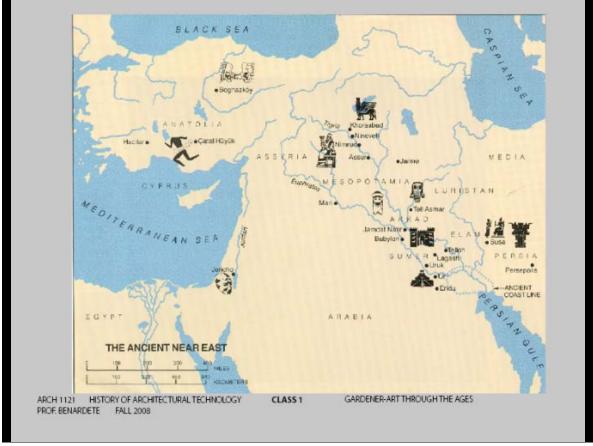
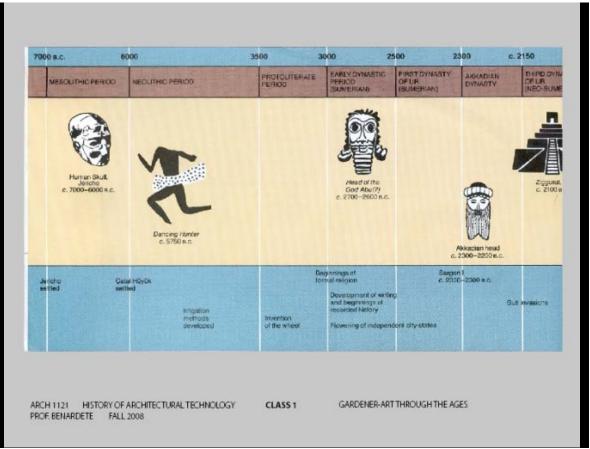
WELCOME TO ARCH 1121-HISTORY OF ARCHITECTURAL TECHNOLOGY

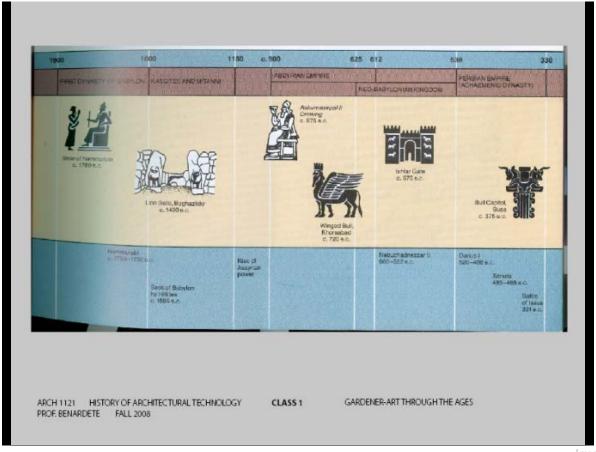
1.PLEASE TURN OFF CELL PHONES FOR ENTIRE DURATION OF CLASS 2.PLEASE TURN OFF ALL IPODS, WALKMANS, ETC.
3.PLEASE NO EATING OR DRINKIING DURING CLASS 4.PLEASE BE CONSIDERATE OF OTHERS-RESPECT IS KEY TO YOUR PROFESSIONAL CAREERS & DAILY LIVES.

ARCH 1121 HISTORY OF ARCHITECTURAL TECHNOLOGY PROF. BENARDETE FALL 2008



CLASS 1





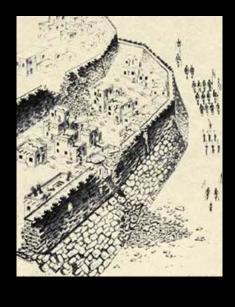
Jericho (modern Jordon)-7500BCE

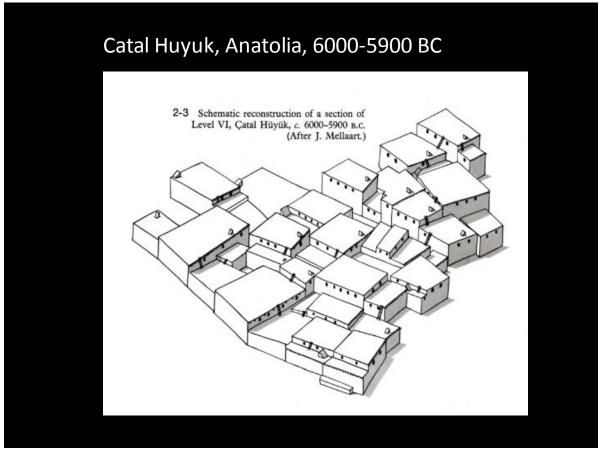
Ancient city surrounded by a 14' high wall and 10' thick

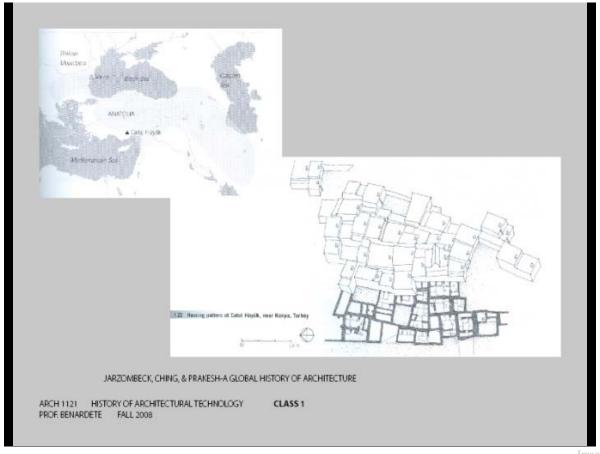
A tower was 25' tall – a lookout for invaders

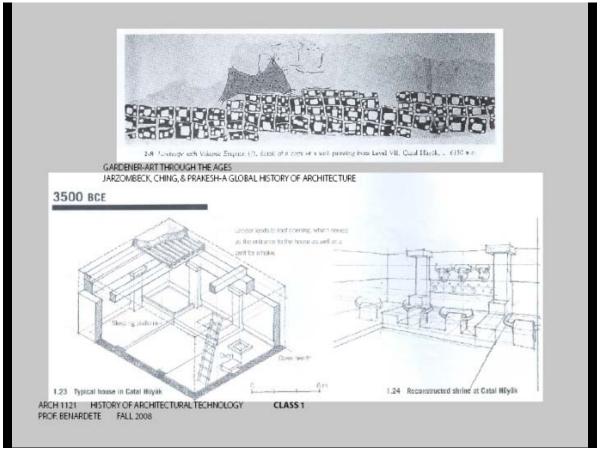


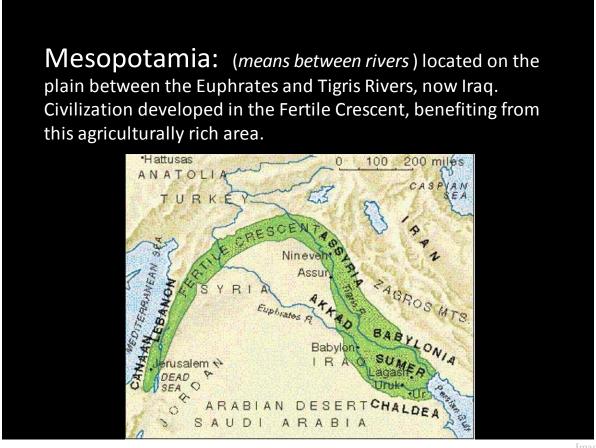
Jericho



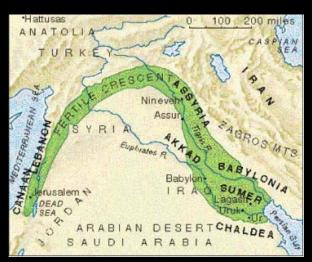








Sumer: Early Sumerian culture developed and peaked in 3,300 BC. Lacking timber and stone, they used sun-dried mud bricks. These brick were structurally weak, so walls were made very thick.



Sumerians developed the first known written language.

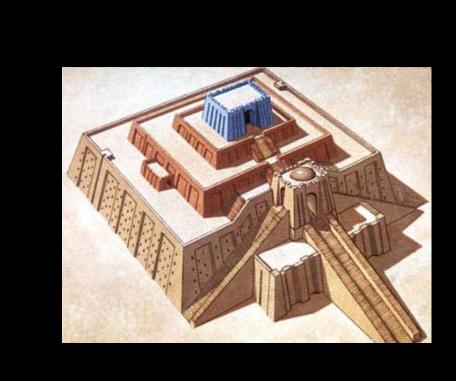
This was important for passing knowledge from generation to generation, and has been essential to the development of Civilization. The cuneiform script was first used for administrative records around 3100 BC.

Also, the Sumerians introduced new forms of art, monumental architecture, and politics to Mesopotamia.

Architecture of Sumer: With only sun-dried mud bricks, they erected massive towers. These structures were the first monumental buildings designed.

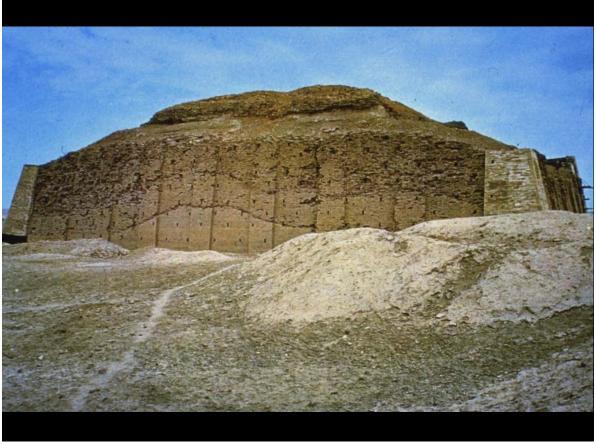
The Ziggurat was the major invention of the Sumerians. It is an imposing terraced tower with up to seven layers that rose over the newly settled cities. There was a temple on the summit. The king climbed the ziggurat to be with the gods. The Ziggurat also gathered together the central economic and administrative functions of the city.



