UNIVERSITY OF ABOUBEKR BELKAID TLEMCEN FACULTY OF TECHNOLOGY DEPARTEMENT OF ARCHITECTURE ACADEMIC YEAR 2024/2025

1<sup>st</sup> Year Architecture

Subject title: Critical History Of Architecture

Course leader: Ms BENADLA-KDROUSSI Houda Wafâa

# MEDIEVAL AGES ARCHITECTURE

PALAEOCHRISTIAN - BYZANTINE\_ ROMANESQUE AND GOTHIC PERIODS

ARCHITECTURE MÉDIÉVALE PÉRIODES PALÉOCHRÉTIENNE- BYZANTINE- ROMANE ET GOTHIQUE LECTURE 6

The beginning of the Middle Ages is often characterized by a shift from the classical world of the Romans to a more decentralized and fragmented political and social landscape. Over time, the medieval period would witness the development of feudalism (féodalisme), the establishment of powerful kingdoms and empires, the expansion of Christianity, and the gradual emergence of new economic and social structures.

# La hiérarchie sociale au début du haut Moyen Âge 1% Royauté 5% -Riches -Clergé -Nobles -Seigneurs -Chevaliers -Paysans, unisans, unischands

# **Introduction to The Middle ages**

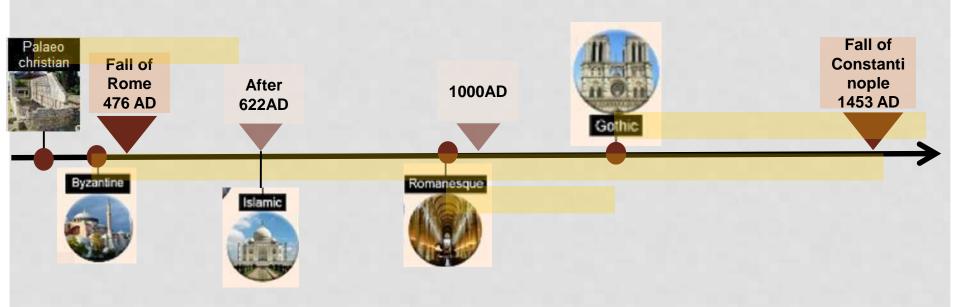
# **Architectural periods**

Medieval architecture emerged during the Middle Ages, a period generally spanning from the 5th to the 15th century. From the fall of Rome in 476 AD (Fall of the Western Roman Empire) to the conquest of Constantinople by the Ottomans in 1453 AD.

However, this period covers several architectural periods:

- Palaeochristian (Late Antiquity 6th century)
- Byzantine (4th century 15th century)
- Romanesque (10th century 12th century):
- Gothic (12th century 16th century)

# Introduction to The Middle ages Timeline



# PALAEOCHRISTIAN ARCHITECTURE

Architecture paléochrétienne



# Palaeochristian Architecture Feature's Early Christian Churches

Palaeochristian architecture, also known as Early Christian architecture, emerged during the early Christian period, spanning from the 1st to the 6th century (537 AD \_ Building of Hagia Sophia).

# Features of this architectural period

**Basilicas:** Religious buildings were primarily basilicas, which were rectangular halls with a central nave higher than the side aisles. These spaces were often used for liturgical assemblies and ceremonies.

Longitudinality

Colonnades

**Wooden Roofs** 

**Simple Decorations:** moderate use of mosaics and frescoes. Geometric patterns and early Christian symbols were frequently employed.

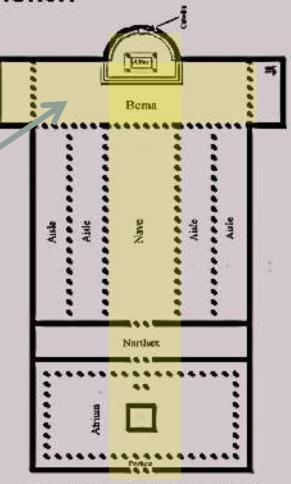
**Apse:** a semi-circular apse at the end opposite the entrance, where the **altar** (**autel**) was located. These apses were often richly decorated.

**Roman Influences:** many techniques and styles from classical Roman architecture were adopted to Christian liturgical needs.

# **Early Christian Churches The basilical Plan**

# A TYPICAL BASILICAN CHURCH

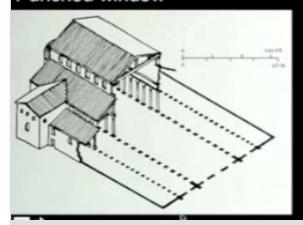
- Commonest form of the early church.
- Unlike the earlier Roman phase, the interiors were give more importance than exterior.
- Rectangular hall, timber-roofed with coffers & richly glided ceiling (hiding the roof truss) on nave.
- Usually with one or two aisles to each side of the central nave separated by rows of restic marble columns, sometimes carrying flat entablatures & sometimes, rows of arches.
- The width of aisles was half that of the central nave.
- Apse at one end facing the principal entrances at the other end.
- Bema / Transept a raised platform where altar was placed & from where the clergy officiated.
- A courtyard (atrium) having a central fountain for ablutions & surrounded by colonnaded ambulatory.



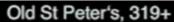
Plan of a typical EC Basilica

# San Giovanni in Laterano, 313

Basilica Clerestory windows Nave Aisle Transept Wall Punched window



Palaeochristian Architecture
Early Christian Churches
Giovanni in Laterano, Italy



Basilica Clerestory windows Nave Aisle

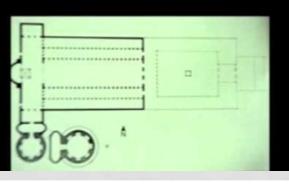
Transcept Flat Roof

**Truss** 

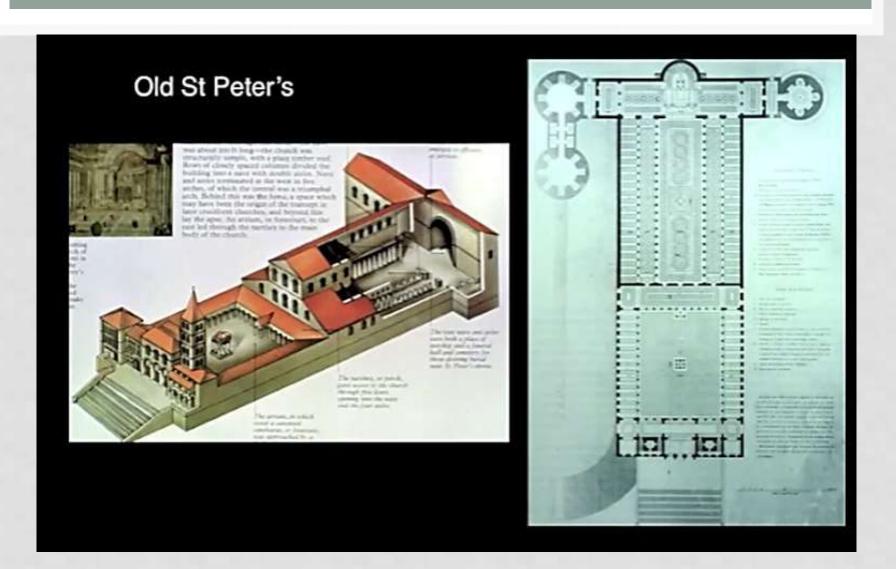
Apse

Martyria Courtyard





# **Palaeochristian Architecture Famous Early Christian Churches**



# Palaeochristian Architecture Conclusion

Palaeochristian architecture established fundamental principles that influenced the later development of medieval Christian architecture, including the transition to the Romanesque style.

Early Christian churches were simple yet significant worship spaces, marking the transition between Roman architecture and subsequent medieval developments.

# **BYZANTINE ARCHITECTURE**

Architecture byzantine

Centre de la ville de Constantinople



# **Introduction to the The Byzantine Architecture**

# Introduction



Constantinople (Istanbul)

- · By the end of the 5th century AD, Rome had completely declined
- It had been sacked twice and was then under occupation
- Its influence was significantly reduced and the Impetus for architectural innovation shifted to the Byzantine Empire
- This shift also marks the movement from early Christian civilization to the Byzantine civilization
- Under the Byzantine Emperor Justinian, the Byzantine style of architecture evolved
- His interest in church building led to the discovery of the groin vault and the evolution of the Byzantine style

Rise of Germanic Kingdoms: As the Western Roman Empire disintegrated, various Germanic kingdoms emerged in its former territories. The Visigoths established a kingdom in Spain and southern Gaul, the Vandals in North Africa, and the Ostrogoths in Italy.

