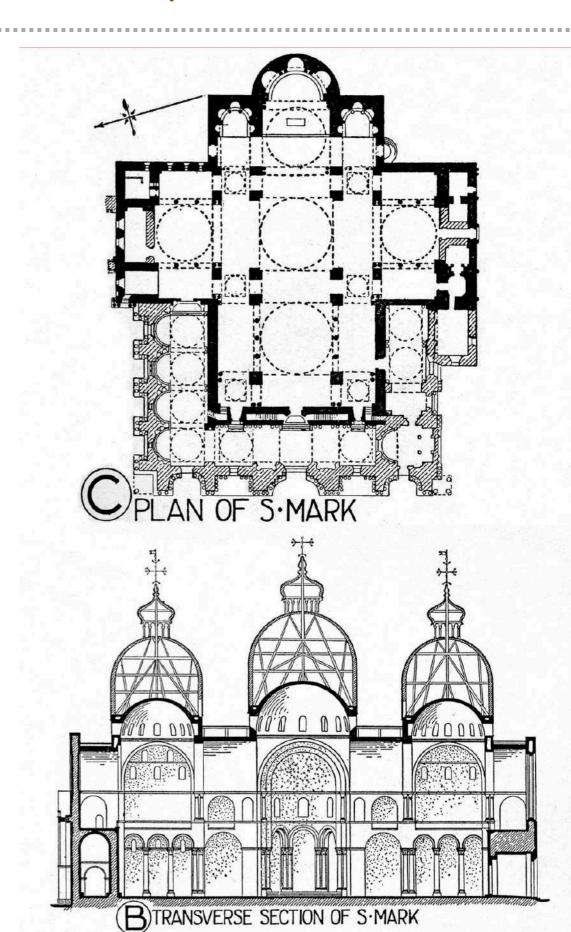
Unlike the static forms and spaces of classical architecture, here all seems in motion, surfaces curving and intersecting, light from hundreds of windows reflected by marble walls and mosaics

Byzantine Churches

Churches outside of Constantinople



- Based on a **Greek cross** floor plan
- Five dome church influenced by Hagia Sophia
- Four square arms, project from the centre, each square covered by a dome
- The front façade is Gothic and was added much later



