

THE ORIENTAL INSTITUTE

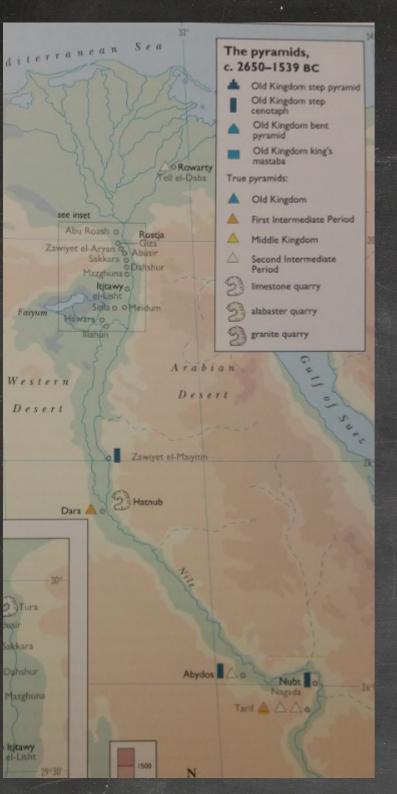
OF THE UNIVERSITY OF CHICAGO

Building the Pyramids

Joseph Cross
Ph.D. student, Egyptology and Hebrew Bible
Oriental Institute
University of Chicago







Old Kingdom (2700 to 2150 BCE)

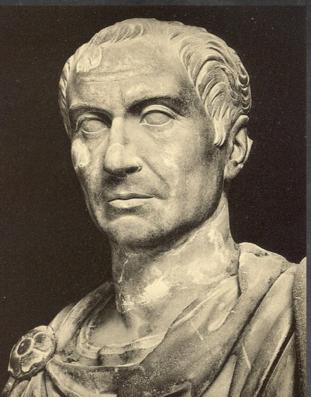


Middle Kingdom (2000 to 1650 BCE)



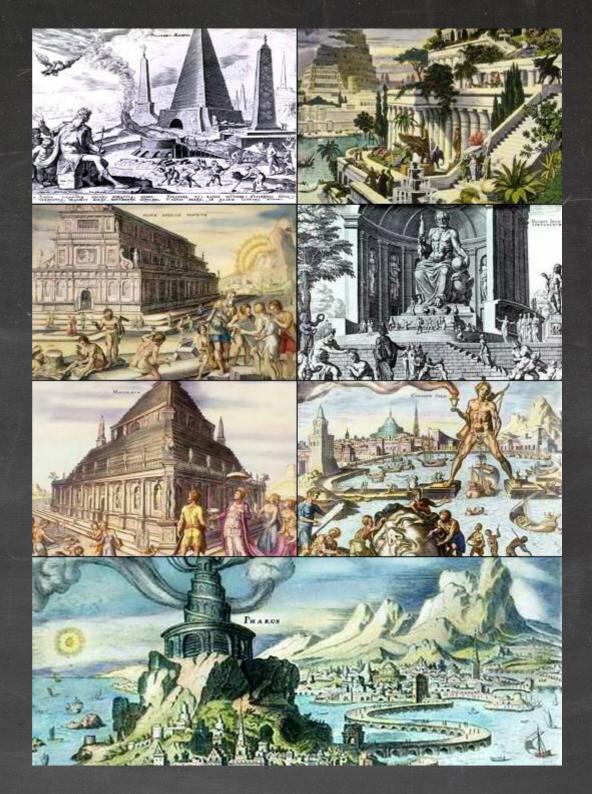






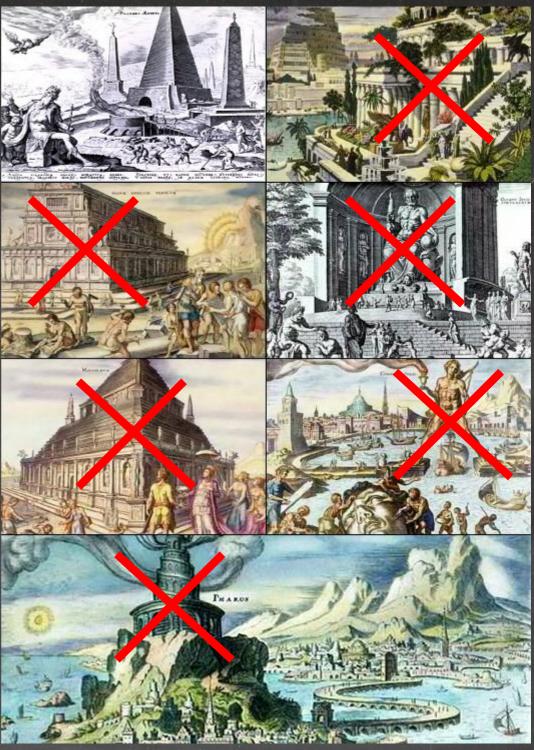


Seven Wonders of the Ancient World



Seven Wonders of the Ancient World







Great Pyramid Of Khufu (Cheops)

- 500 ft tall
- 2 million bricks





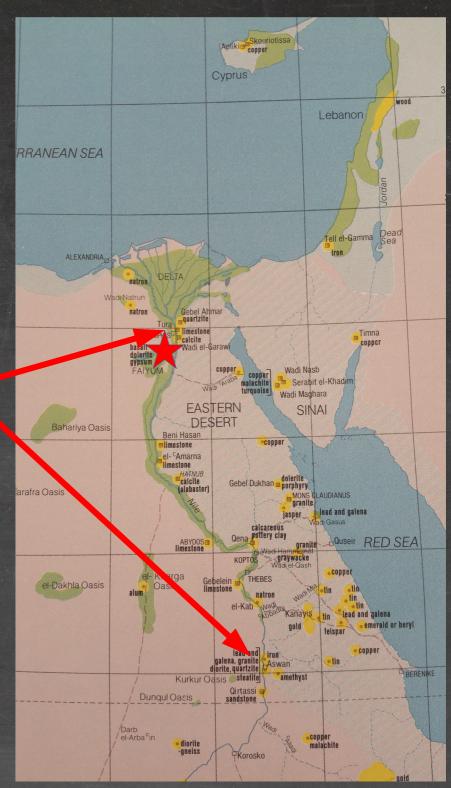
How were they built?

How were they built?