Byzantine Empire: The Eastern Roman Empire, often referred to as the Byzantine Empire, continued to exist for several centuries. Its capital, Constantinople, remained a center of culture, trade, and political power.

Decline of Urban Centers: The collapse of the Roman Empire resulted in the decline of urban centers, and trade networks contracted. Many people moved away from cities to rural areas seeking stability and safety.

Spread of Christianity: Christianity, which had been officially recognized in the later years of the Roman Empire, played a significant role in the cultural and religious landscape of the Middle Ages. The Church became a stabilizing force and a key institution in medieval society.

# **Context of Byzantine Architecture**



Byzantine architecture emerged and flourished during the Byzantine Empire, spanning from 330 CE\_ foundation of Constantinople\_ until the fall of Constantinople in 1453. But the Byzantine style really begins with the construction of Saint Sophia as the prototype of Byzantine churches in 537 CE.

# **Key dates of The Byzantine Empire**

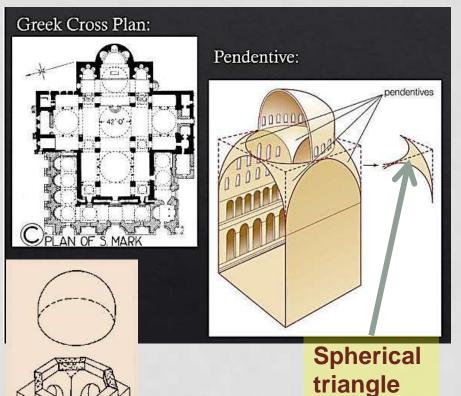
313 conversion of Constantine to christianity. He authorizes freedom of worship

# Byzantine Empire - Early Period Timeline: worship.

- 330: Emperor Constantine founds a new capital of the Roman Empire at the Greek town of Byzantium, renaming the city Constantinople after himself
- 395: Death of Emperor Theodosius Empire permanently split in two halves. Constantinople is capital of the Eastern Roman Empire
- 527-565: reign of Emperor
   Justinian I. Greatest
   expansion of Byzantine
   Empire
- 1453: Fall of Byzantine Empire



# **Main caractheristics of The Byzantine Architecture Central plan on greek cross Domes on squinches and pendentives**



Dome supported on

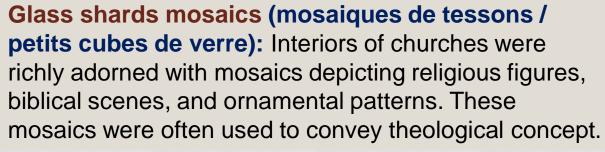
squinches

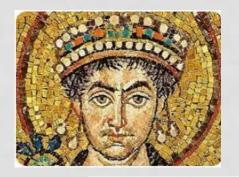
Byzantine architecture is renowned for its impressive use of domes and cupolas on squinches or pendentives and the use of a central plan (Plan centré et coupoles sur trompes et sur pendentifs). Churches and religious buildings often featured central and lateral domes, creating a sense of grandeur and spirituality.

> The use of Greek Cross Plan (plan sur coix grecque): Many Byzantine churches adopted a Greek cross plan, with a central nave and equal arms.

# Main caractheristics of The Byzantine Architecture Golden mosaics and ferscos







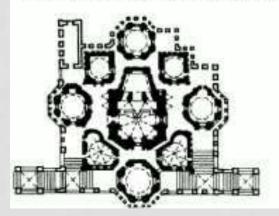
Use of figurative and then floral mosaic with the application of gilding (emploi de la mosaïque figurative puis florale avec l'utilisation de la dorure).





# **Byzantine Churches Features**

- Although it is impossible to identify two similar Byzantine churches, it is still possible to identify the basic characteristics of an ideal Byzantine church
- The attributes of the ideal church included:
- The use of a centralized church plan
- The use of surrounding isles
- The use of pendantives and dome on pendentives
- And the use of a complex program of interior structure, lighting and decoration to create fascinating interiors









San Vitale ca. 546-48 CE Ravenna, Italy

# Byzantine Churches Early prototypes Sait Vitale, Ravenna, Italy

Early Prototypes (St Vitale Ravenna)

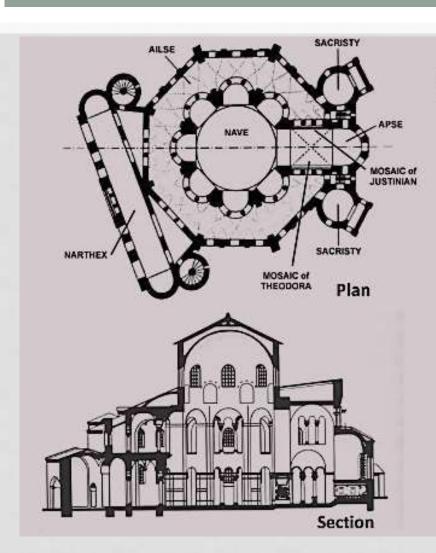
- Byzantine architecture has its early prototypes in two churches, San Vitale (526-47), Ravenna and in Saint Sergius
- and Saint Bacchus in Constantinople
- Ravenna once served as the seat of the Roman Empire
- The church is among the most important monument of Byzantine architecture
- It was also the prototype for the Hagia
   Sophia which was built 10 years later
- The exterior is very plain no interest in impressing from the outside, but want to impress through the interior design and its meaning.



San Vitale Ravenna, view Source: Trachtenberg & Hyman (1986)



# **Early prototypes Saint Vitale, Ravenna, Italy**



Early Prototypes (St Vitale Ravenna AD 526-547)

- The church is octagonal in plan
- It has a domed octagonal core surrounded by ground level ambulatory with a gallery above it
- The outer wall of the ambulatory is also octagonal
- It has an apse which extends from the central core to one of the 8 sides of the outer octagon

#### Early Prototypes (St Vitale Ravenna AD 526-547)

- The domed roof of the church is raised on a drum allowing it
- · greater height and lighting
- The dome has a diameter of 17 meters and a height of 30 meters
- The Byzantine characteristics of the church include:
  - · Its central planning
  - The structural arrangement of its central dome
  - · The use of surrounding isles
  - And the way structure, lighting and decoration have been integrated in the interior of the church



Early prototypes
St Vitale
Greco-roman inspirations





The Baths of Caracalla, Rome, c AD 212-216

San Vitale, Ravenna, c. AD 548

#### Early Prototypes (St Vitale Ravenna)

- Central image of Christ. Emphasis on natural landscape, with greenery and flowers. But, behind him is a heavenly realm characterized by a gold background. Shows Christ as the ruler of the world, and he wears purple garments.
- Panels that show the donors themselves. The Emperor Justinian, wearing the same kind of clothes that Christ is depicted as wearing, shown presenting a liturgical vessel to the bishop of the church. He is flanked by the imperial troops that contain the chi ro symbol - first developed through Constantine.





**Early prototypes St Vitale Mosaics and Frescoes** 







Early Prototypes (St Vitale Ravenna)

Series of smaller arches supporting a centrally domed space. At one end of the plan there is an area that protrudes outward for the altar space Filled with decorative, colorful and vibrant mosaics.







Hagia Sofia 532-537 558-563

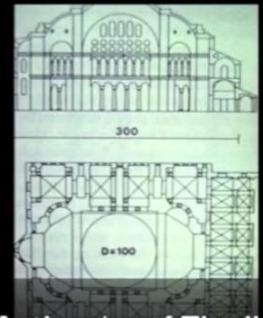


# Byzantine Churches Early prototypes Hagia Sophia

Minarets

The basilica served as an Orthodox cathedral for many centuries, then as a mosque after the Ottoman conquest of Constantinople in 1453. More recently, in 1935, it was transformed into a museum. In 2020, it was reconverted into a mosque by presidential decree.