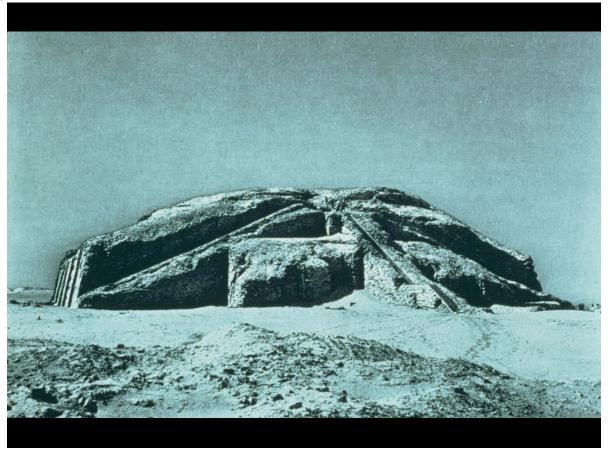


50 feet tall





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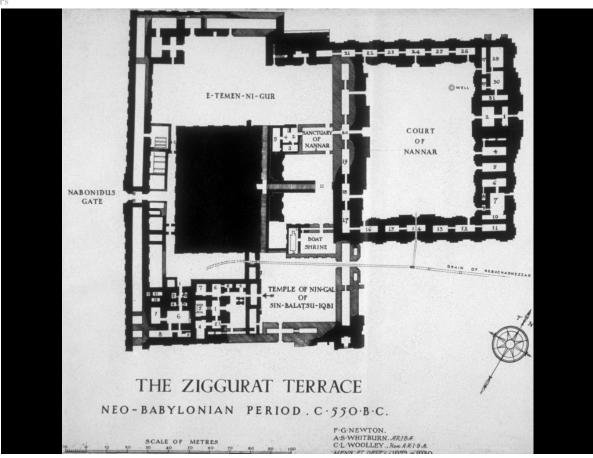


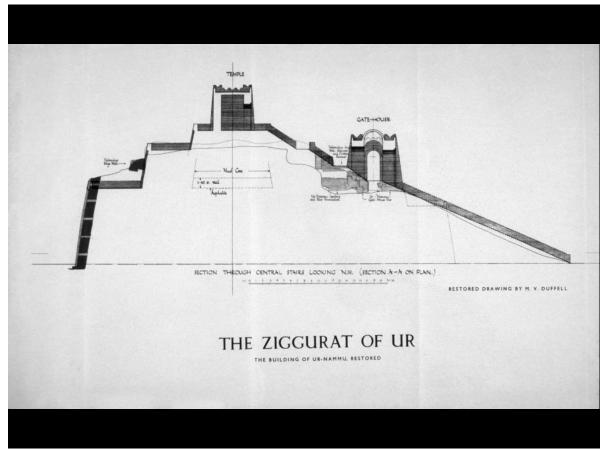
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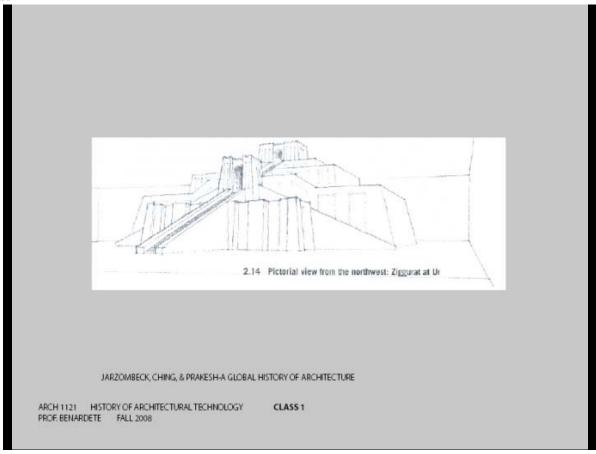


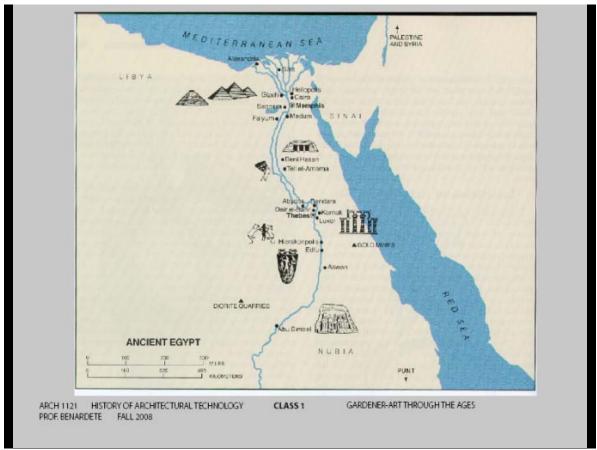
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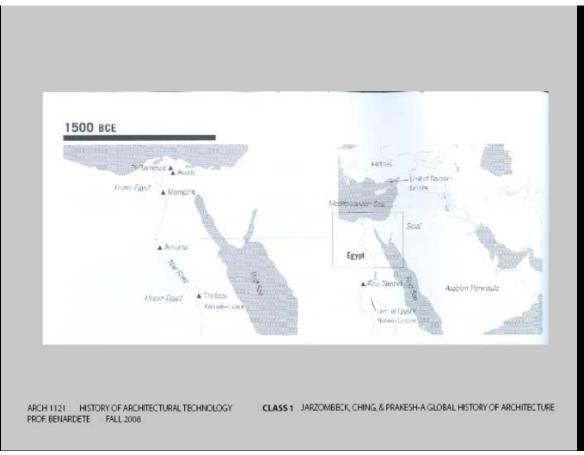


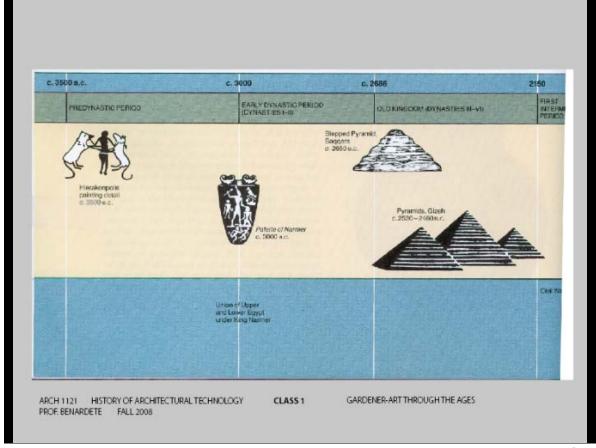


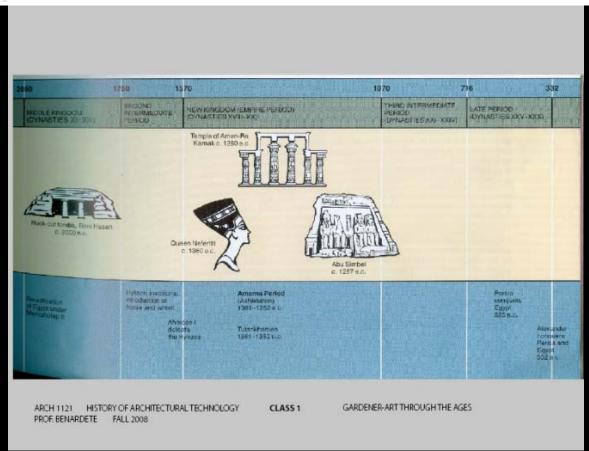
Meso egypt.prs











Egypt: Ancient Egypt thrived for over 3000 years (3100BC-30BC).

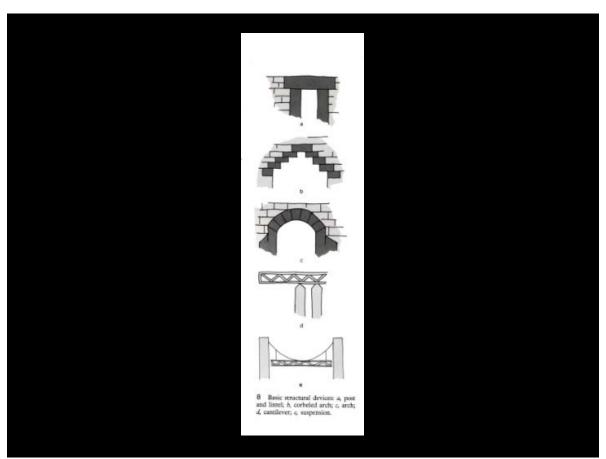
Flat plains of the desert and the Nile were the setting for the great architecture of the ancient Egyptians.

Ancient Egypt was a highly advanced civilization where the kings, known as pharaohs, were believed to be gods or the Messenger of the gods.

Egyptians believed that immortality for the pharaohs depended upon adequately providing for the deceased.