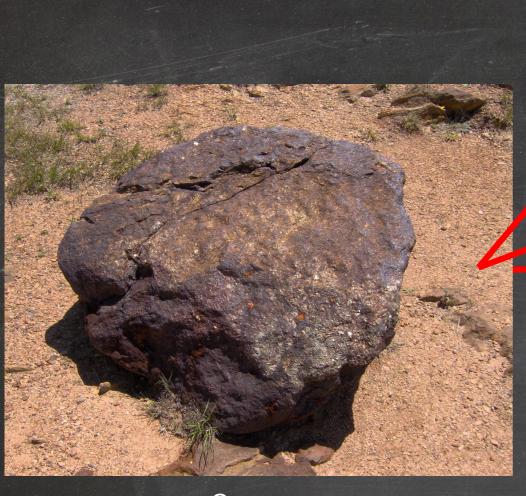
Limestone



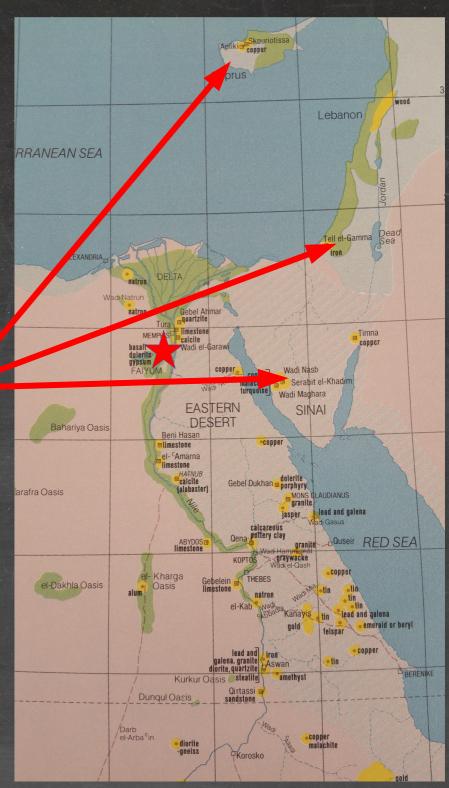


Gypsum



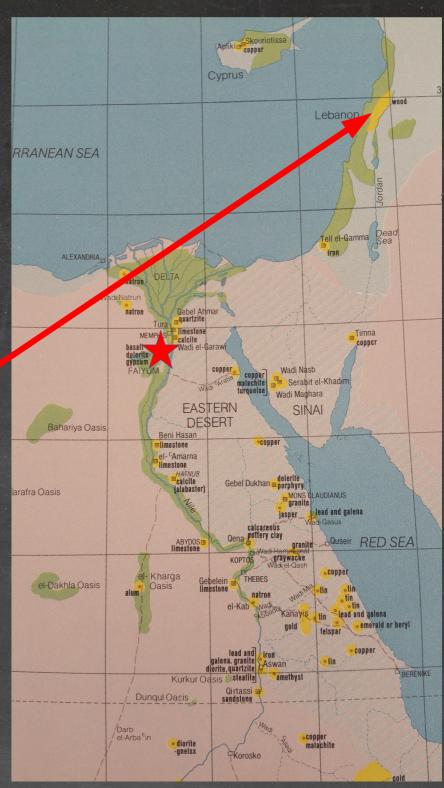


Copper



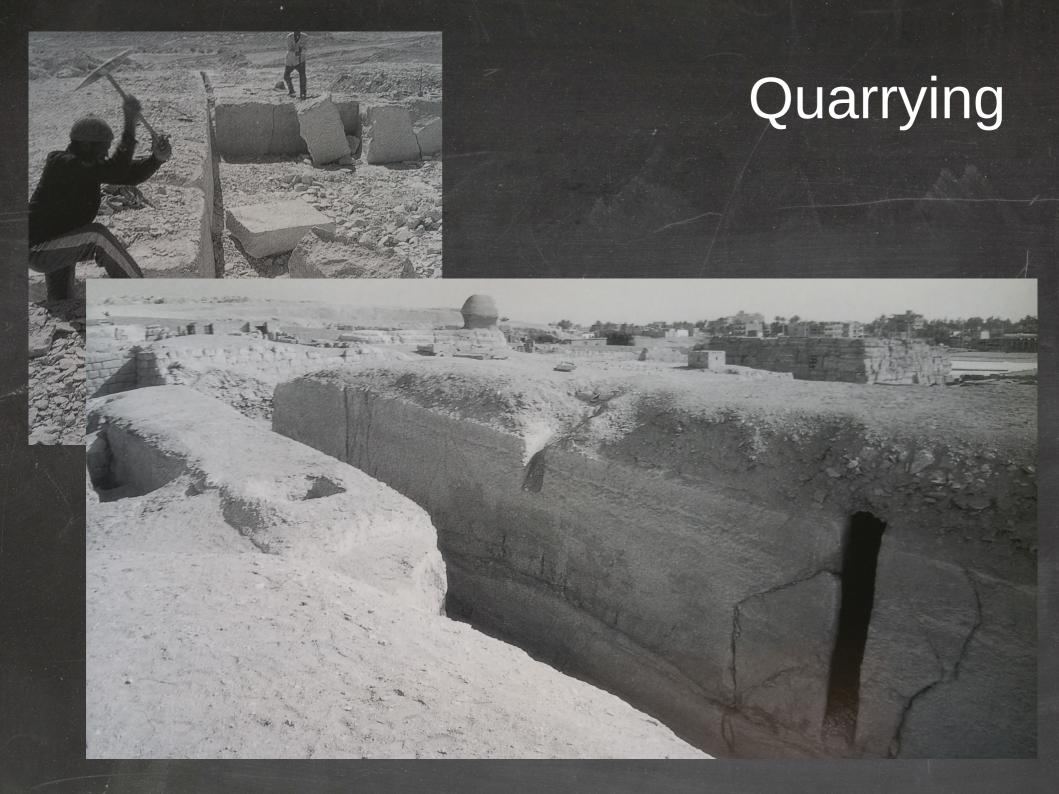


Cedar wood



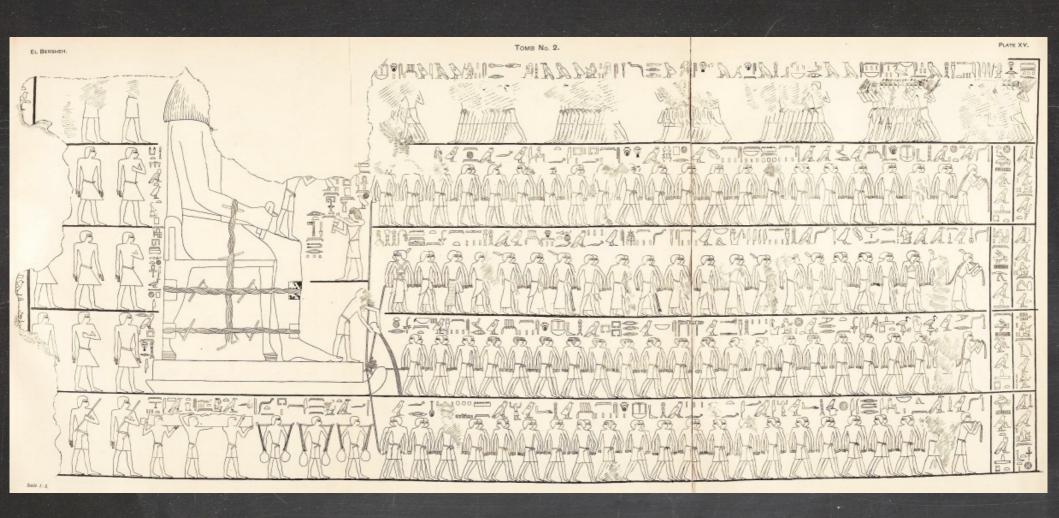




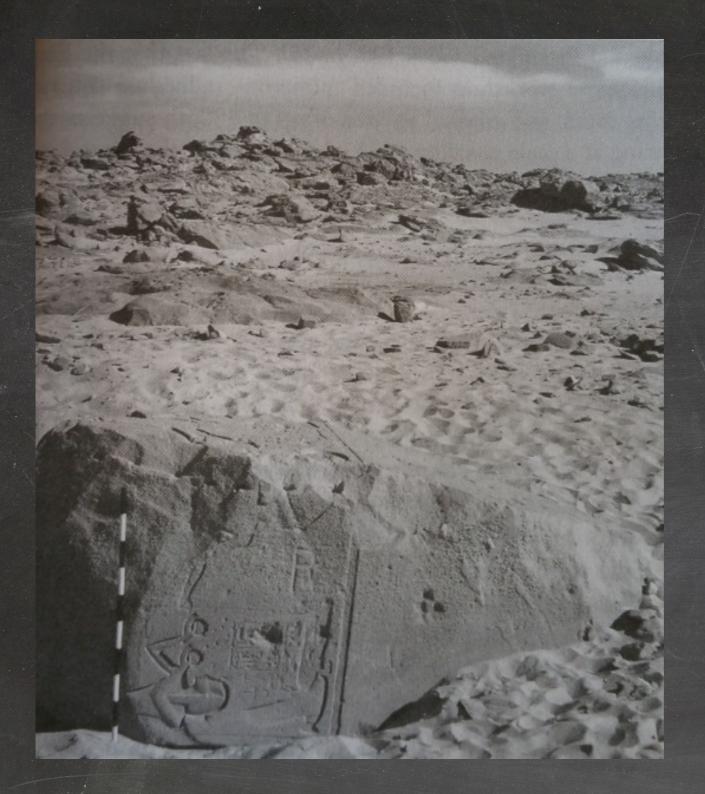


Quarrying





From the tomb of Thuthotep at Deir el-Bersha (Middle Kingdom)