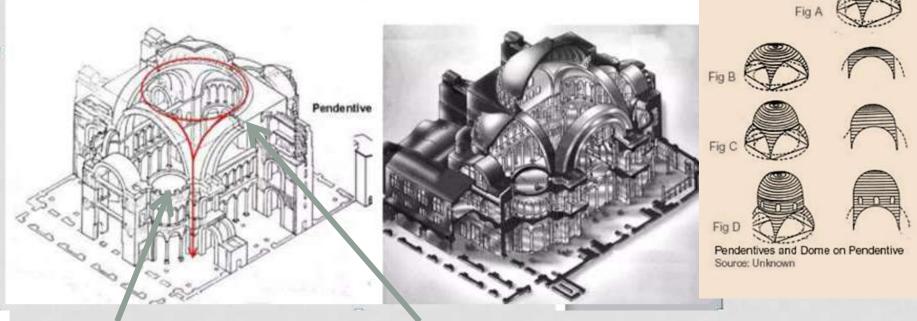
Hagia Sofia 532-537 558-563



Isadore of Miletus & Anthemius of Thralles

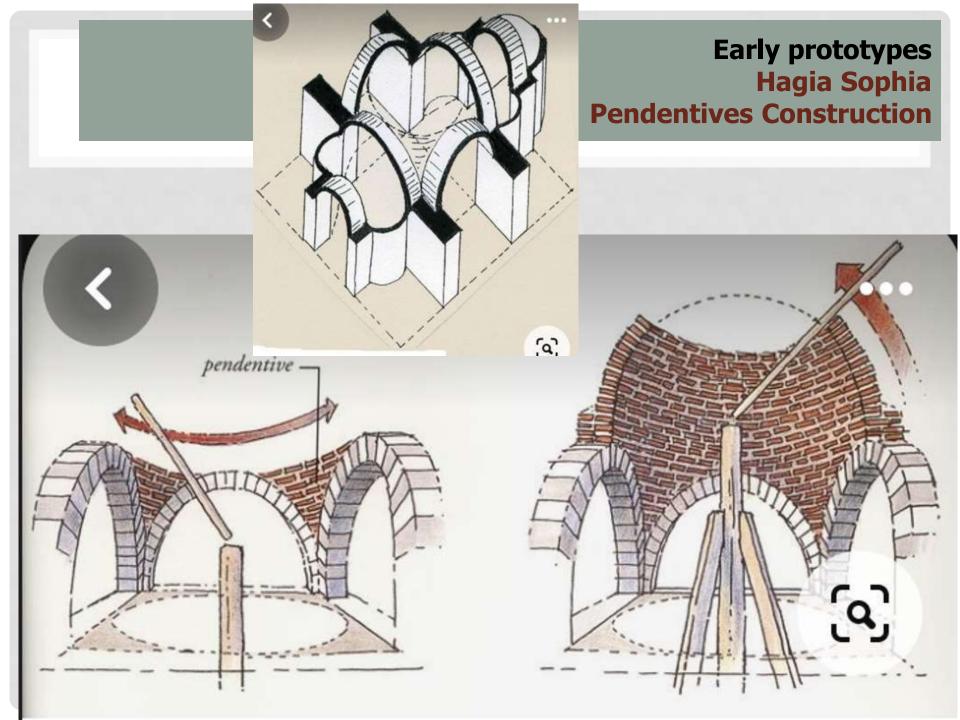
# Early prototypes Hagia Sophia features Domes on pendentives and on squinches

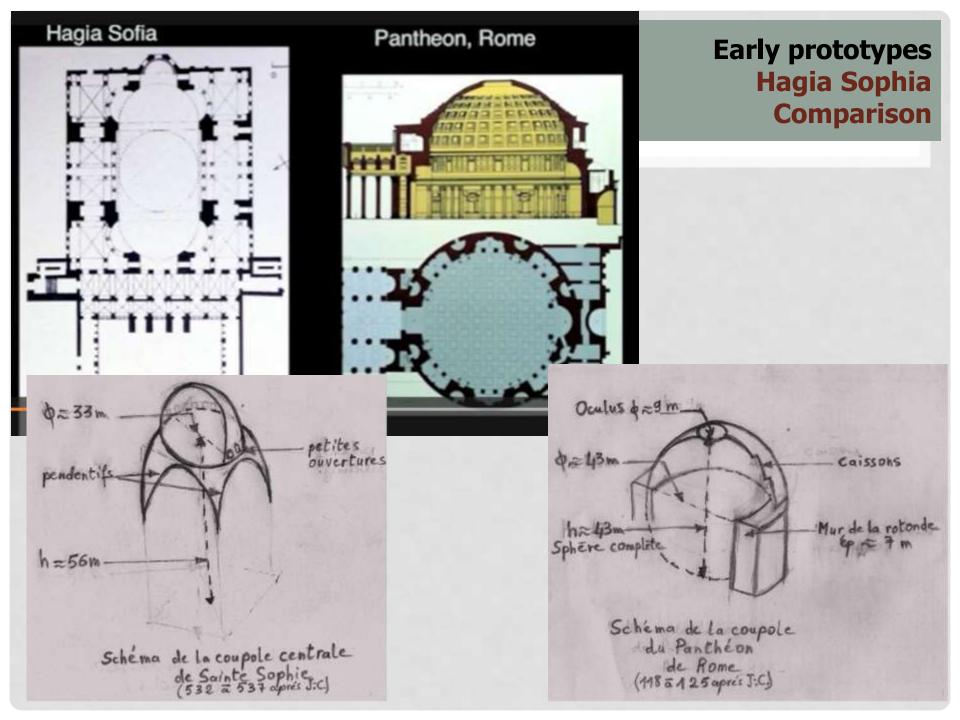
 The pendentive dome and the dome on pendentives provided the Byzantine architects with a unique way of adjusting the circular form of a dome roof to a square or polygonal plan

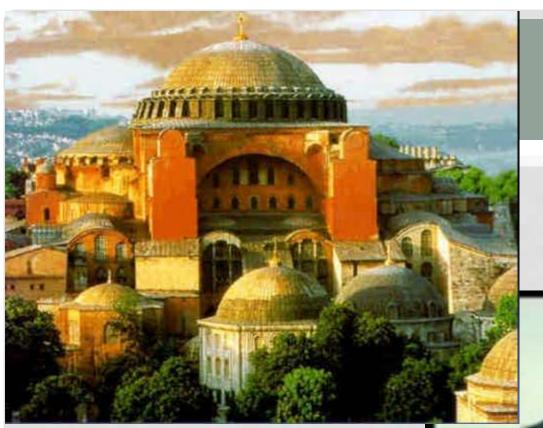


Small domes on squinches and large domes on pendentives

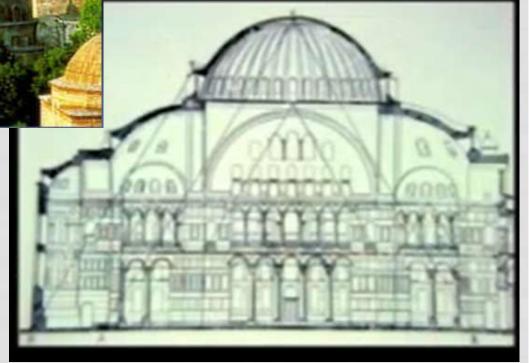
Petits dômes sur trompes et grand dômes sur pendentifs







# Early prototypes Hagia Sophia Pyramidal Facade



Pyramidal arrangement of cupolas

**Early prototypes Hagia Sophia features Interior Ornaments** 

Mosaic in shards of glass / Mosaïque en tessons de verre

**Cubic capitals / Chapiteaux cubiques** 



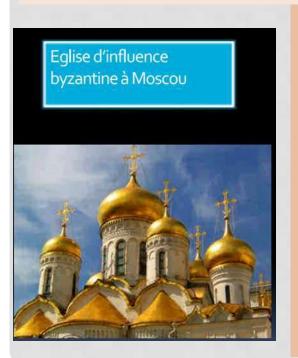
**Use of Gilding / Emploi de la Dorure** 



# **Influence of the byzantine prototypes**

After the Great Schism of 1054, which marked the division between the Roman Catholic Church and the Eastern Orthodox Church, Orthodox cathedrals continued to follow the Byzantine architectural model in regions where Byzantine influence was predominant (Turkey; Balkans: Greece, Bulgaria, Serbia, and Montenegro; Southern Italy: Ravenna; Middle East: Syria, Lebanon, Palestine; North Africa: Algeria, Tunisia, Morocco, Egypt).