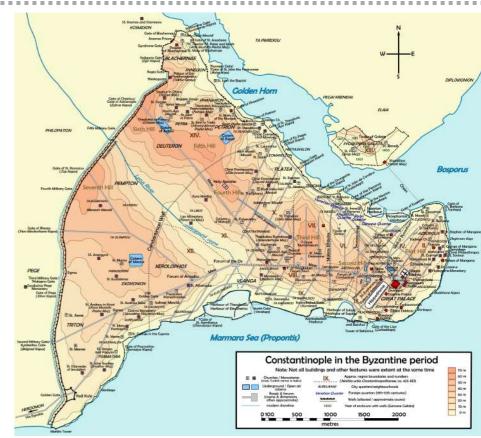


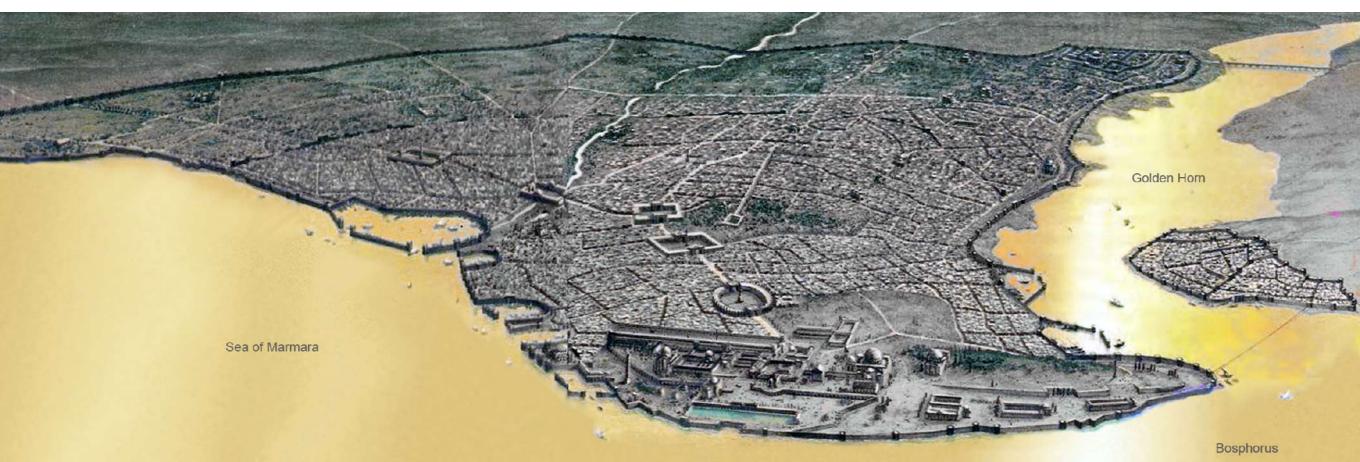


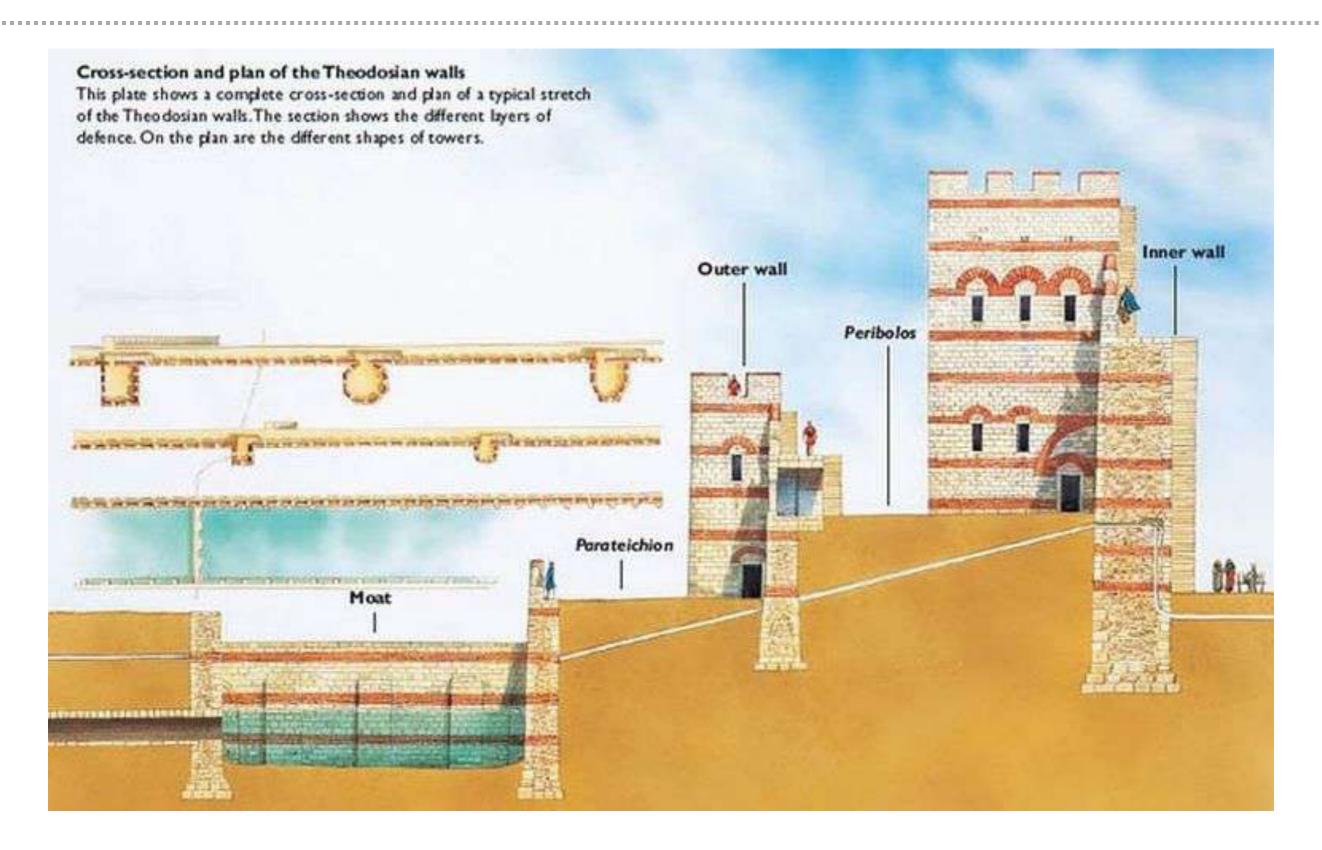
The walls were covered entirely in **gold mosaic** presenting figures of the apostles, saints and angles