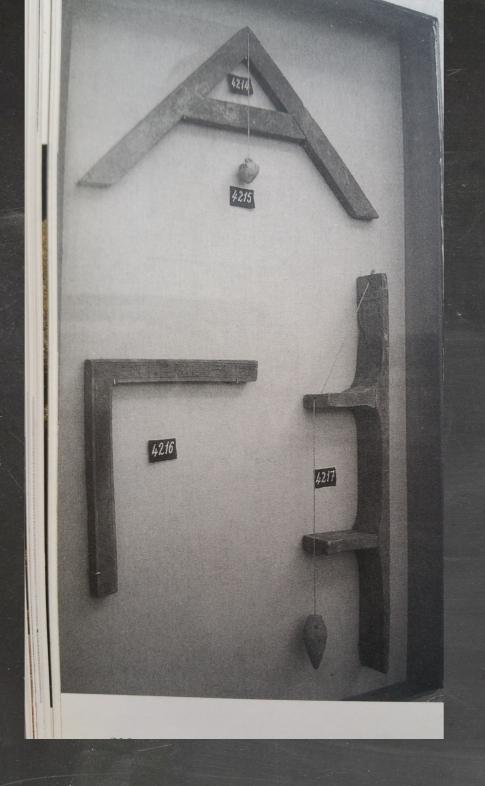


Quarrying

Transportation of stone

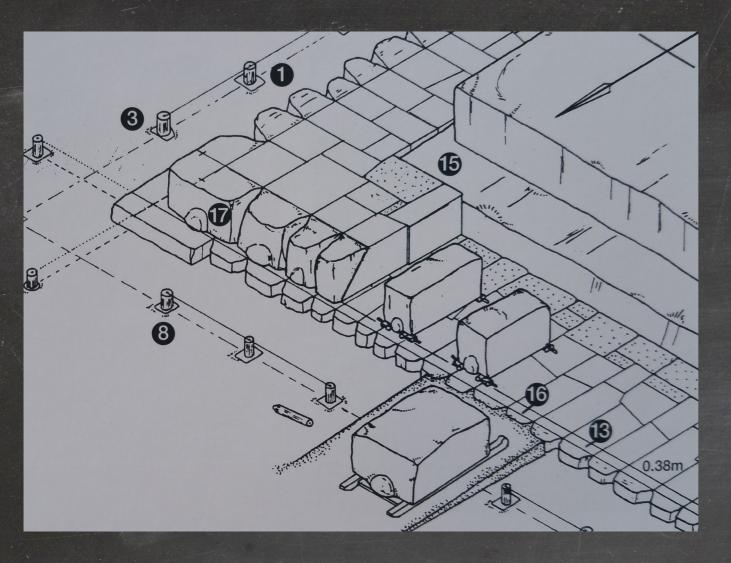


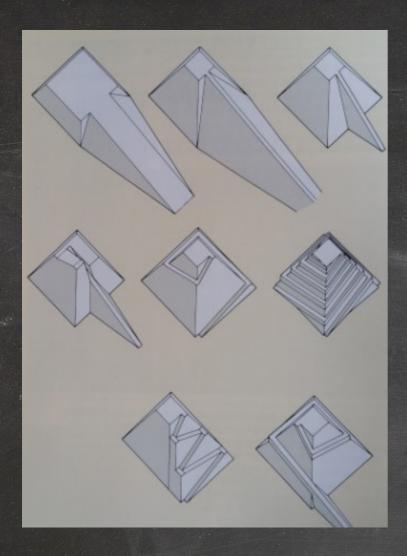




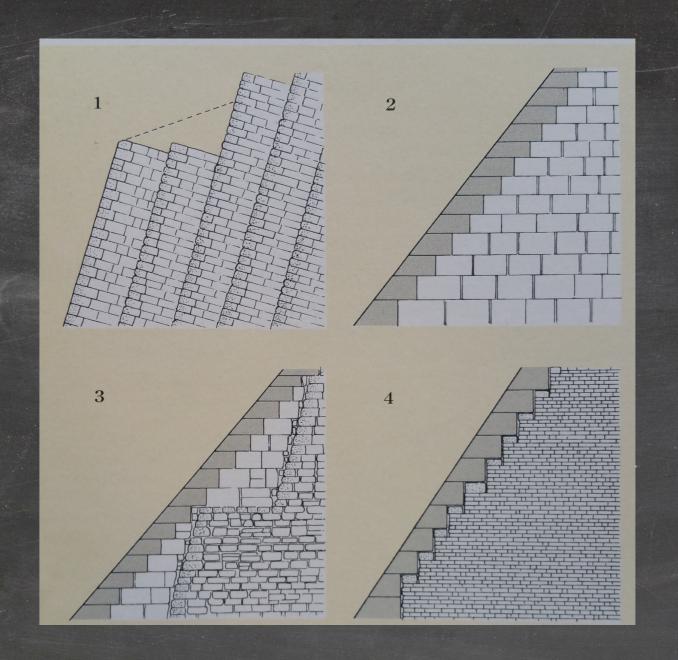
Preparing the site

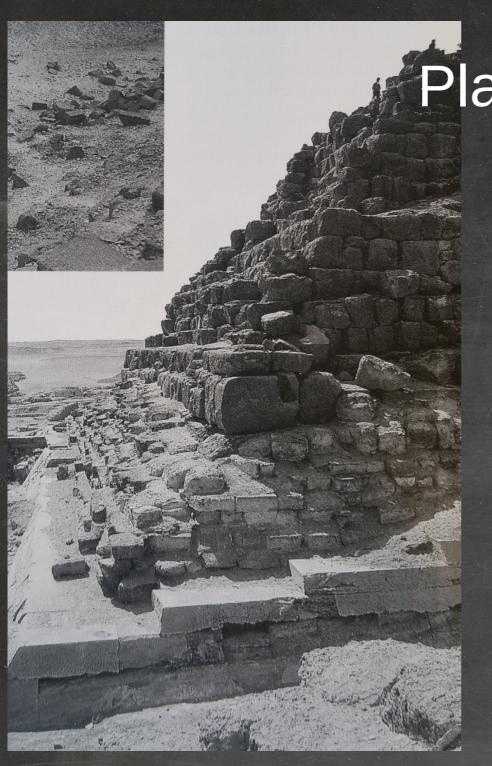




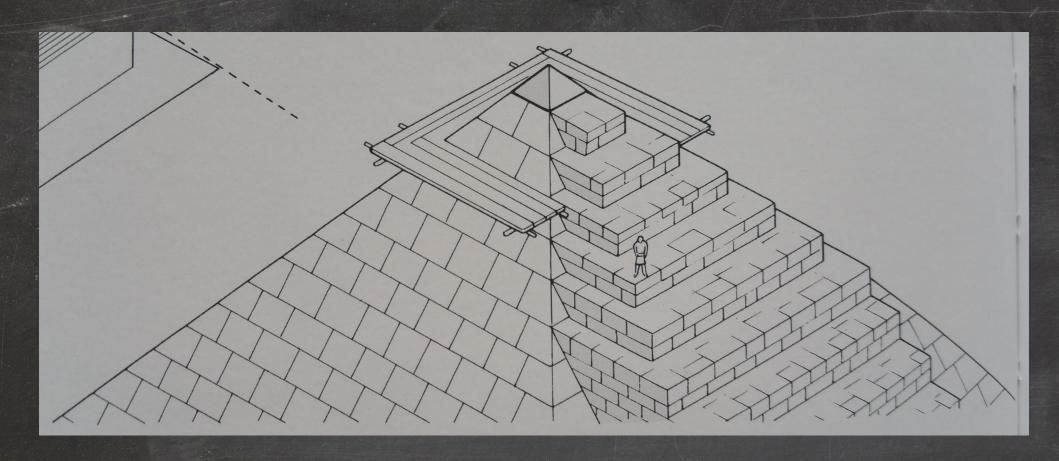




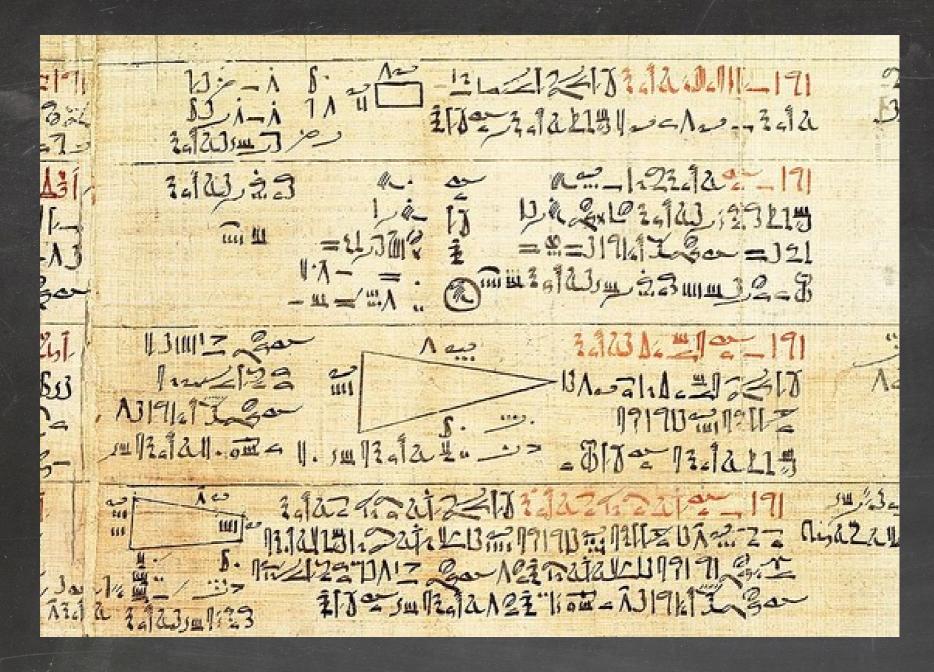




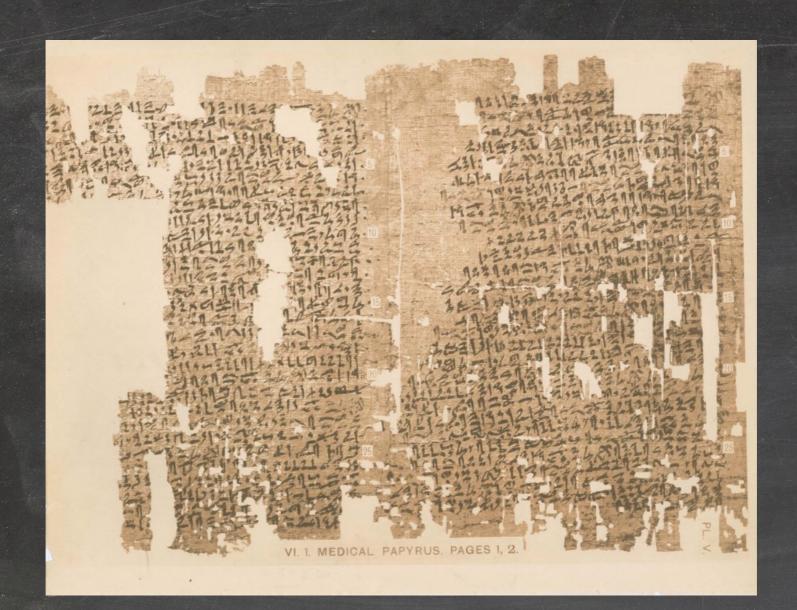
Topping it off



How much arithmetic did it take?



How did they work together?



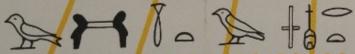