Egypt's contribution to architecture:

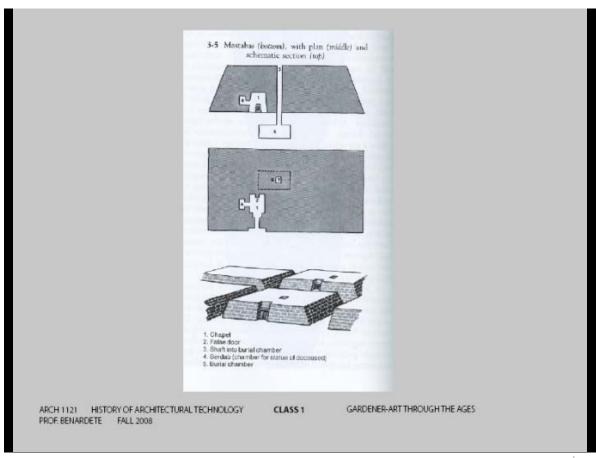
- The first large scale dressed stone buildings
- Pure geometric forms such as the pyramid
- Fine craftsmanship
- Invention of the column, obelisk, capital, cornice, & pylon



Mastabas:

- Mastabas were the beginning of the pyramids
- means "bench" in Arabic
- It was a flat topped rectangular tomb
- First made of sun dried bricks and later solid rock, with shafts and passages leading to subterranean crypt





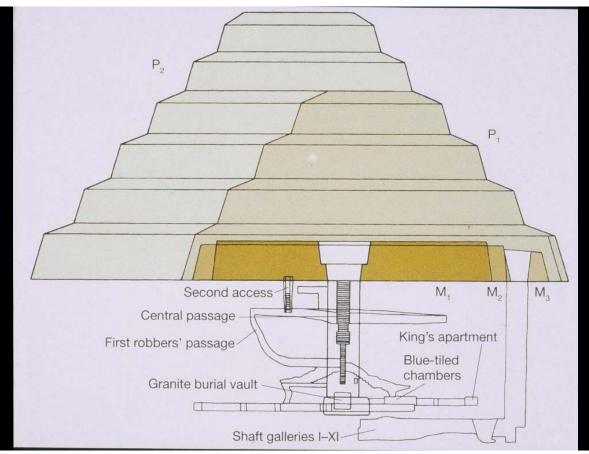
Stepped Pyramid of Zoser: (2778 BC)

- Designed by Imhotep 1st known Architect
- Receding stack of 6 stone mastaba rising over 200' high
- Tomb for King Zoser
- Image of stone stairway rising to the heavens



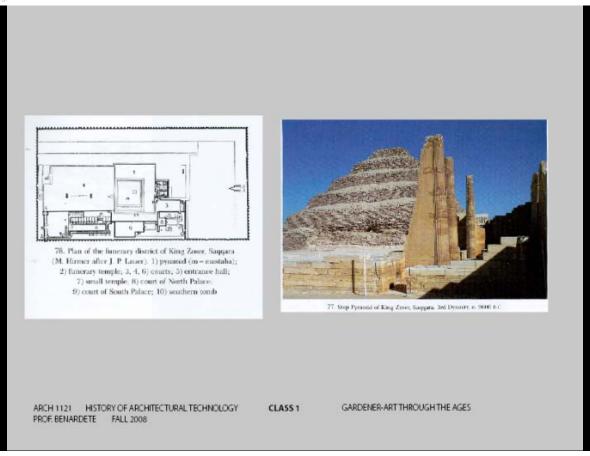


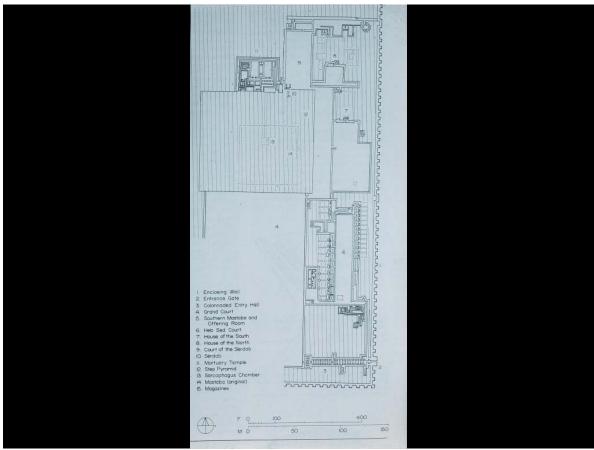


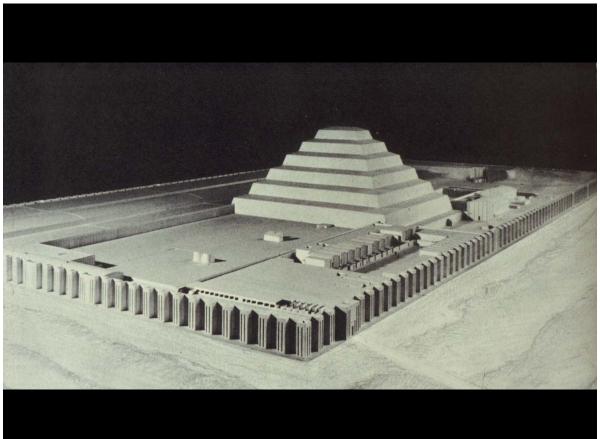


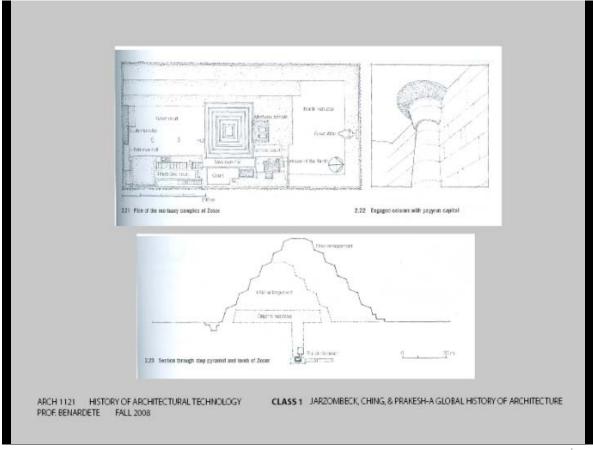
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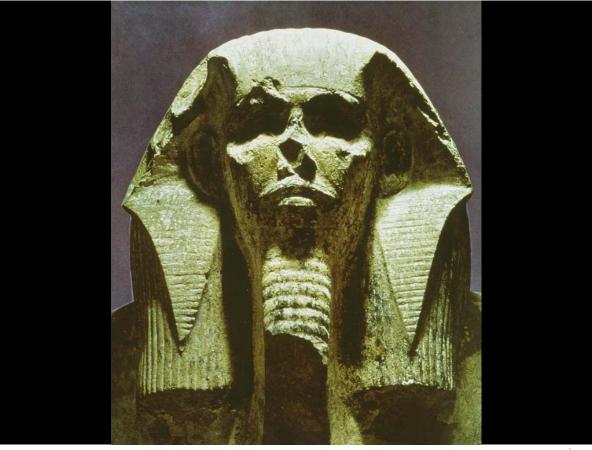






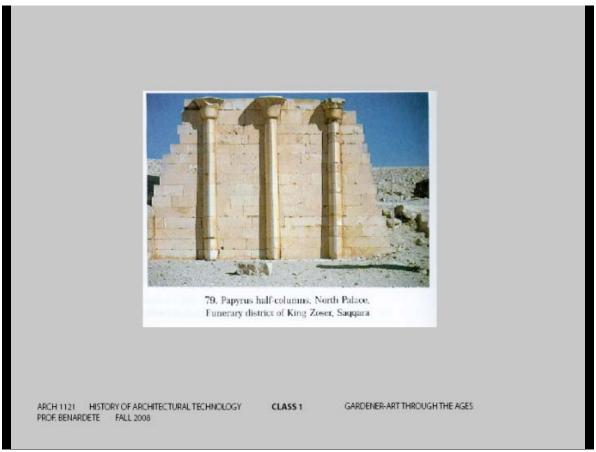




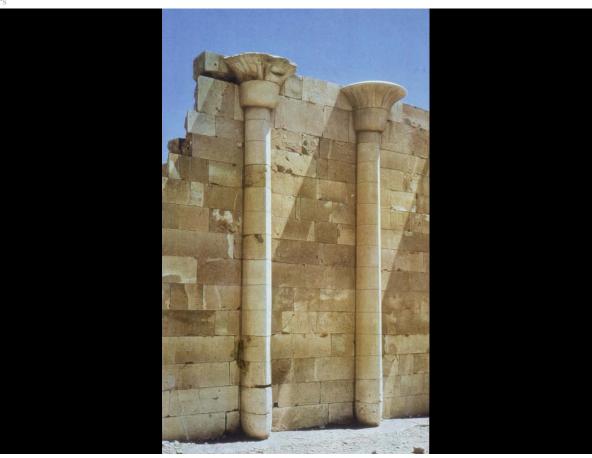


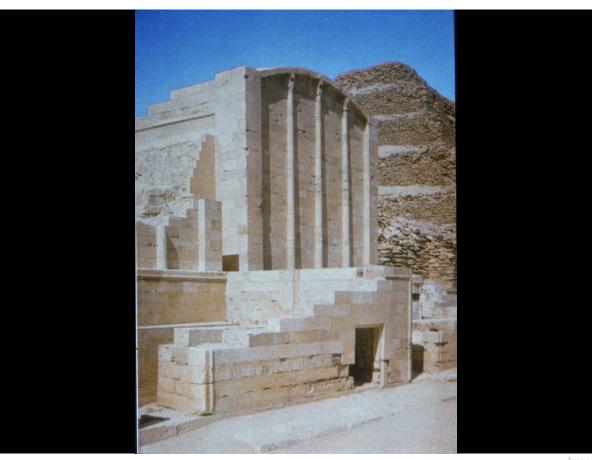
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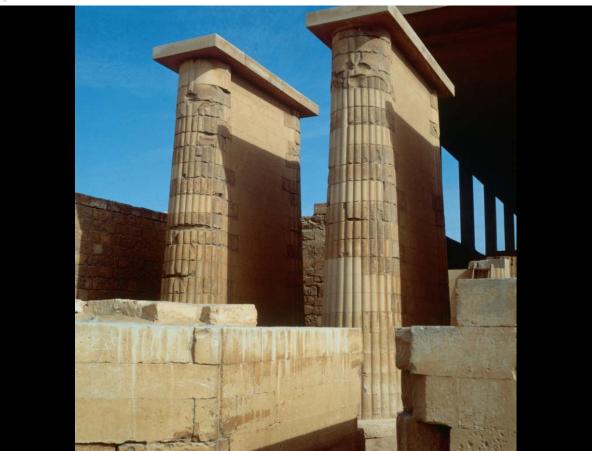