However, it is essential to note that the architecture of Orthodox churches has also been influenced by local and regional factors over time.



Après le Grand Schisme de 1054, qui a marqué la division entre l'Église catholique romaine et l'Église orthodoxe, les cathédrales orthodoxes ont continué à suivre le modèle architectural byzantin dans les régions où l'influence byzantine prédominait (Turquie; Balkans: la Grèce, la Bulgarie, la Serbie, et le Monténégro; Italie du Sud : Ravenne; Proche-Orient: Syrie, Liban, Palestine; Afrique du nord: Algérie ,Tunisie, Maroc, Egypte).

Cependant, il est essentiel de noter que l'architecture des églises orthodoxes a également été influencée par des facteurs locaux et régionaux au fil du temps. Mosquée Sultan Ahmed ou Mosquée Bleu



Eglise St. Michael the l'Archange à Kaunas

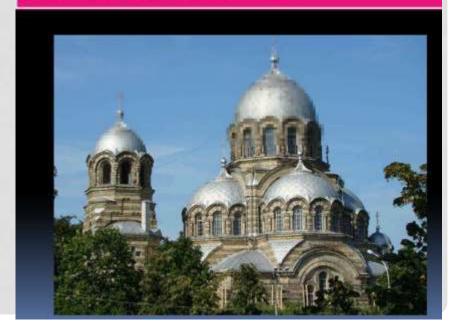


# Influence of the byzantine prototypes



Eglise Du Sauveur Sur Le Sang, Sain...

# Eglise d'influence byzantine à Vilnius



# Astrakhan Temple de St Vladimira en Russie

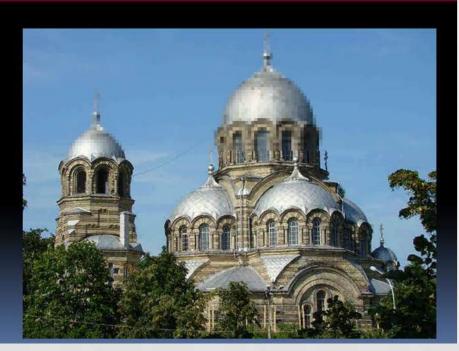


# Influence of the byzantine prototypes

Eglise d'influence byzantine à Vilnius



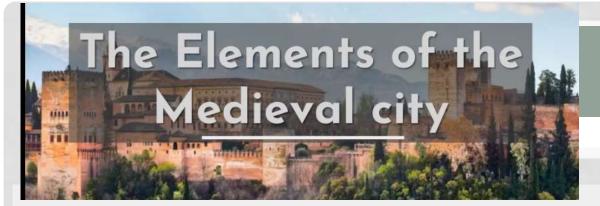
I Imago Mundi : Ency... Saint-Pétersbourg.



# ARCHITECTURE OF THE MEDIEVAL EUROPE ERA

Romanesque and Gothique periods





# |Civic Buildings

Express pride and wealth of a town's inhabitants and are concentrated around and near market place(s).



Town Hall



**Guild Hall** 



Hospital

Always reserved prime site on main market square where their scale and size provides striking contrast to other buildings in the area. - often positioned opposite town church (cathedral) or even secular ruler's castle.

besides church, the most important representative of corporate life to care for old and poor
 set up by holy orders

# Fortifications of the medieval city

# City Walls, Gates, Towers

 -determine outline and general appearance of medieval city
 - give medieval community its strongest characteristic of homogeneity.



Gates



Towers



To defend walls and city and afford the outflanking of enemy (crossfire)

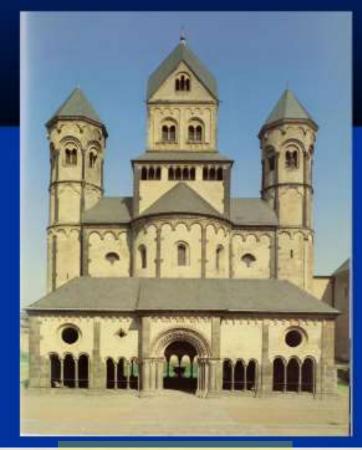
- re-inforce walls structurally
- ballistically represent an advantage as can fire further away

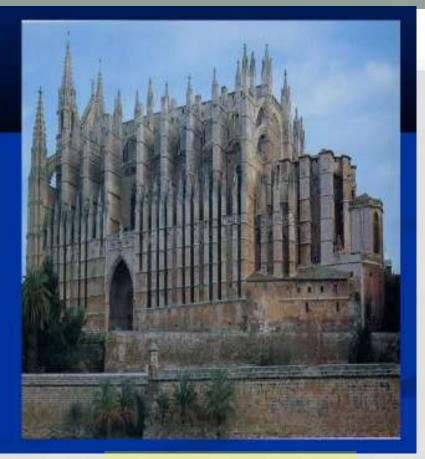
Defend city, people, animals and property

- symbolise to outside world a town's strength & political independence note: destruction of urban wall means loss of freedom
- large proportion of public funds devoted to construct, maintain and extend urban fortifications

- Represent link with the outside world
- major roads lead from gates to other towns etc.
- control and customs point for people and goods
- strategically represent weakness in defensive system, therefore often flanked by towers.

# **European Middle ages Romanesque vs Gothique Architecture**





Romanesque Style 10<sup>th</sup> to 12<sup>th</sup> century

Emerges in Rome, Italy and then spreads throughout all of occidental catholic Europe

Gothic Style

12<sup>th</sup> to 16<sup>th</sup> century

Emerges in Normandy, France and then spreads throughout all of occidental Catholic Europe

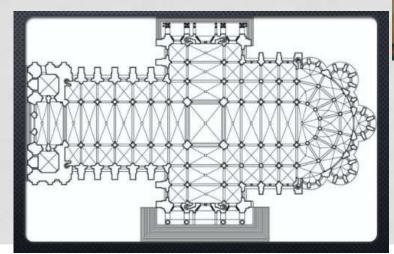
# **European Middle ages Romanesque vs Gothique Architecture**

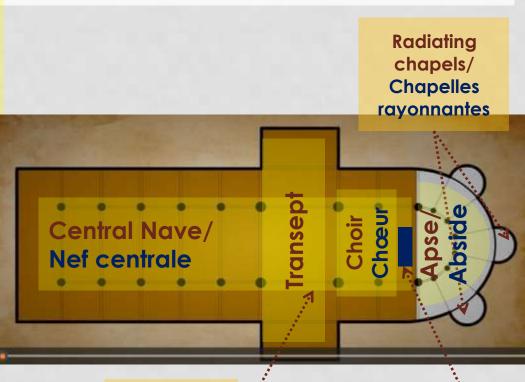
# Common feature:

Basilical longitudinal plan on Latin cross /

Plan basilical longitudinal sur croix latine.

- LATIN CROSS "CRUCIFORM" PLAN
- Long Nave Body of the Church
- TRANSEPT TRANSVERSE ARM





Crossing Square/ Croiséée du transept

Altar Autel

## Euro

Massive and squashed **Light and** slender

**Light and** darkness

# ROMANESQUE

VS

# GOTHIC



AS MEDIEVAL EUROPE EMERGED FROM THE FIGHTING AND

TURMOIL OF THE DARK AGES, TWO MAJOR STYLES OF

ARCHITECTURE DEVELOPED: ROMANESQUE AND GOTHIC, LET'S

LOOK AT HOW THEY DIFFER.

# **FEATURES**





MOOD









#### UNIFIED SPACE

In eliminating interior walls, gothic buildings managed to create a sense of a unified space.

#### LIGHT-FILLED SPACES

Light was not just used to illuminate the interior but rather to allow light to pass through the different colored glass.

## **RIB**

Channeled weight into corners allowing for use of piers to remove thick walls



#### STAINED GLASS WINDOWS

Channeled weight into corners allowing for use of piers to remove thick walls

#### POINTED ARCHES

Pointed arches send weight down straighter allowing for a thinner wall.





Several geometric forms make up the building, rather than one shape.