2,000 crew

1,000 gang 'Friends of Menkaure'

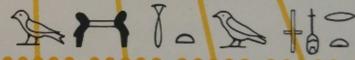
الإحاا لتن

1,000 gang 'Drunkards of Menkaure'

200 200 200 200 200 phyle phyle phyle phyle 'Great' 'Asiatic' 'Green' 'Little' 'Last'

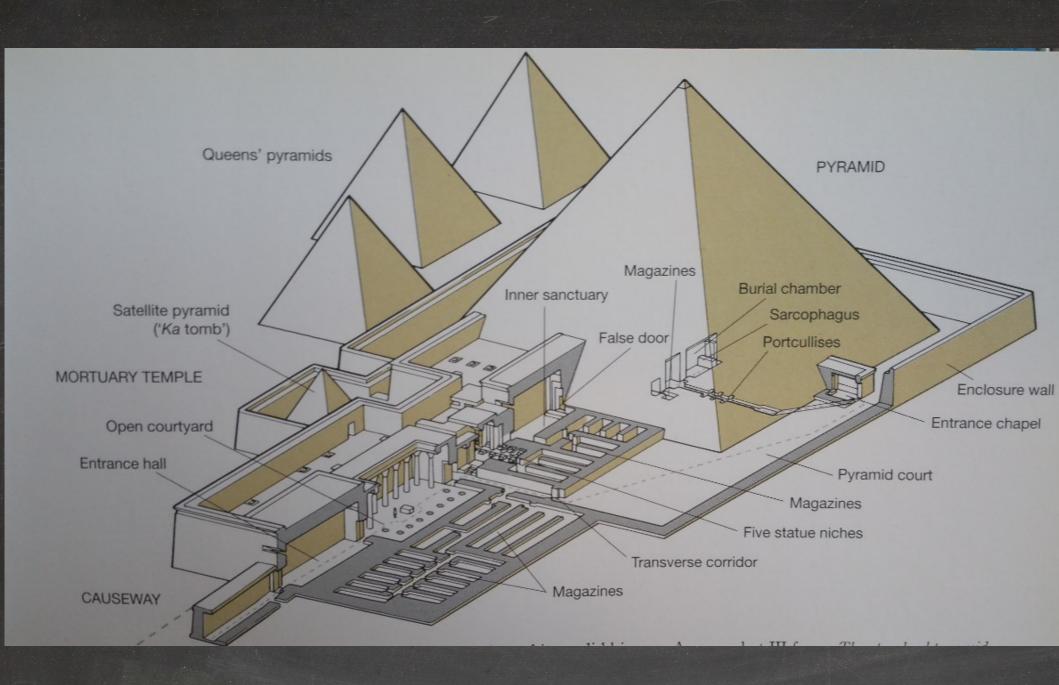


200 200 200 200 200 phyle phyle phyle phyle phyle phyle phyle cat' 'Asiatic' 'Green' 'Little' 'Last'



(20 men x 10 in each phyle)

(20 men x 10 in each phyle)









What did the pyramid symbolize?

What did the pyramid symbolize?



What did the pyramid symbolize?