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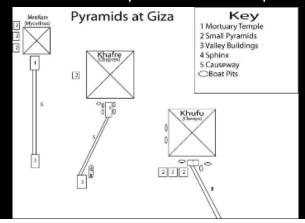


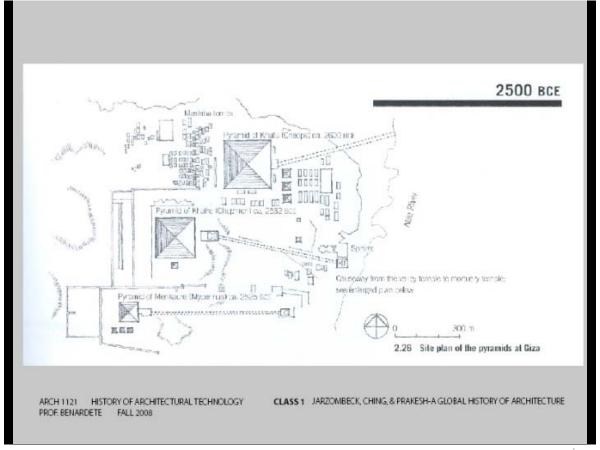


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Great Pyramids of Giza: (2560BC)

- Built for Pharaohs Cheops, Chephren and Mycerinus
- Four equilateral triangles, base is exactly squared
- Originally encased in white limestone with a gold capstone
- Each side oriented to a point of the compass



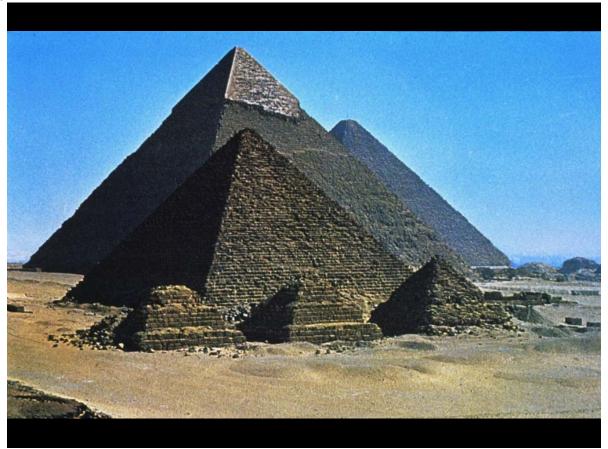


Man fears Time, yet Time fears the Pyramids Arab proverb

Great Pyramid: (Cheops, 2589-2566 BC)

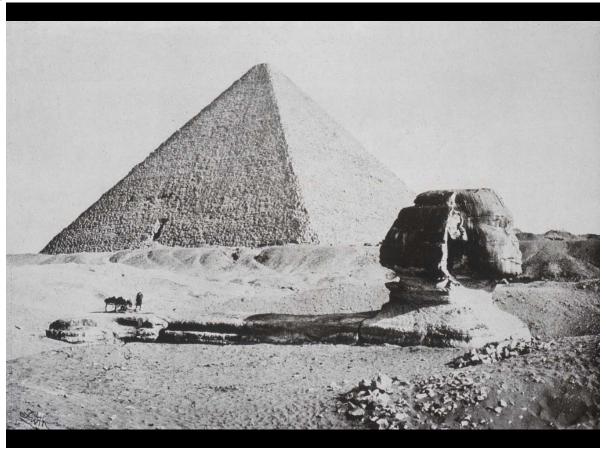
- 2,300,000 blocks of granite and limestone
- Each block weighing 2 tons = 4000 lbs
- Stacked 201 tiers = 481'high
- Base is 13 acres square







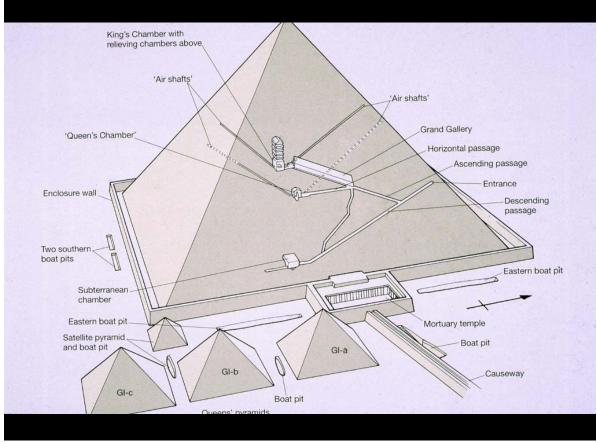
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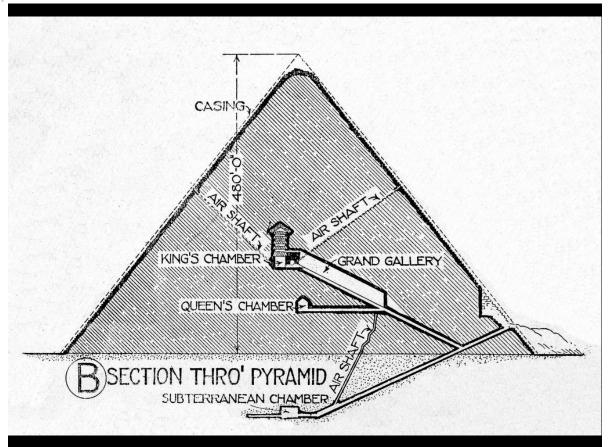


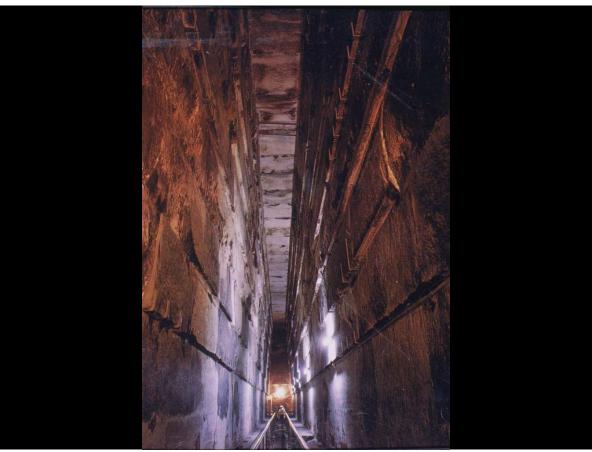


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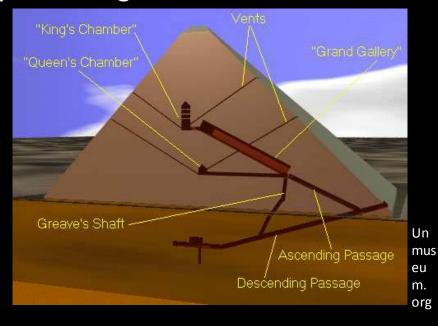
Pyramid Construction

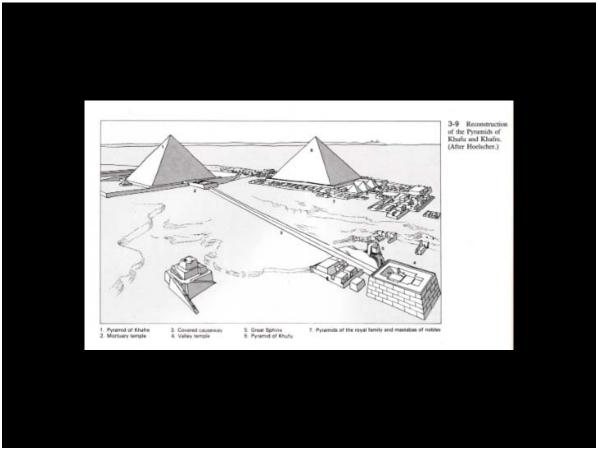
- When the Nile flooded each Fall, the farmers became able to help with labor of the pyramids
- Used the Nile to float the stones on barges from the quarries
- Also used huge earthen ramps that wrapped around the pyramids. They were removed after completion.