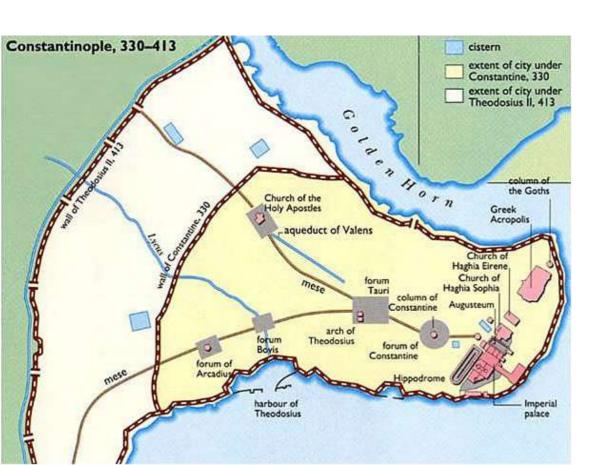
- **Peninsula** surrounded by water except to the west
- At the west it is protected by a triple wall 6km long
- The city had a **radial** disposition

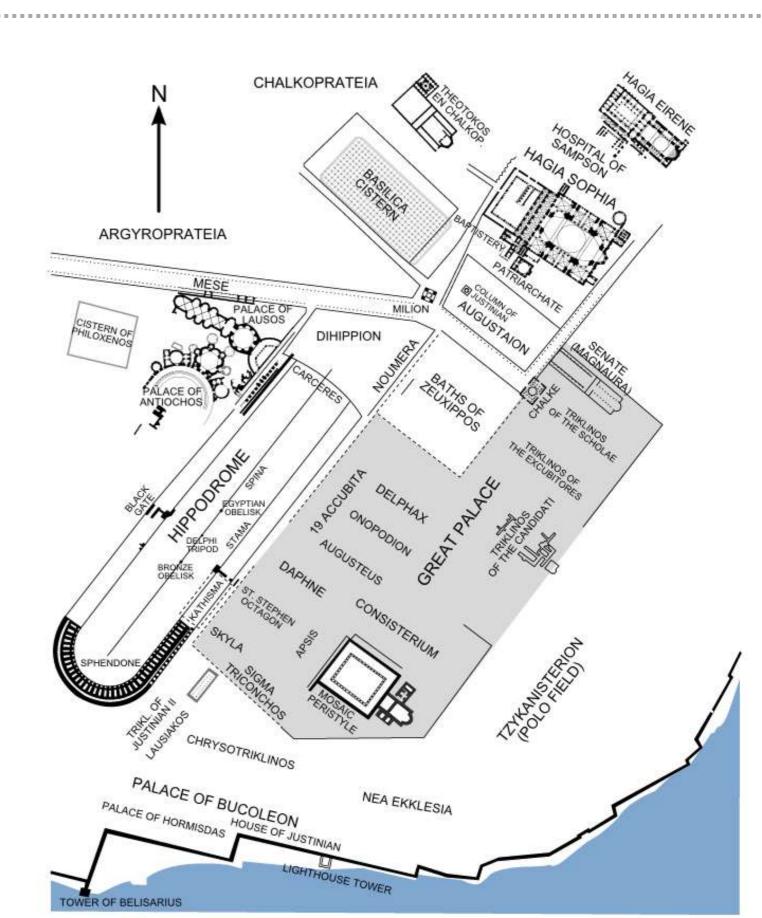


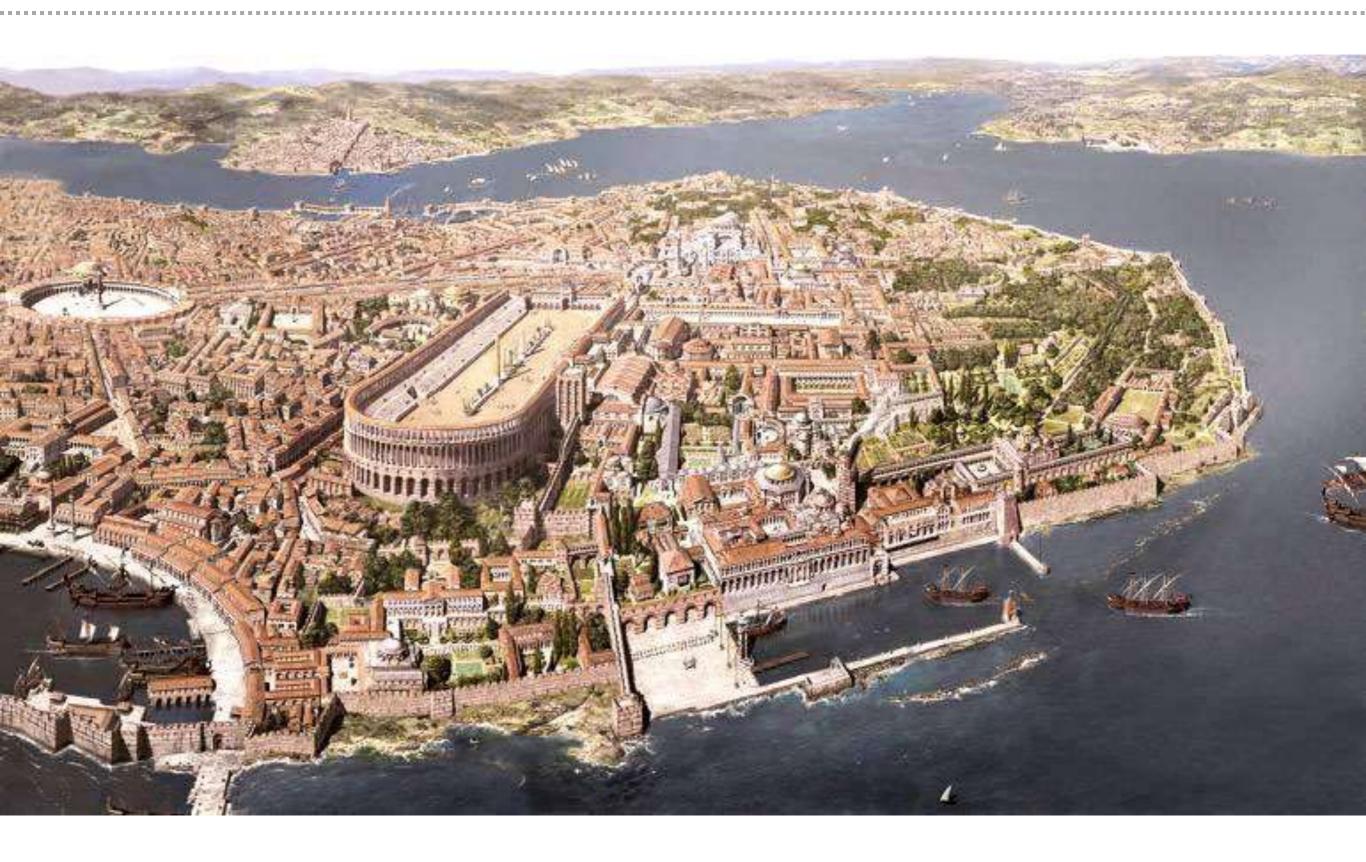


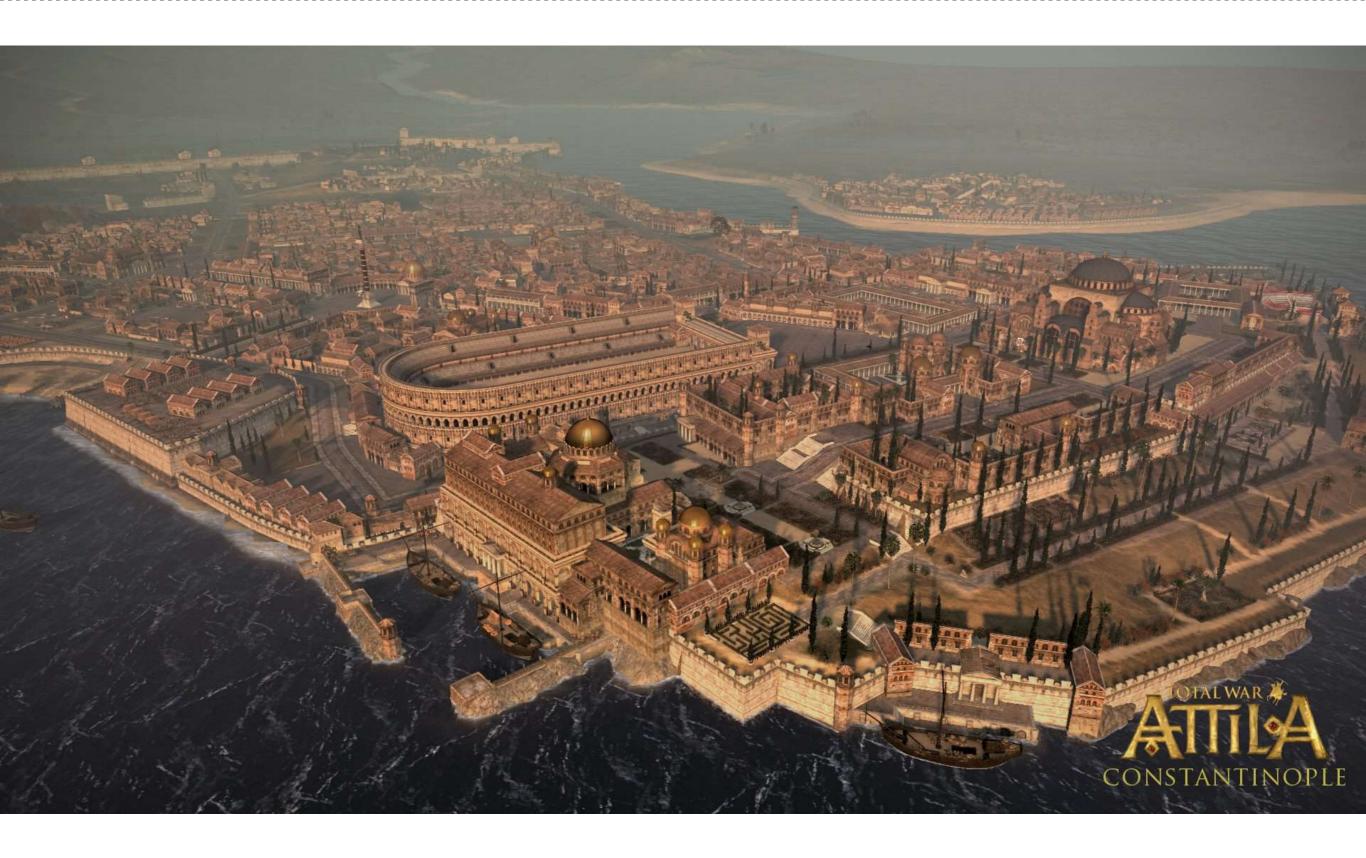


- The city had an imperial palace set beside the hippodrome
- The city had a forum and basilica in which the senate met
- Notice the many cisterns for the collection of water