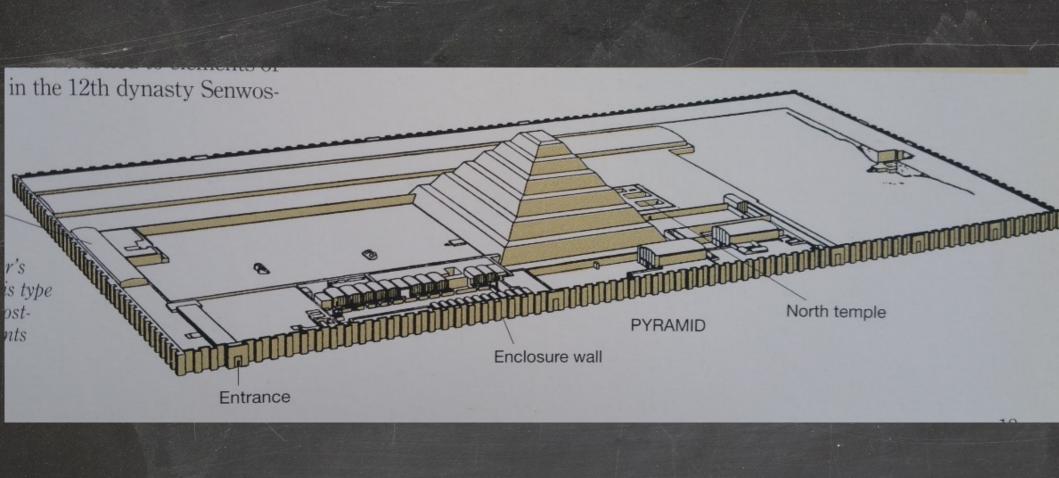


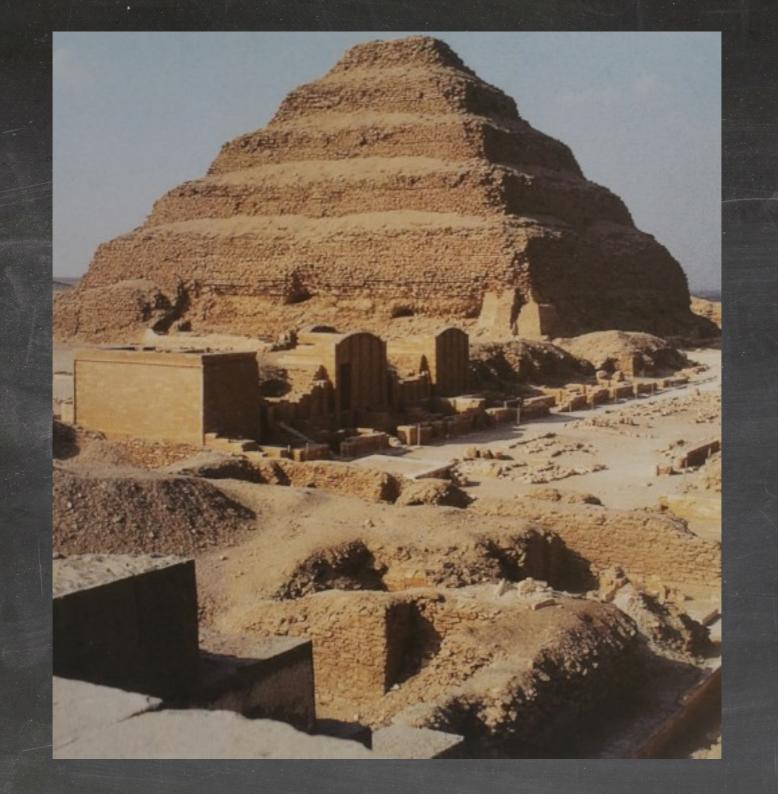


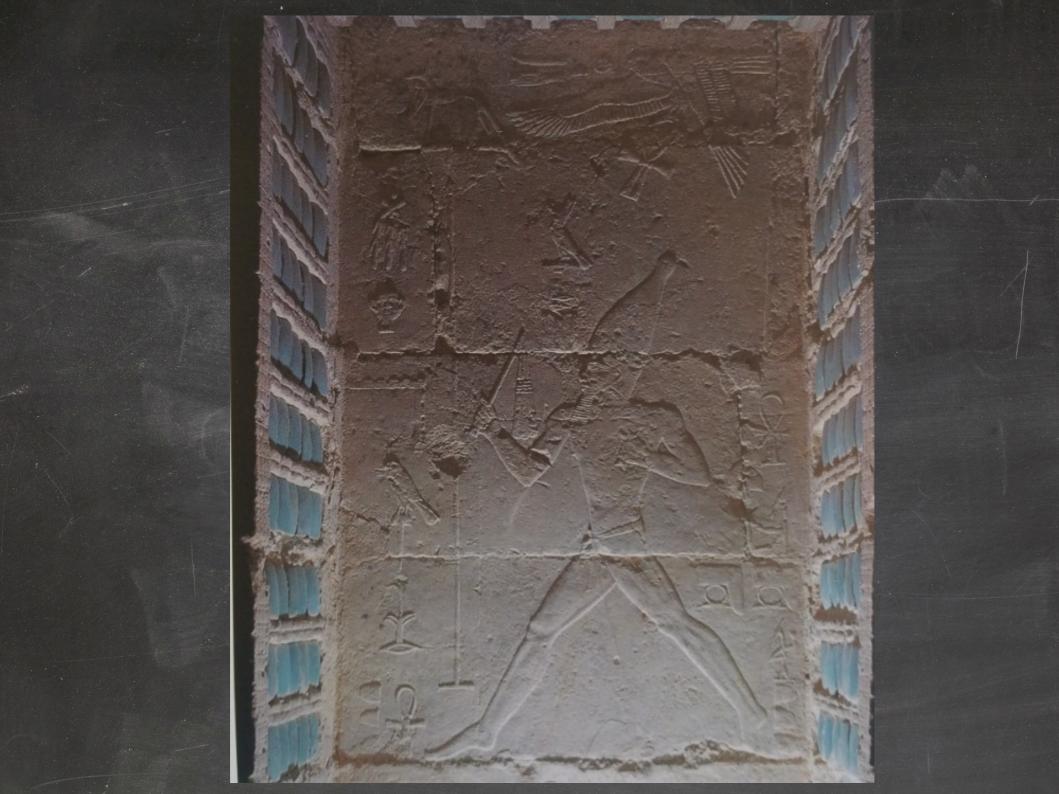
A brief tour of the pyramids

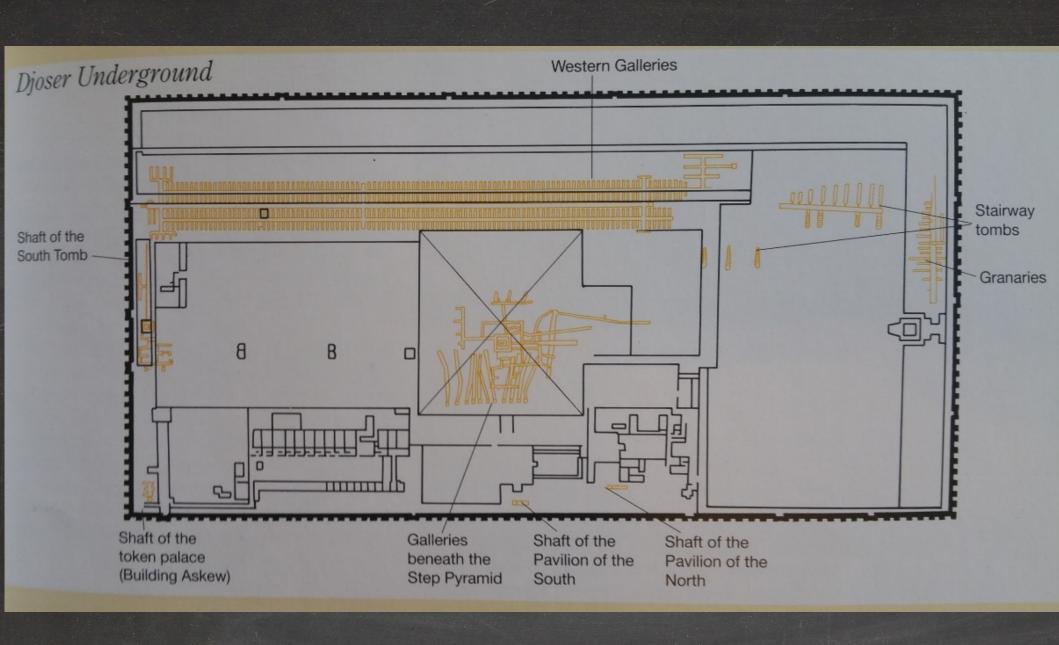