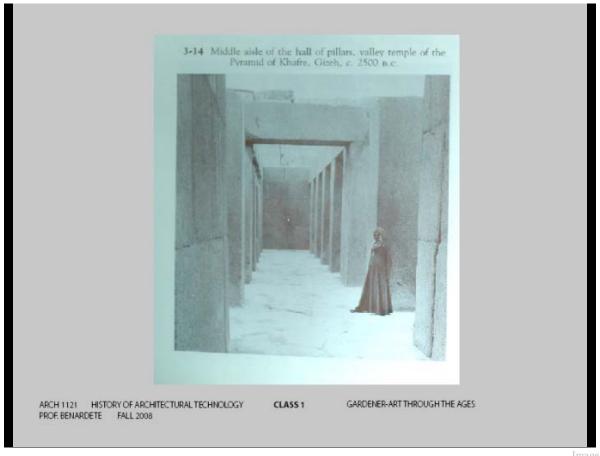


- A partitioned ceiling with triangular arches deflects loads

Pyramid Organization







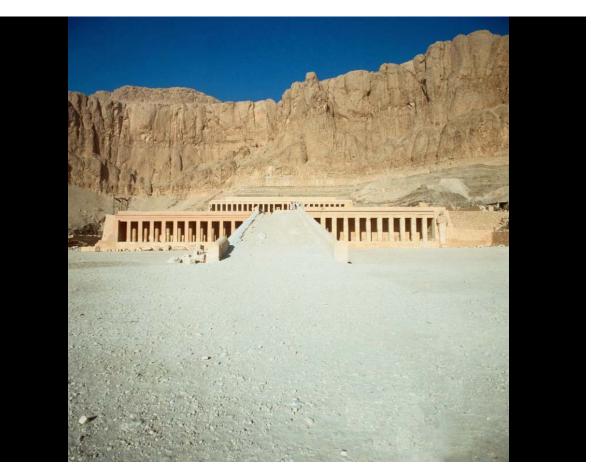
Temples: "House of Death"

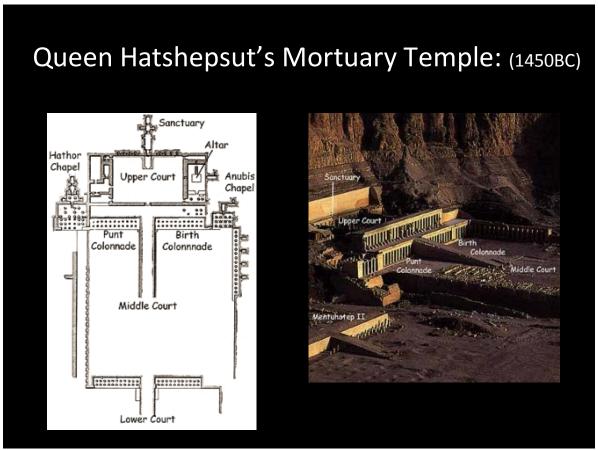
- Pyramids were continually being looted by grave robbers
- Pharaohs created mortuary temple complexes with tombs cut directly in the cliffs

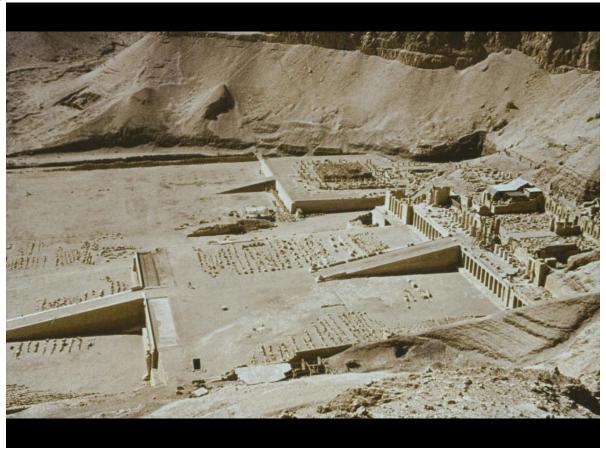
Queen Hatshepsut's Mortuary Temple: (1450 BC)

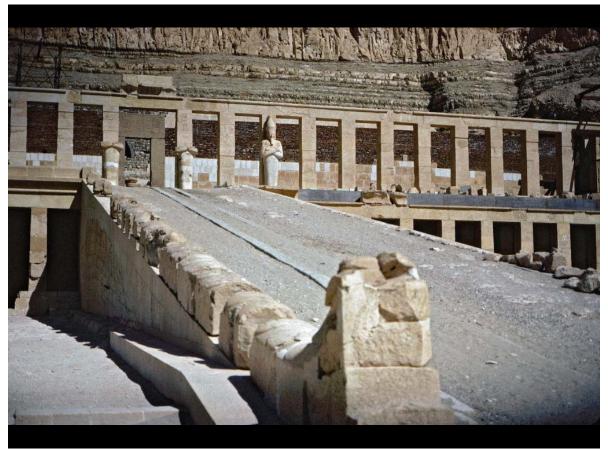
- This temple breaks with traditional Ancient Egypt Architecture Colonnaded limestone terraces, linked with gentle sloping ramps, set in the mountains



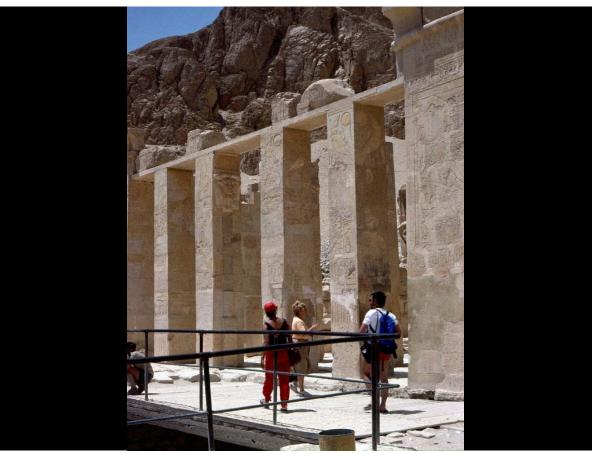




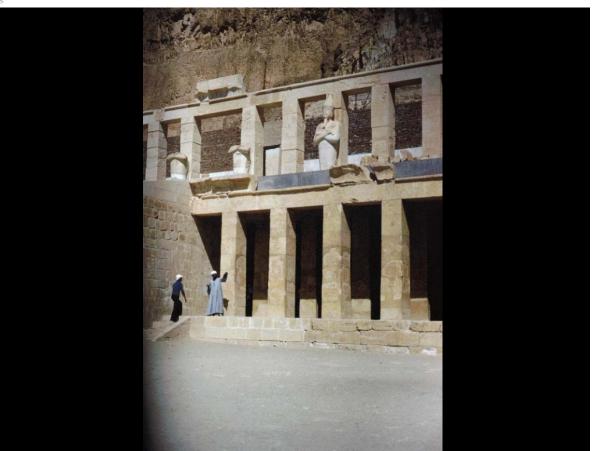


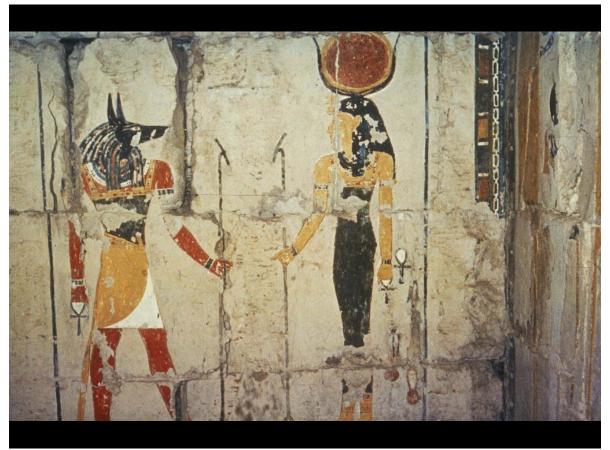


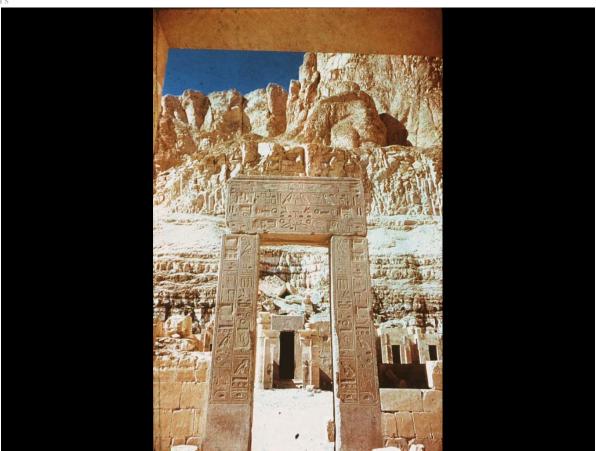




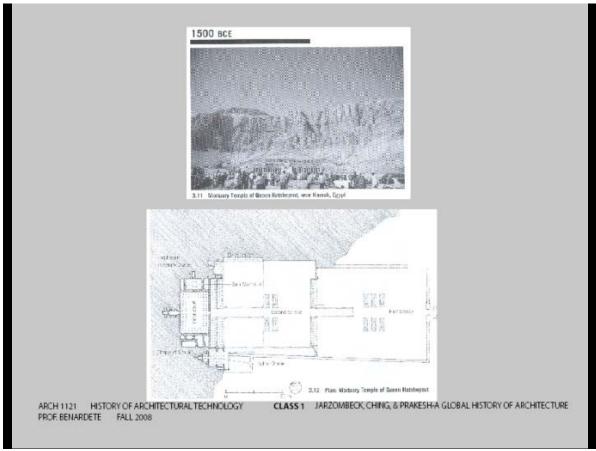
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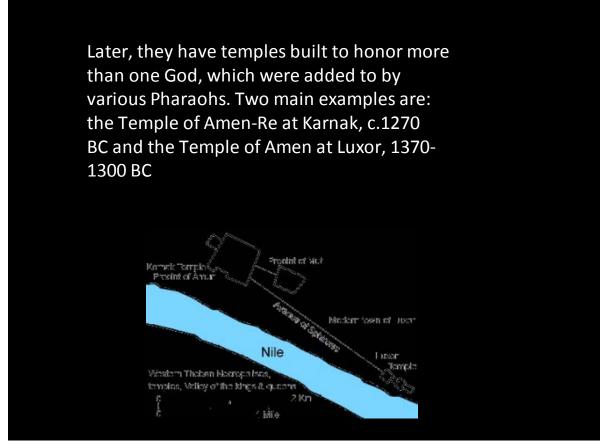