#### DARK, SOLEMN SPACES

Due to small windows and doors. limited light is passing into the inside of churches.

# BARREL VAULTS

Replaced flat roofs and needed thick heavy walls for support

#### SMALL WINDOWS & DOORS

Wars and invasions were common, so windows and doors were kept minimum.

## ROUNDED ARCHES

**Built with carefully dressed** blocks of stone, such as in Romantheaters, etc.



OPENINGS







# **European Middle ages Romanesque vs Gothique Architecture Main differences / Structure**



# PLAIN, FEW DECORATIONS

On this moldings around the portal of Lincoln Cathedral are tongue poking monsters, abstract figures etc. SANOSA EINGELROSE

## ELEVATION



#### **VAULT SUPPORT**



### SCULPTURE



#### EXTERIOR



## SOARING, VERTICAL LINES

Perpendicular Gothic became a known variation because it emphasized strong vertical lines in many arch, elements.

## EXTERIOR FLYING BUTTRESSES

Flying buttresses allowed tall clerestories to exist that let enormous amounts of light in.

# REALISTIC PROPORTIONS

Its intent was to present the storic of the Bible in vivid fashion to great region of the faithful who couldn't read

# ORNATE, DELICATE

As the style evolved, decorative art tended to supersede thus decorative stonework is added ARCH21S3



Massive and squashed (short)/

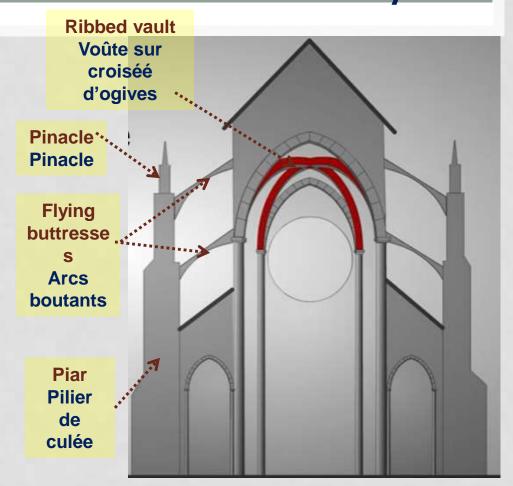
**Light and slender** 

# **European Middle ages Romanesque vs Gothique Architecture Main differences / Arches and vault**

Characteristic	Romanesque	Gothic
Arces		
Vaulting		
Windows		A STATE OF THE STA
Decoration		(a)

## **Romanesque vs Gothique Architecture Structure systems**

Barrel vault on double arches Voûte en berceau sur arcs doubleaux Thick buttresses Contreforts massifs



Romanesque structural system

Gothic structural system

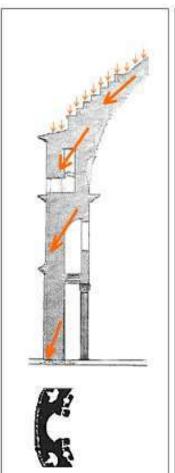
## Romanesque vs Gothique Architecture Structure systems

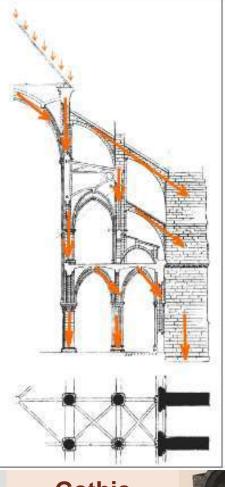
Barrel vault on **Small** double arches windows Voûte en **Petites** berceau sur **overtures** arcs doubleaux Thick buttresses Contreforts massifs

Rib vault Large bays Voûte sur **Grandes** croiséé baies d'ogives Pinacle\* **Flying** buttresse ... **Arcs boutants** Piar **Pilier** de culée

Romanesque structural system

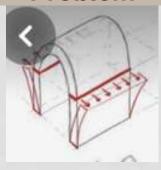
Gothic structural system





**European Middle ages Romanesque vs Gothique Structural solutions** 

### **Problem**

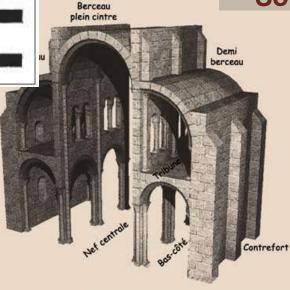


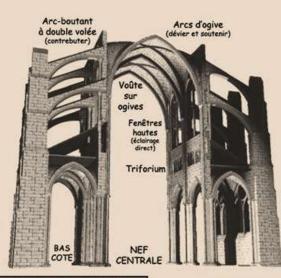
**Solution** 

Romanesque structural system

Gothic structural system

Transmission of loads in both systems/
Transmission des charges dans les deux systèmes

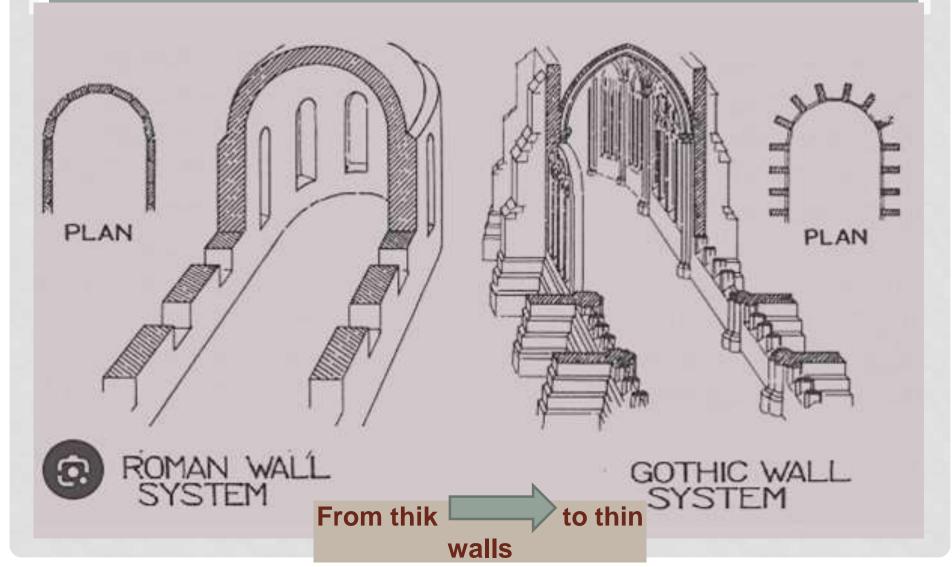




SOLUTION ROMANE

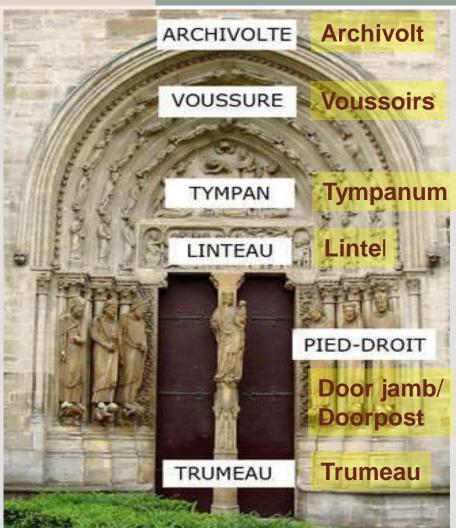
SOLUTION GOTHIQUE

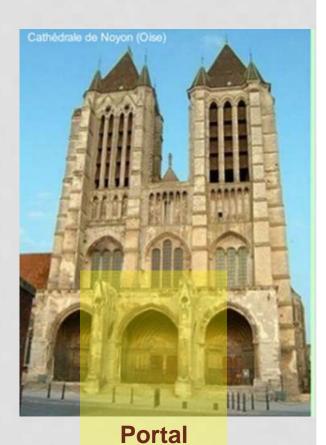
### **Romanesque vs Gothique Structural solutions**



Roman and Gothic portals have common features.