Step Pyramid of Djoser





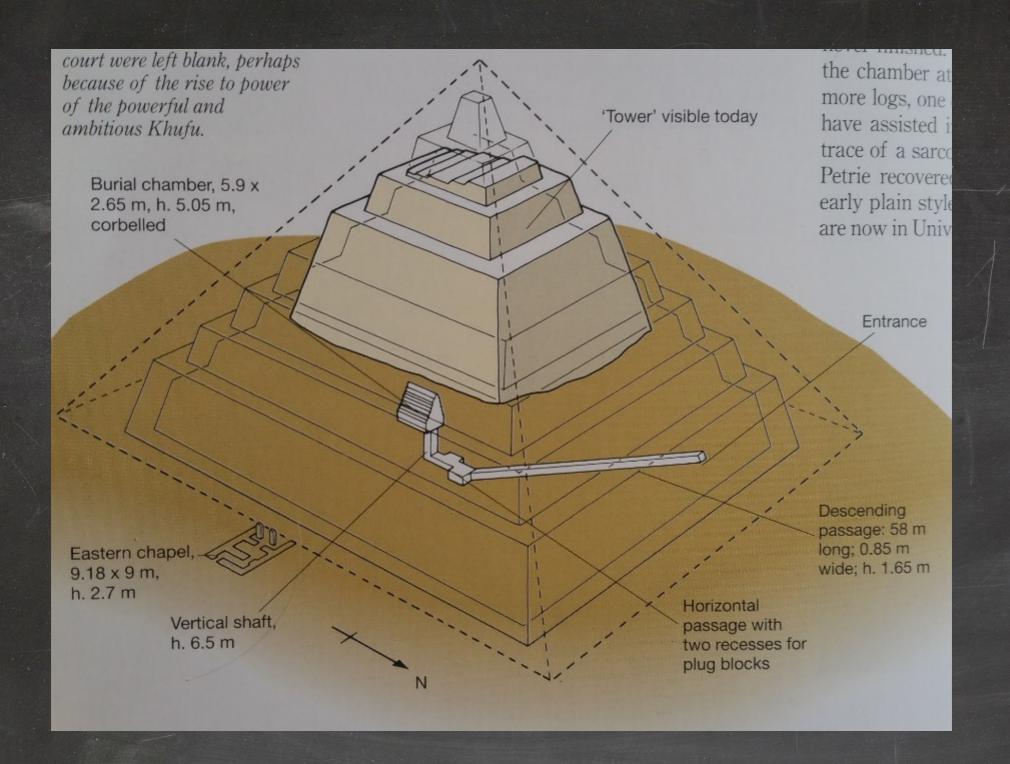


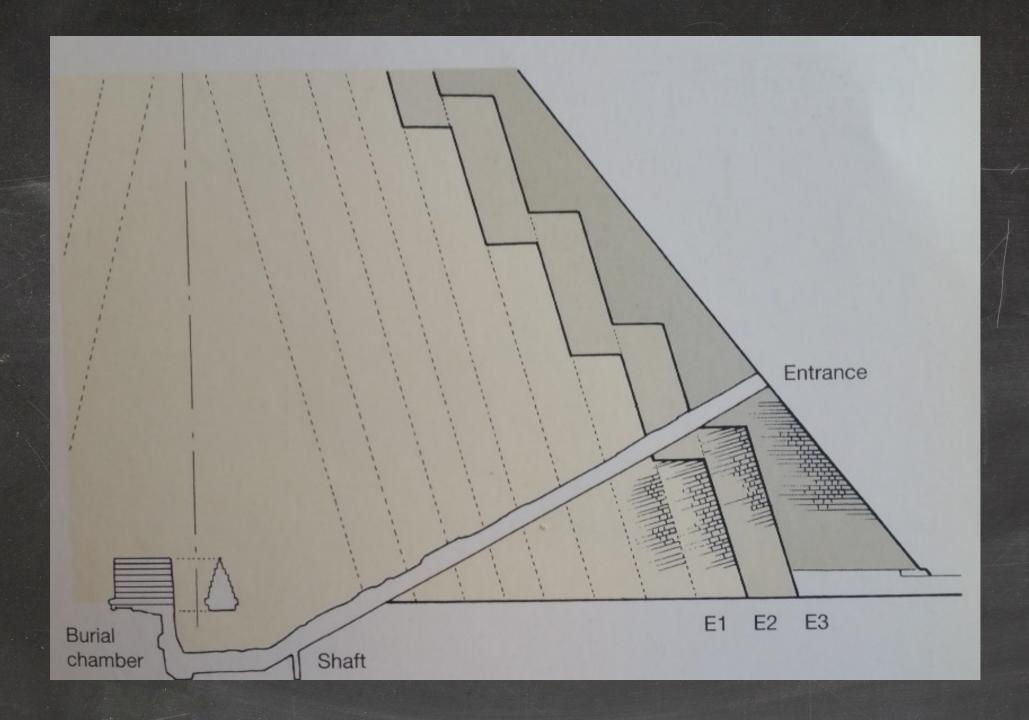




Meidum Pyramid of Sneferu

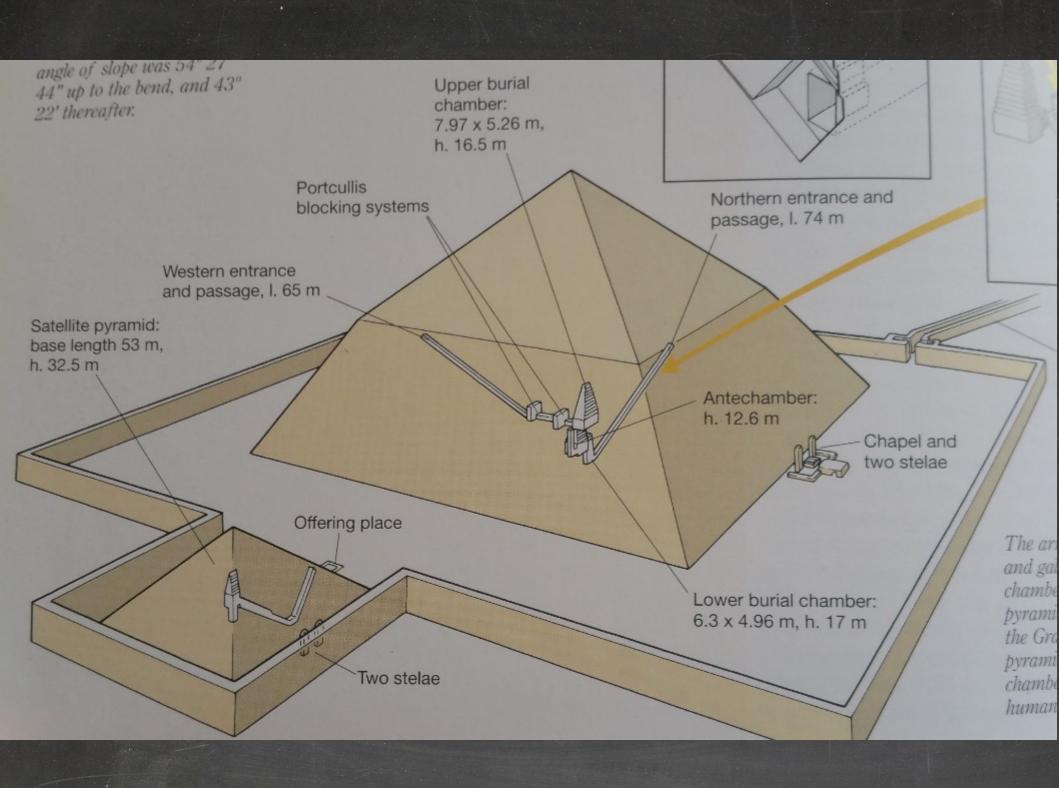