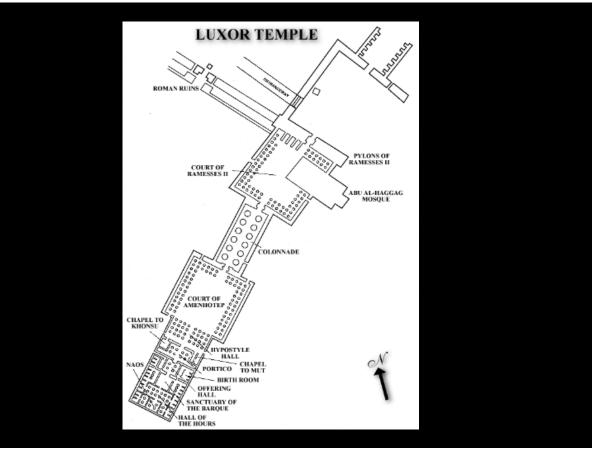




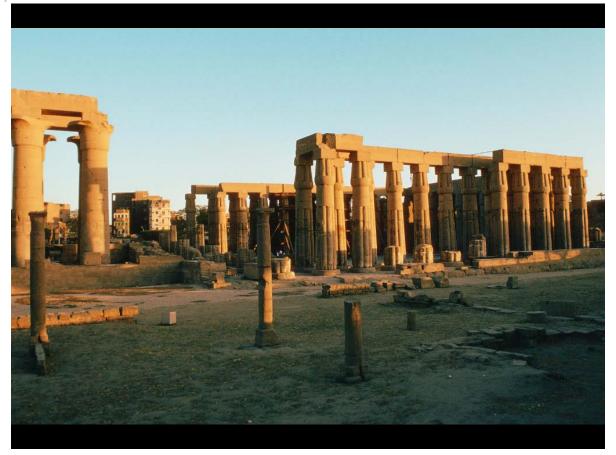




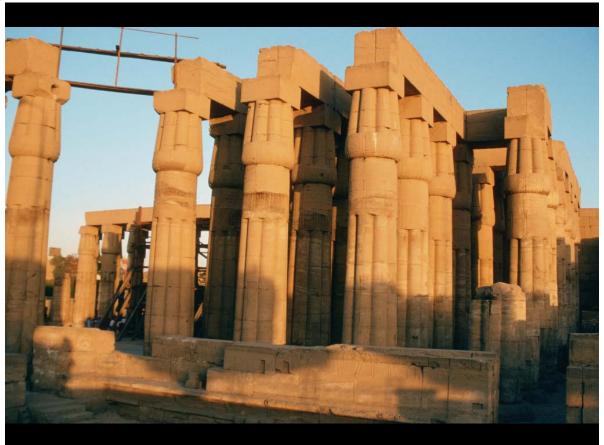




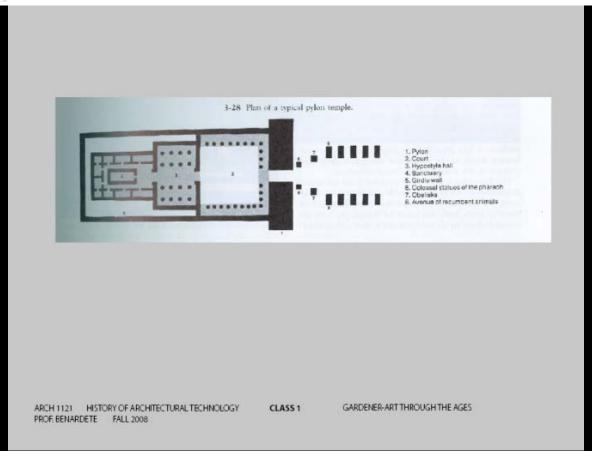


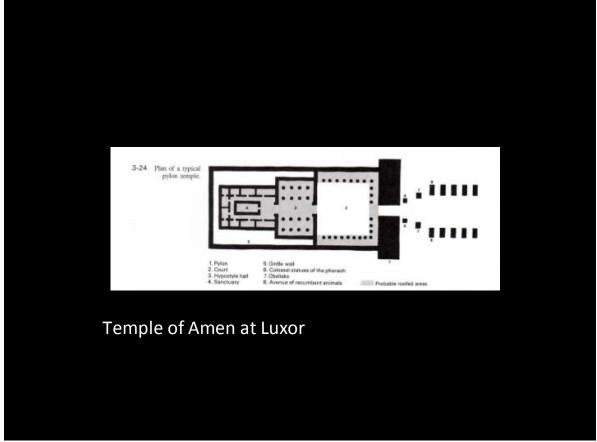


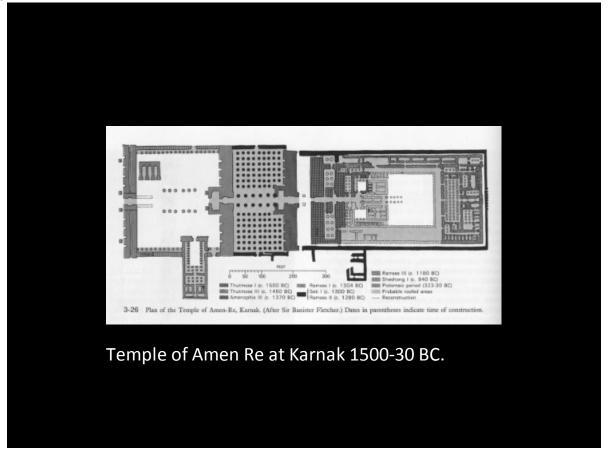


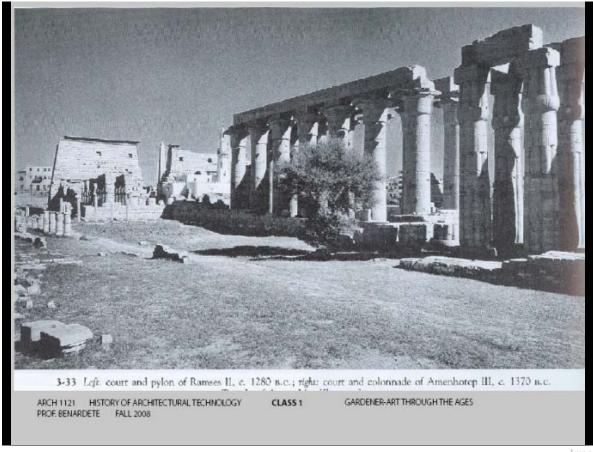


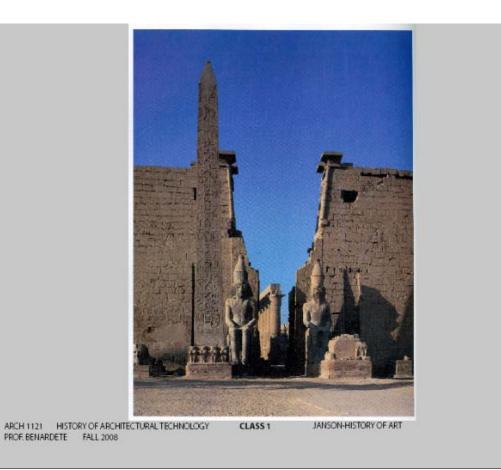


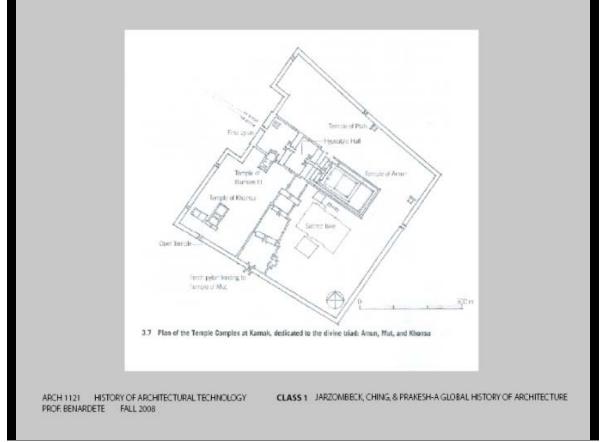










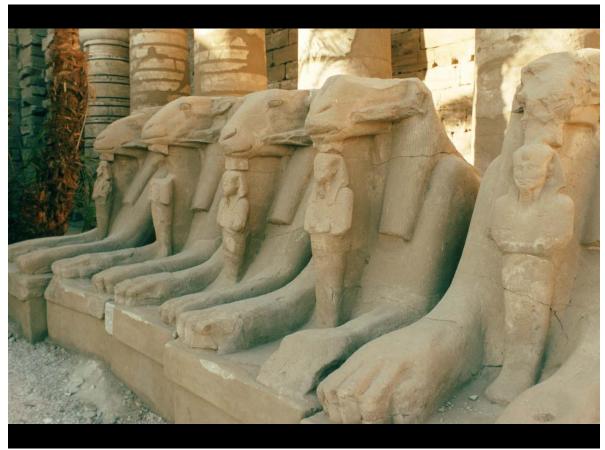


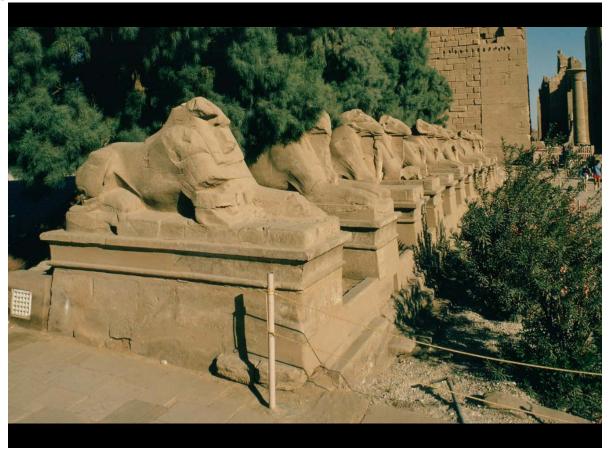




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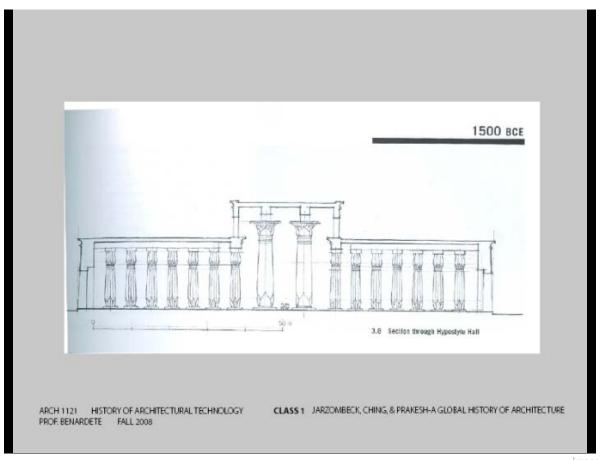






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Temple of Amen at Luxor, 1370-1300 BC.