# **European Middle ages Romanesque vs Gothique Roman and Gothic portal**





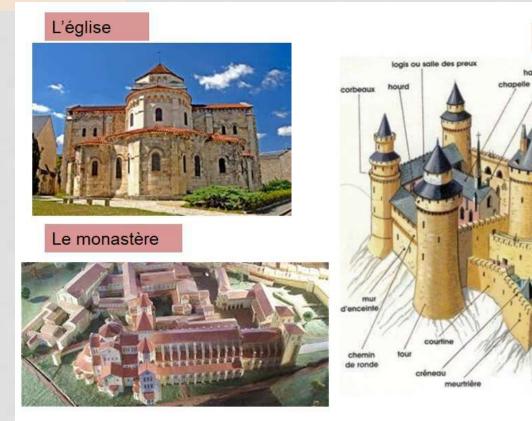
- •The style, sometimes called First Romanesque or Lombard Romanesque.
- •Romanesque building types ---Churches Castles Monasteries Fortified Towns

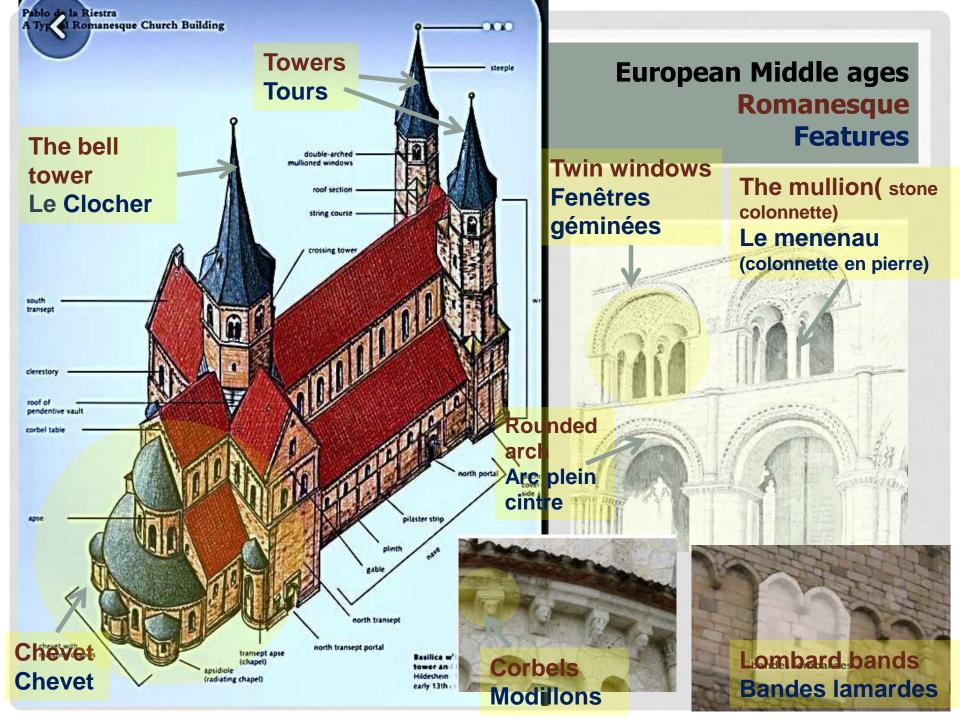
Norman – Romanesque in Britain Ottonian – Romanesque in Germany

## **European Middle ages Romanesque Features**

Le château fort

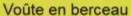
pont-levis





#### Le système de voûtes



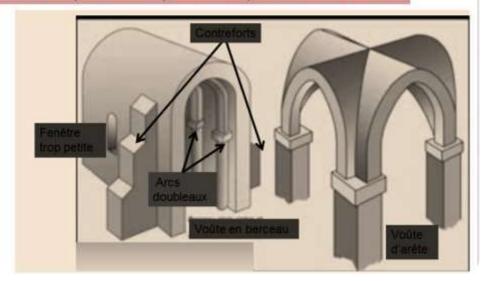




Voûte d'arêtes

# **European Middle ages Romanesque Vault Types**

Toiture voûtée en plein cintre (Voûte en berceau), renforcée par des arcs qui la doublent (arc doubleau), ou en voûte d'arêtes.





### **European Middle ages** Romanesque **ColumnTypes**

Cubique







A godrons(en trapèze)

A bestiaire

Types of capitals

**Engaged** columns and clustered (fasciculated) columns

### SUPPORTS ROMANS













Colonne adossée

Piller carré

Pilier cruciforme

Pilier corré flanqué de colonnes









Support: tout ce qui soutient et supporte une charge: les principaux supports sont la colonne, le pilier et le mur.

PILIER: Tout support, à l'exception stricte de la colonne et du mur.

COLONNE: Support constitué d'un fût vertical, polygonal

ou circulaire, d'une base et d'un chapiteau.

engagée

Pilier fasciculé

Pillier cylindrique flanqué de colonnes

composé



L'abbaye de Cluny en France. Le plus grand monastère de l'Europe au moyen âge

Cluny Abbey, France



Pisa Cathedral, Italy

## **Romanesque Famous Churces**

St. Peter's Church, Cluny, France:

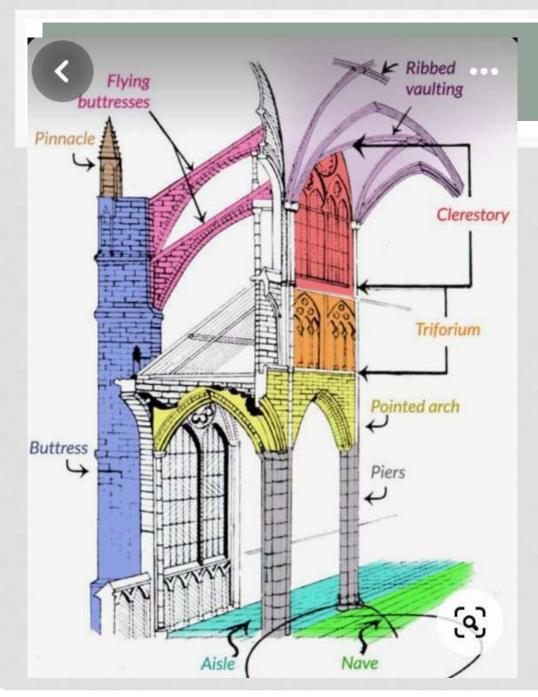
The Cluny Abbey was a center of Romanesque art and architecture, and St. Peter's Church was a significant part of it.

Speyer Cathedral, Germany: A UNESCO World Heritage Site, Speyer Cathedral is one of the largest and most important Romanesque cathedrals in Germany.

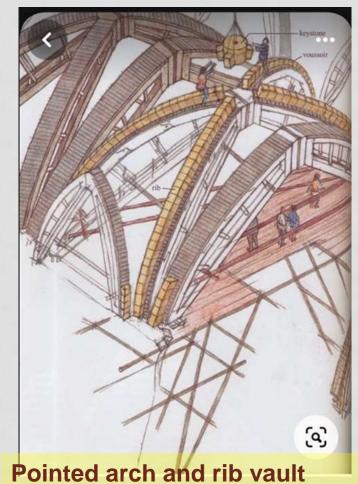
**Durham Cathedral, England:** While primarily Gothic, Durham Cathedral has Romanesque elements, especially in its earlier sections. It is a UNESCO World Heritage Site.

Pisa Cathedral, Italy: The Cathedral of Pisa, part of the Piazza dei Miracoli, is a masterpiece of Pisan Romanesque architecture.