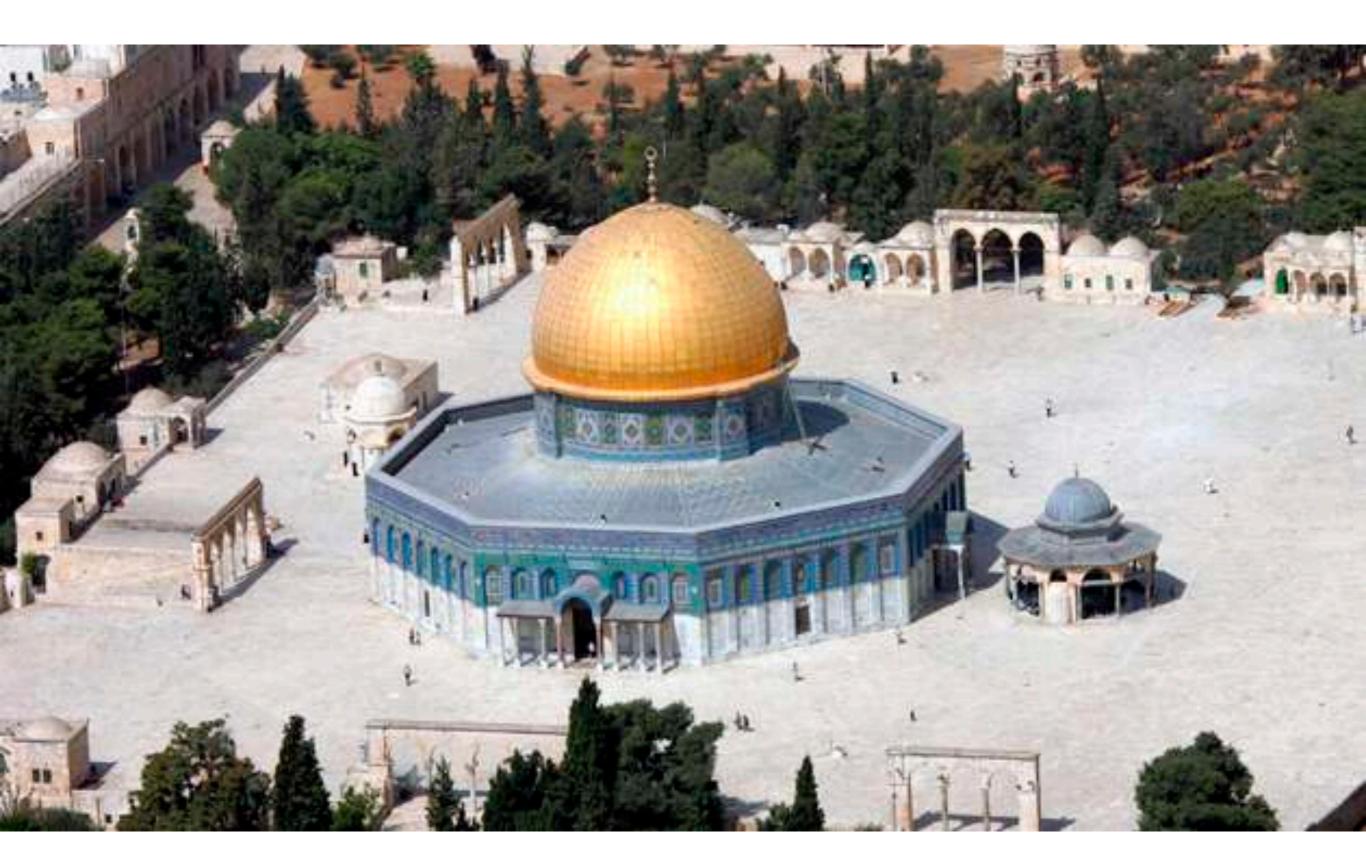




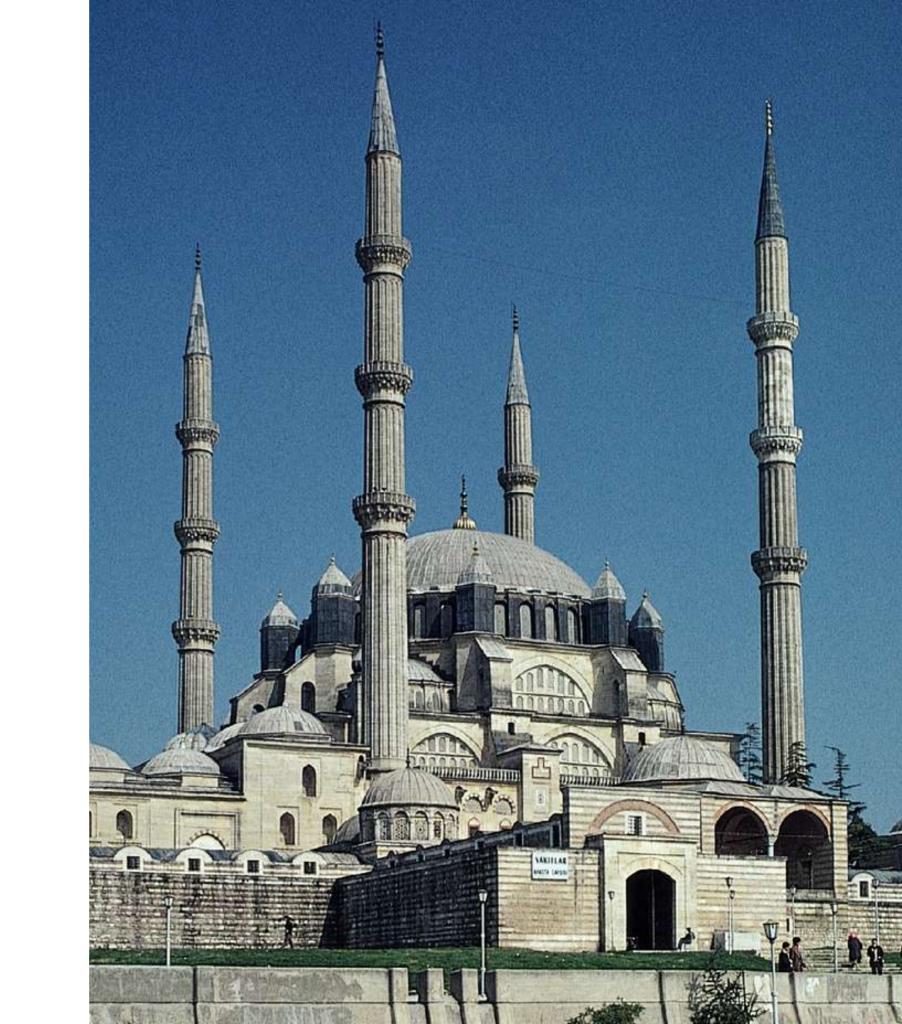


Byzantine Architecture

Influence on Islamic Architecture



The Dome of the Rock, 691



The mosque of Sultan Salim al Thani, Turkey, 1569



Taj Mahal, 1643

Links:

https://www.youtube.com/watch?v=KRPp3jzv1Tw

Next lecture

Romanesque Architecture