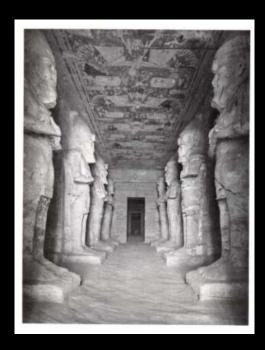
Closed papyrus buds capitals

Hypostyle Hall – "resting on pillars"



Temple of Amen-Re at Karnak,1280-323 BC.

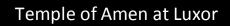
12' thick and 69' high



Temple of Amen-Re at Karnak,1280-323 BC.

Obelisks:







Temple of Amen at Karnak

Pylons:



Temple of Amen at Luxor

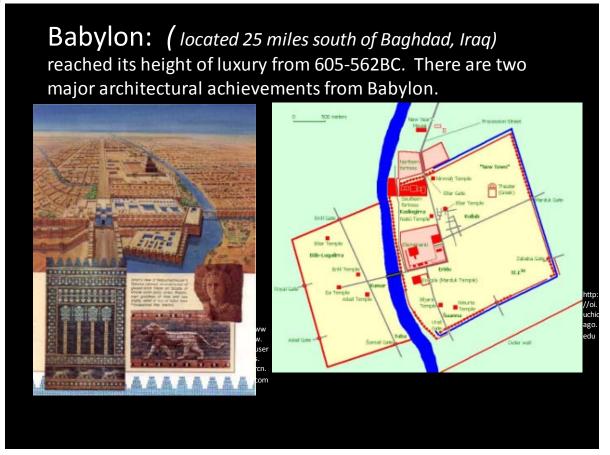


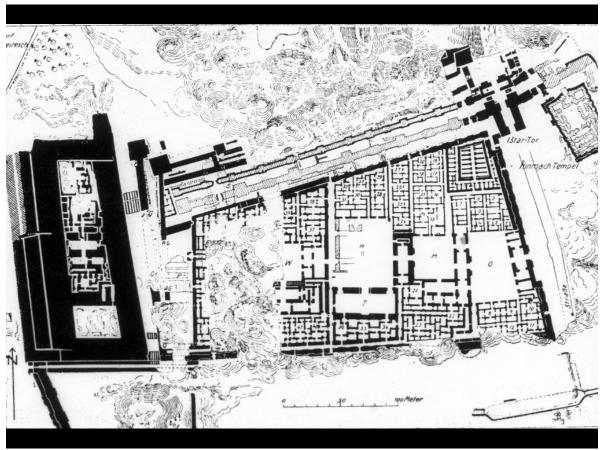
Temple of Amen at Karnak

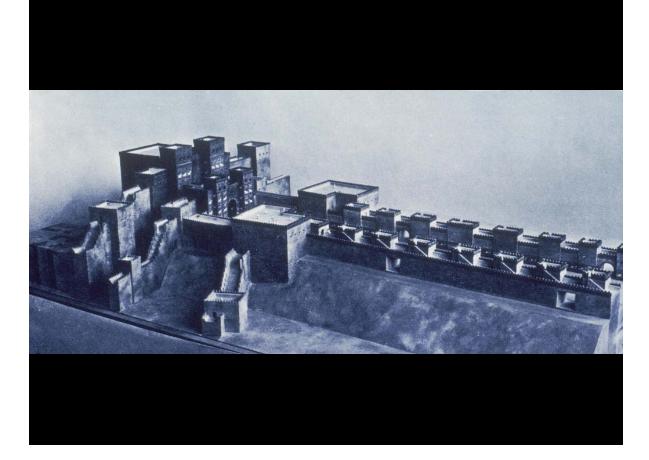
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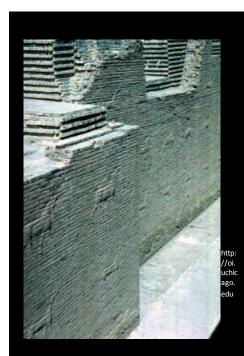
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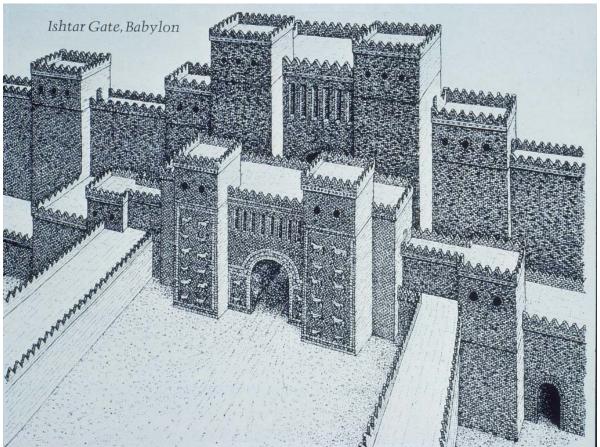


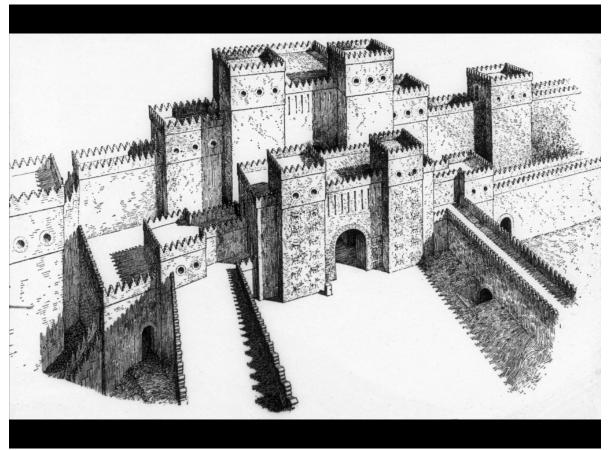


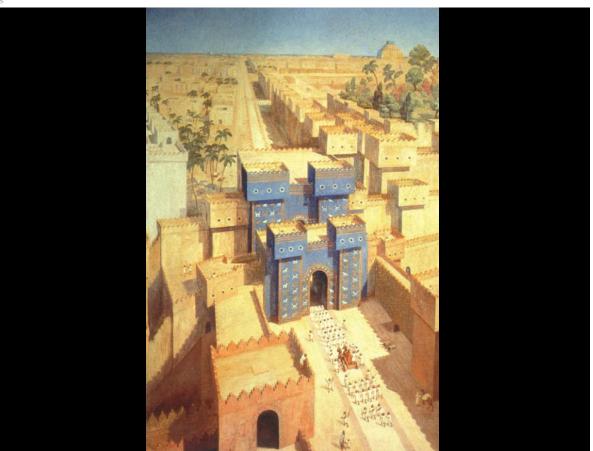


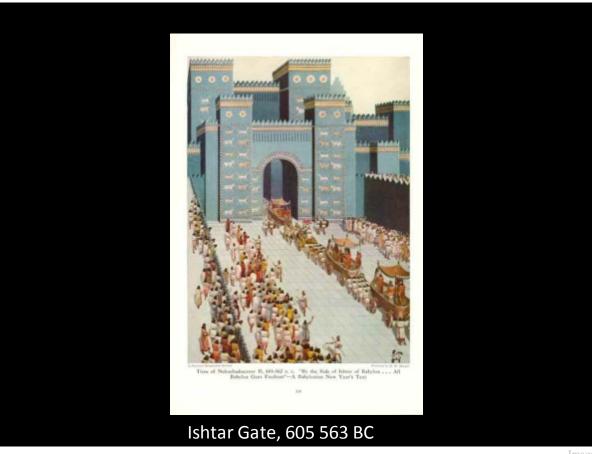
Ishtar Gate-23' high decorated with blue and red tiles with gold relief enamels of lions

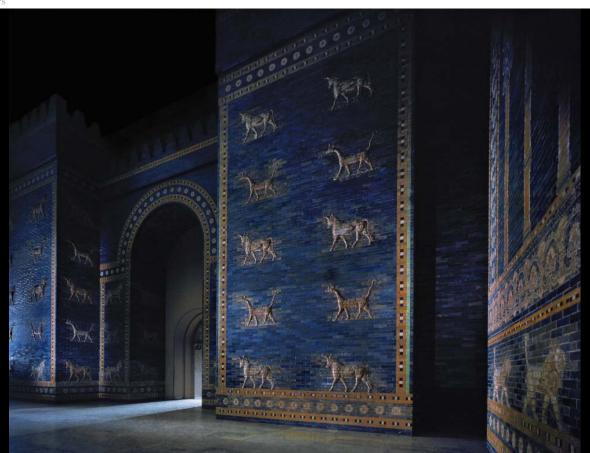
The Processional Way-73' long running North to South, paved with white limestone and pink marble.