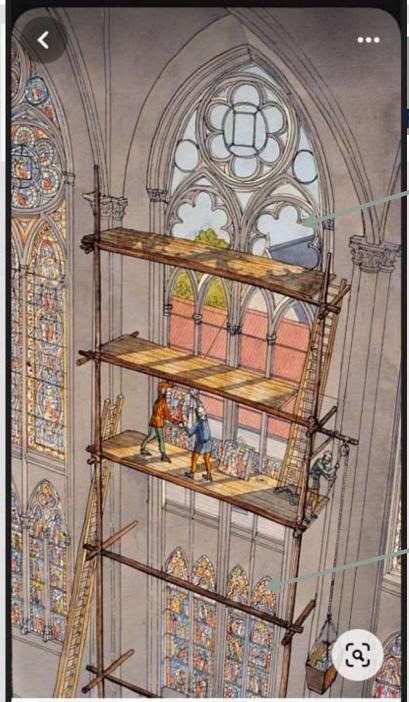
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## **European Middle ages Gothic Features / Structure**



Arc ogival et croisée d'ogives

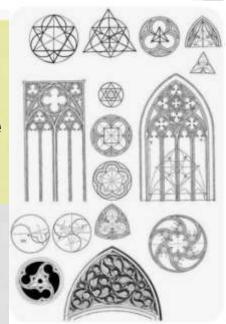


### **European Middle ages Gothic**

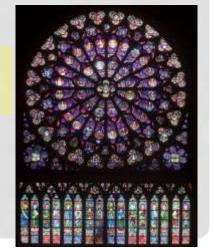
Features / Tracery and Stained Glass

Tracery: carved stone window bar

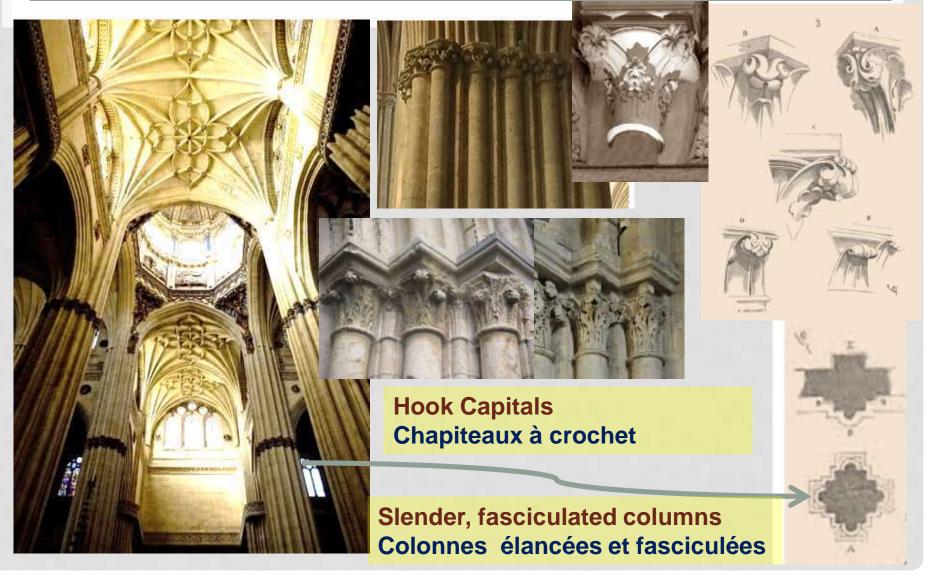
Remplage : barreaudage de fenêtre en pierre sculptée



Stained glass windows Vitrail / Vitraux

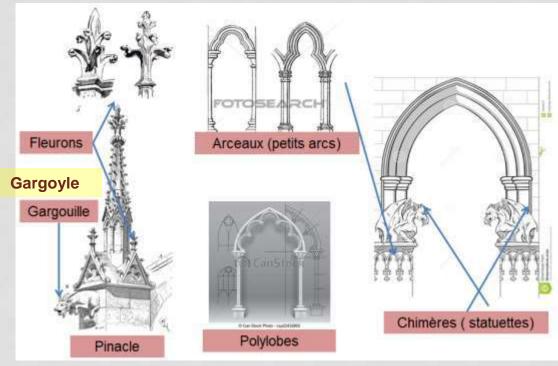


# **European Middle ages Gothic Features / Columns**



# **European Middle ages Gothic Features / Spires and Gargoyles**

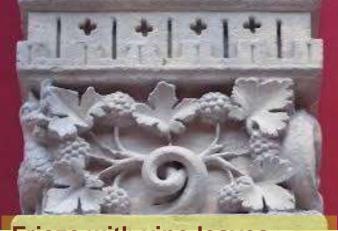




Spire Flèche



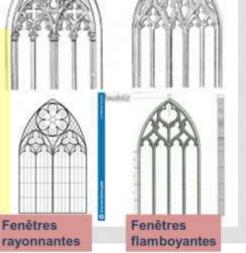
### **European Middle ages Gothic Features / Ornaments Details**



Frieze with vine leaves Frise en feuilles de vignes

Radiant and flamboyant tracery Remplages rayonnants et flamboyants

Fenêtres



**Rose window** Rosace

### Famous examples Gothic Cathedrals Phases of evolution

The "primitive" Gothic, which succeeded Romanesque art around 1130, marked by the introduction of ribbed vaults.

The "classical" Gothic, between 1190 and 1230, featuring flying buttresses as seen in Chartres Cathedral.

The "radiant" Gothic, between 1230 and 1350, characterized by majestic roses and numerous stained glass windows.

The "flamboyant" Gothic, in the 15th century, offering intricate and flamboyant decorations.

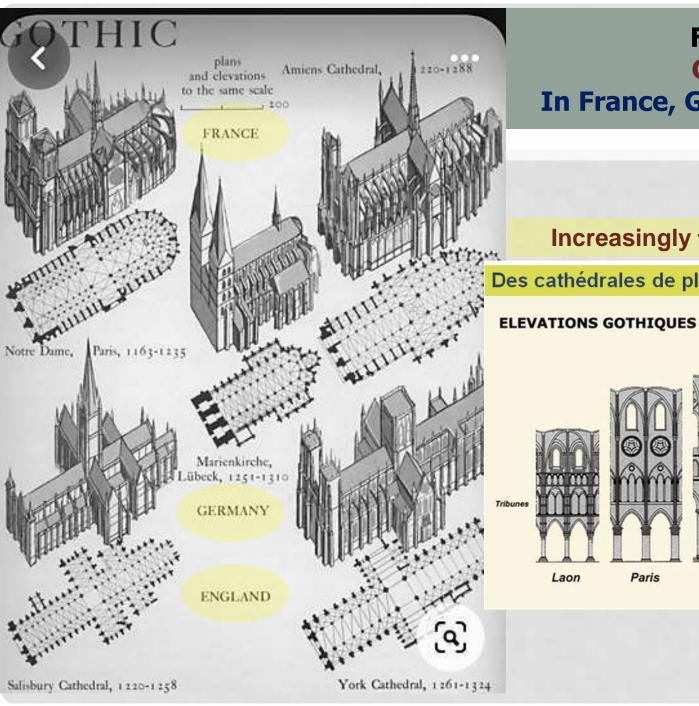
The "late" Gothic in the 16th century, characterized by an abundance of ornamentation.

Le gothique "primitif", qui a succédé à l'art roman vers 1130, avec l'apparition de la voûte d'ogives Le gothique "classique", entre 1190 et 1230, avec des arcs-boutants sur le modèle de la cathédrale de Chartres

Le gothique "rayonnant", entre 1230 et 1350, caractérisé par des roses majestueuses et de nombreux vitraux

Le gothique "flamboyant", au XVème siècle, offrant des décors chargés et tourmentés

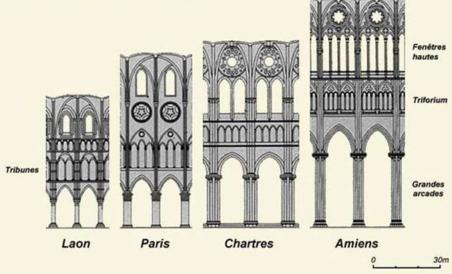
Le gothique "tardif" au XVIème siècle, caractérisé par une surcharge de décorations.