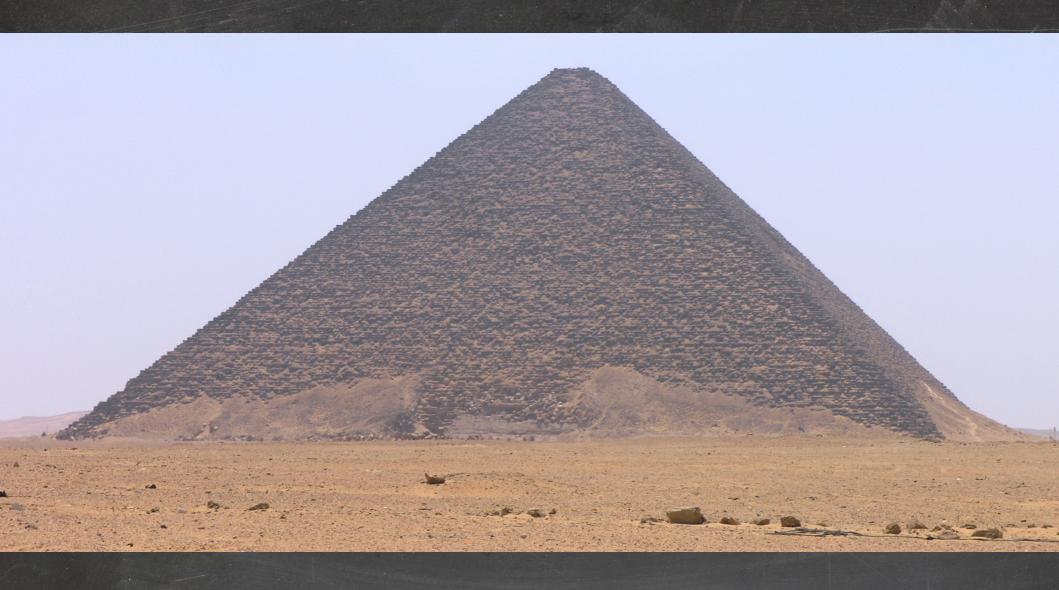


Bent pyramid of Sneferu



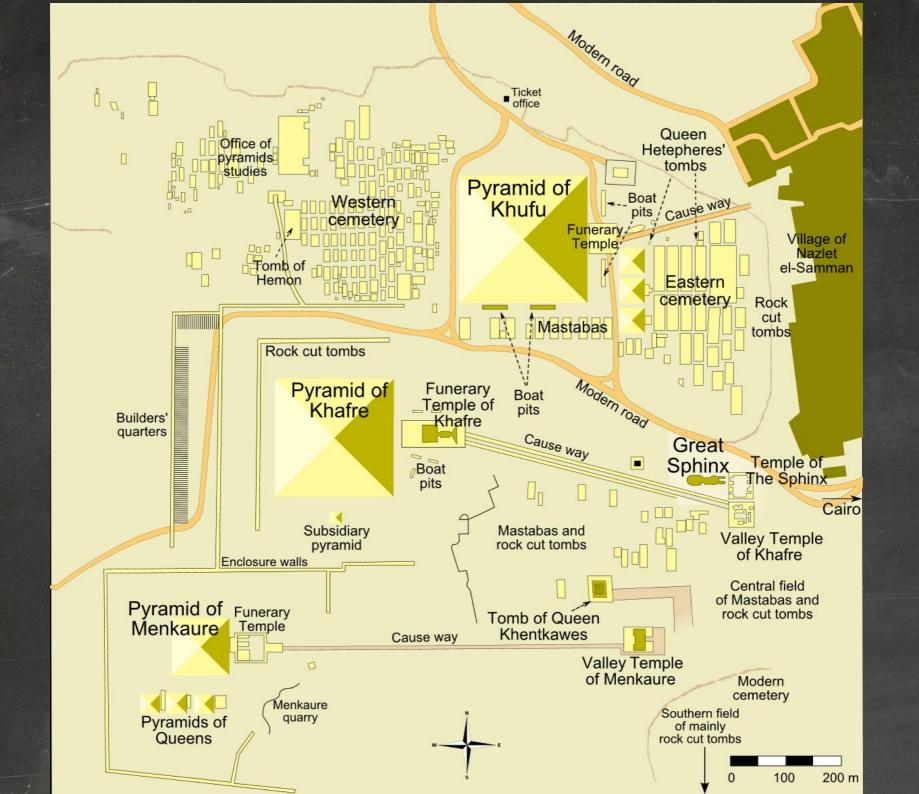


Red pyramid of Sneferu



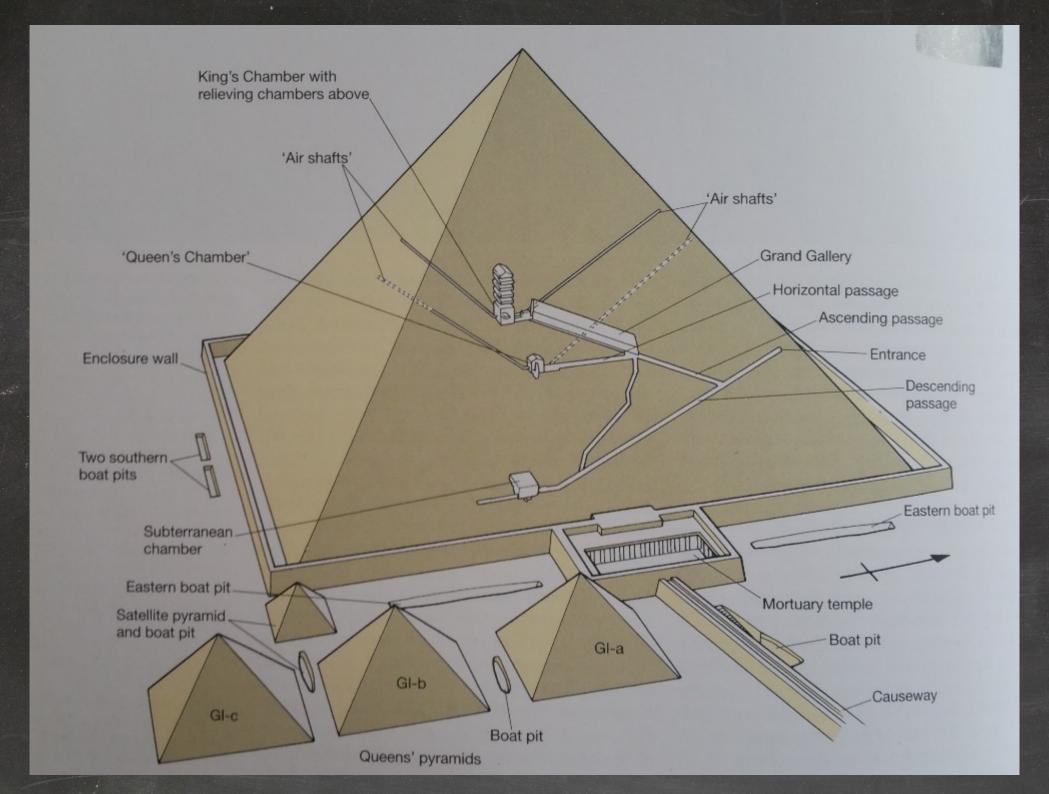