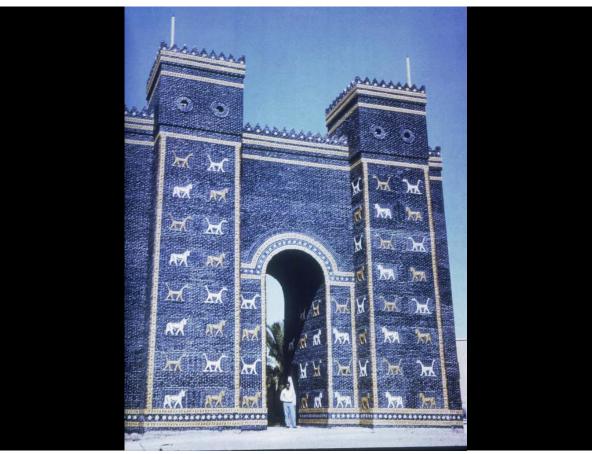




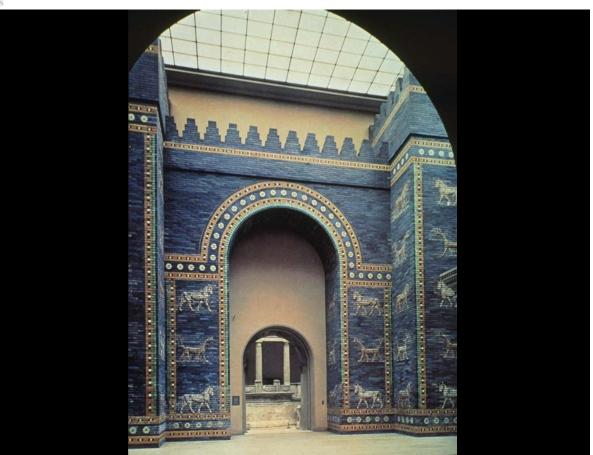


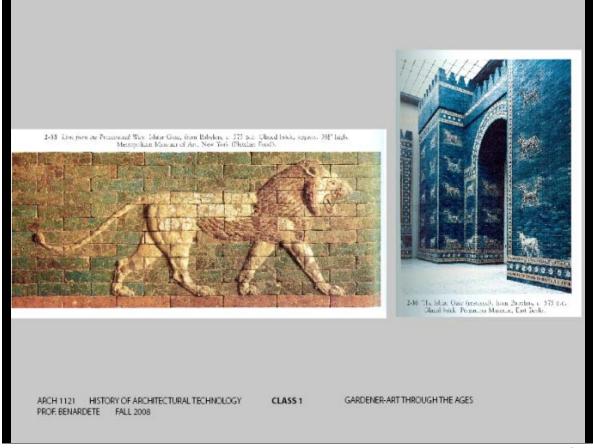






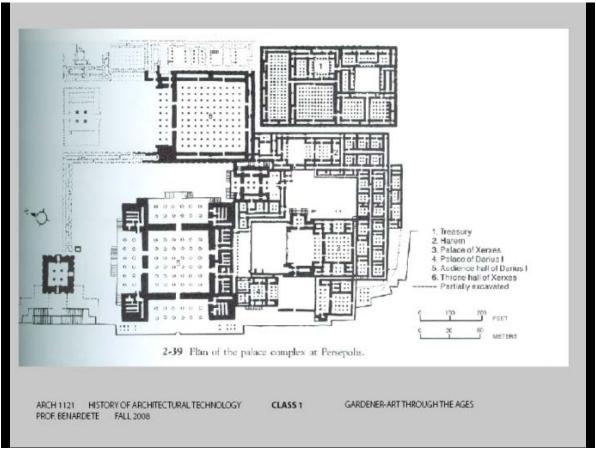
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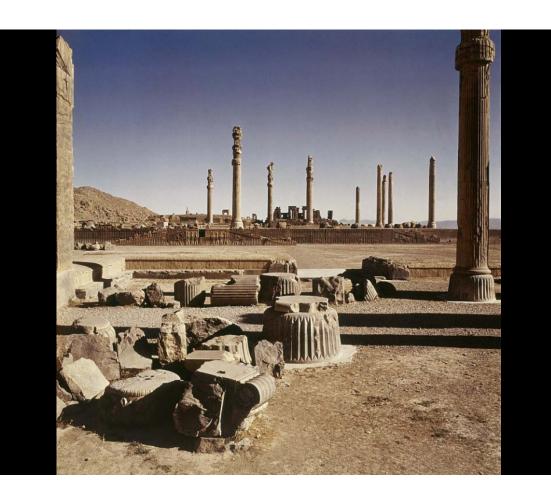


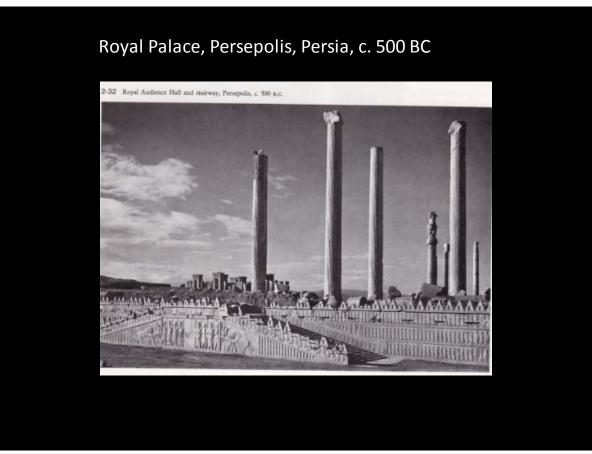










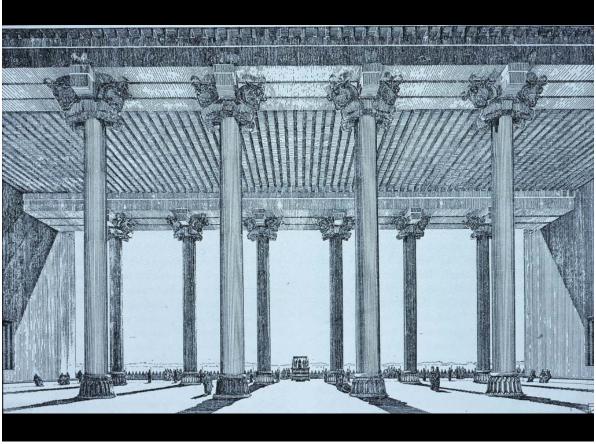


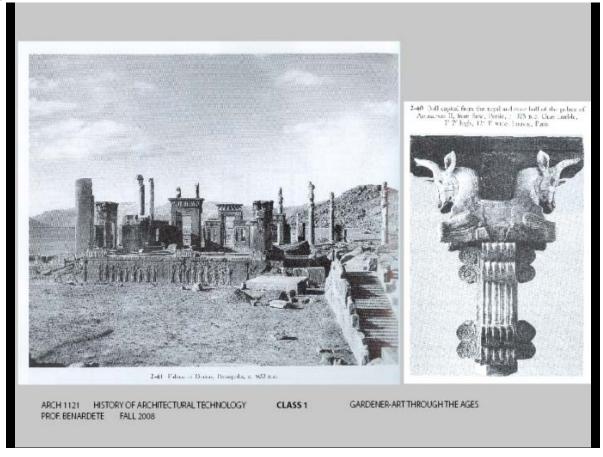
Royal Palace, Persepolis, Persia, c. 500 BC

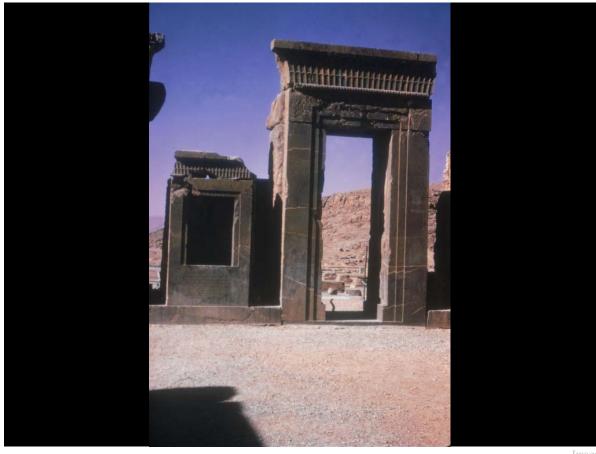


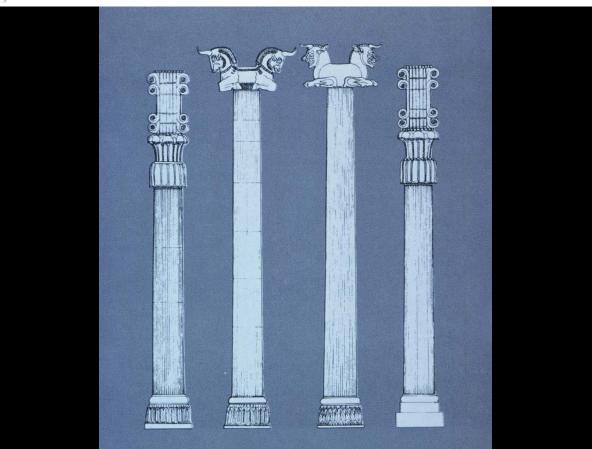














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