### **Famous examples Gothic Cathedrals** In France, Germany, England

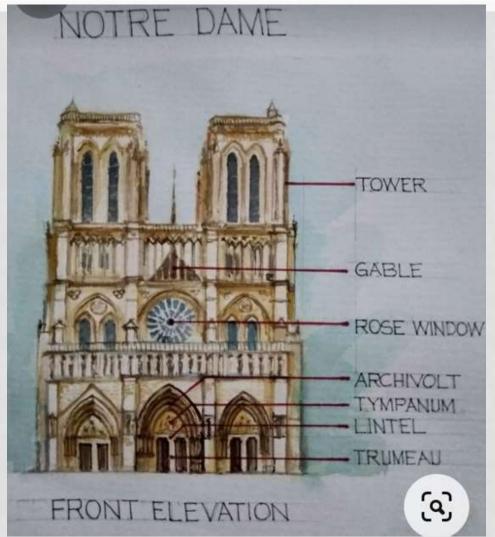
### Increasingly taller cathedrals

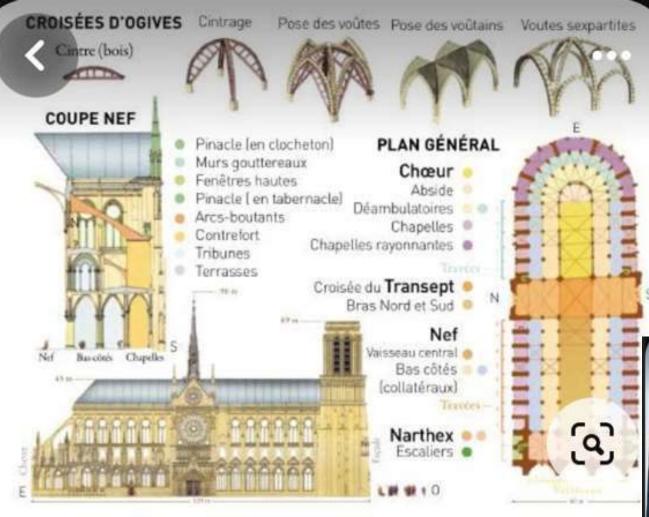
Des cathédrales de plus en plus hautes





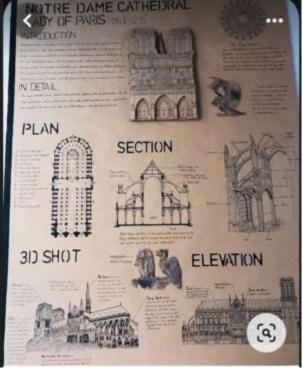
# **Gothique Famous Cathedrals Notre dame de paris**

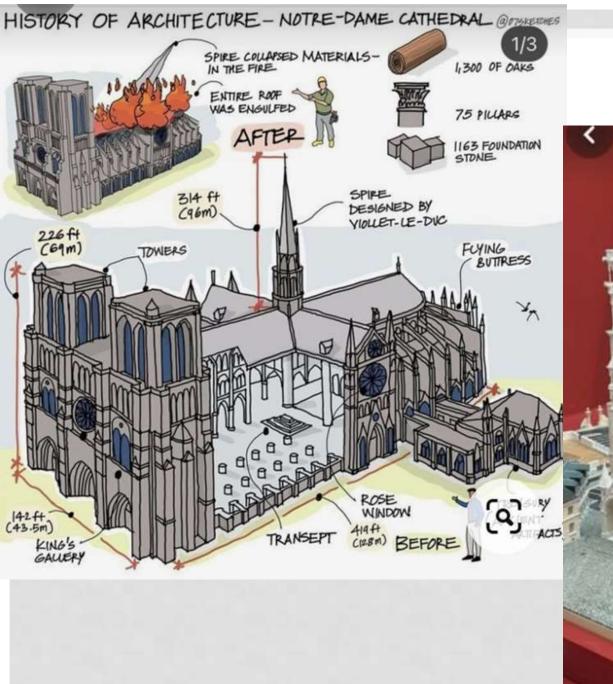




European
Middle ages
Gothique
Famous
Cathedrals
Notre dame
de paris

The Notre-Dame Cathedral in Paris is one of the most iconic examples of Gothic architecture in France. It was built between the 12th and 14th centuries. The cathedral is renowned for its magnificent stained glass windows, gargoyles, flying buttresses, and detailed sculptures.





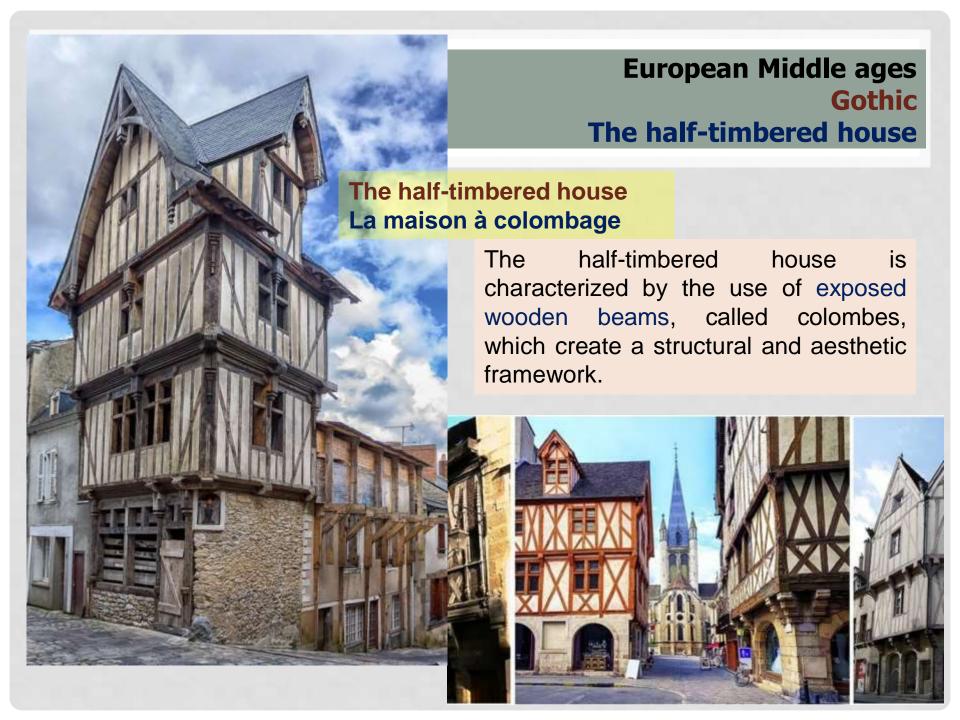
European Middle ages Gothique Famous Cathedrals Notre dame de paris



### North portal Floor Plan Choir and sanctuary **Ambulatory** portal Spire Ribbed vaulting Rose window window Lancets South **Tympanum** portal West portal <u>(</u>α) Elements of a Gothic Church (Chartres Cathedral) Chapter 11, Western Society: A Brief History Copyright @ 2010 by Bedford/St. Martin's Page 269

### **Gothique Famous cathedrals**Chartres Cathedral

The Notre-Dame Cathedral of Chartres, located in France, is a masterpiece of Gothic architecture dating back to the 13th century. It is renowned for its magnificent sculpted facade, exceptional stained glass (vitraux) windows that depict biblical stories, and its imposing spire (flêche).



### **Romanesque and Gothic Later influences**

Les périodes après renaissance vont mixer les influences antiques, byzantines, romanes et gothiques en même temps.

(La période Renaissance a méprisé l'art gothique qui était considéré comme étranger à la tradition antique grécoromaine.).



Apparition du style néogothique au 18° s :Le style néogothique est un style architectural né au milieu du xviiie siècle en Angleterre. Au xixe siècle, des styles néogothiques de plus en plus rigoureux et documentés visent à faire revivre des formes médiévales qui contrastent avec les styles classiques dominants de l'époque. Le mouvement néogothique (appelé aussi « Renaissance gothique », sur le modèle anglais du Gothic Revival) a eu une influence importante en Europe et en Amérique du Nord et il y a peut-être eu davantage d'architecture gothique construite aux xixe et xxe siècles qu'à la fin du Moyen Âge et au début de la Renaissance.

La cathédrale du Sacré-Cœur (actuellement bibliothèque) est un édifice religieux catholique de style romano-byzantin sis à Oran, en Algérie . La cathédrale fut édifiée de 1903 à 1913.



**European Middle ages Romanesque and Gothic Later influences** 

Influences de l'art roman: les deux tours, le portail, l'arc plein cintre.

Influences de l'art gothique: les voutes sur croisées d'ogives, rosaces en façades.

inachevée d'Antonio
Gaudi: La Sagrada
Familia\_ Barcelone\_
Espagne.

Construction entamée en 1882.





Hauteur impressionnante, flèches, croisées d'ogives, rosaces, vitrail.

### **Video Link**

https://www.youtube.com/watch?v=7TTVft2t2Yo

**History of Arch Lecture 11 Byzantine Architecture** 

https://www.youtube.com/watch?v=9pXIw 3FIFg

**Romanesque Art and Architecture** 

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

Differences between Romanesque and Gothic Architecture | Medieval Art History