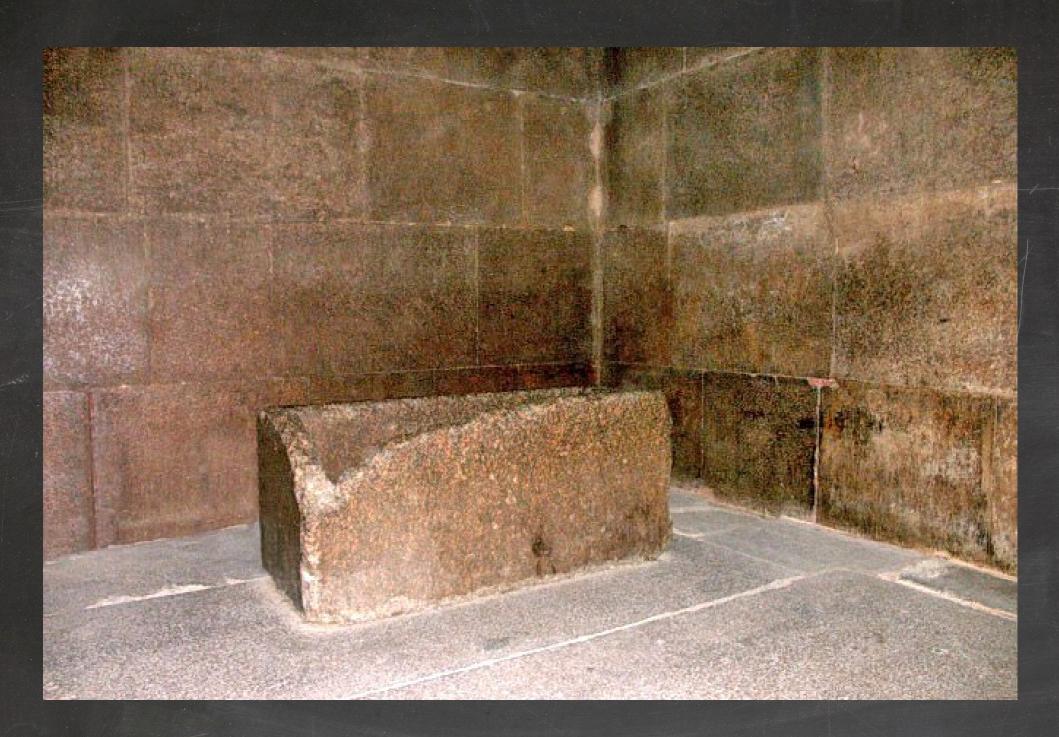


Great Pyramid of Khufu

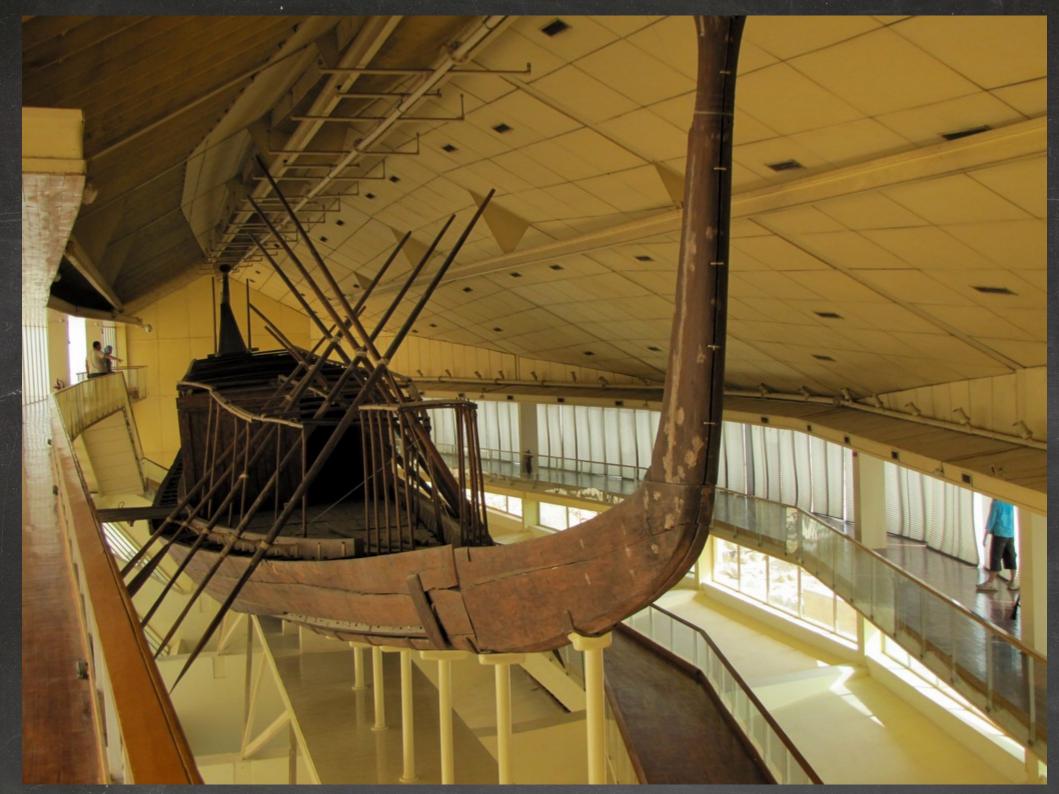


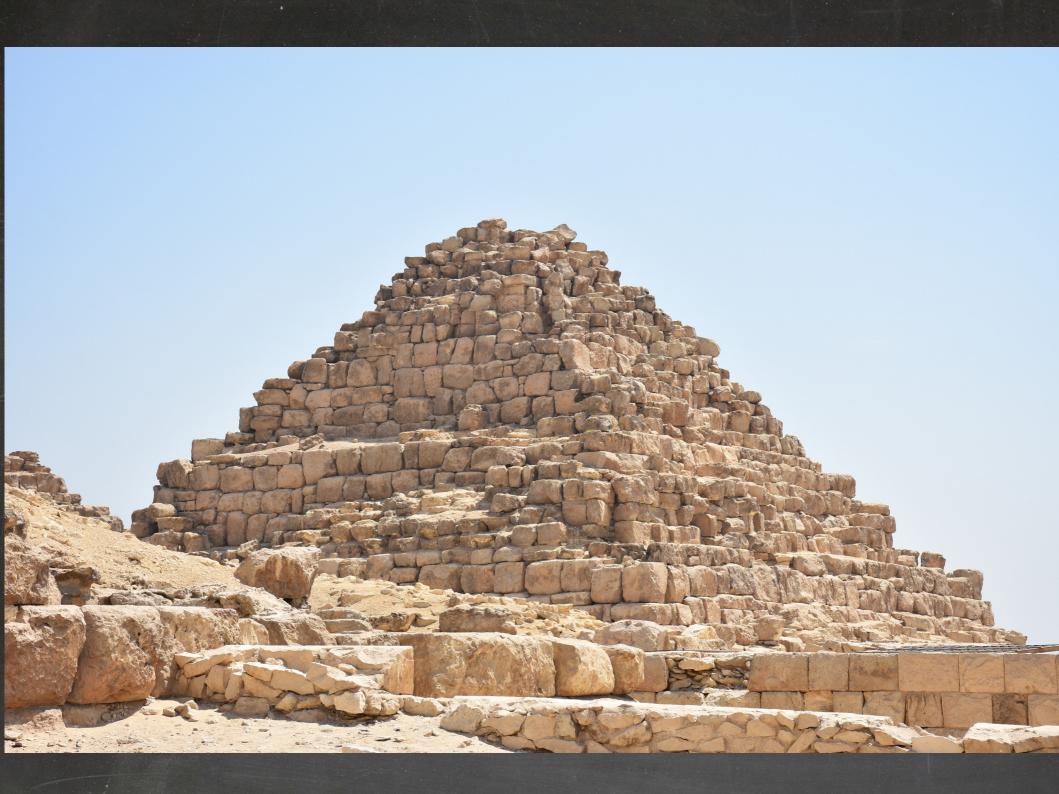








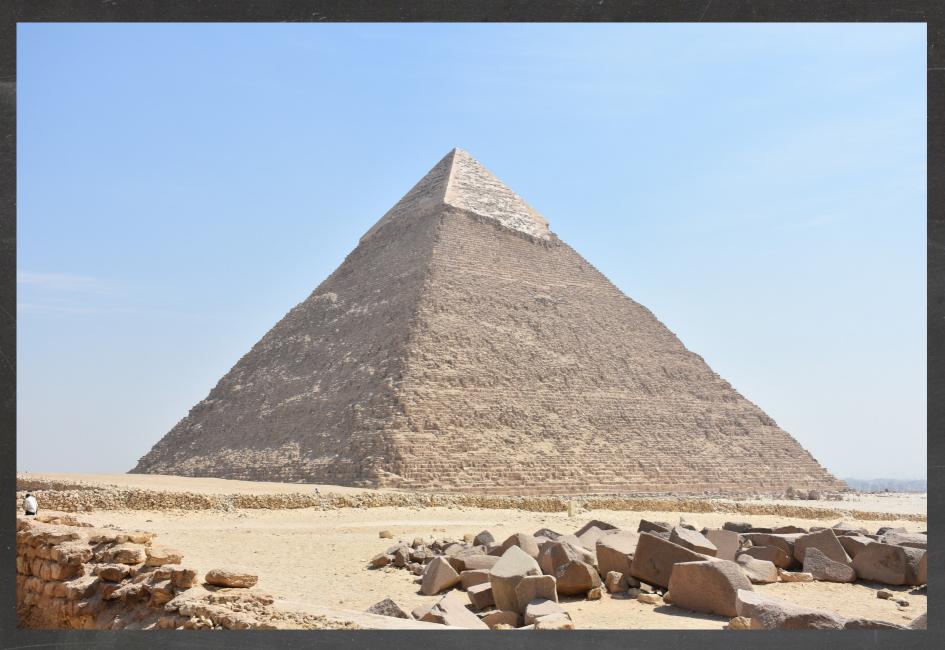








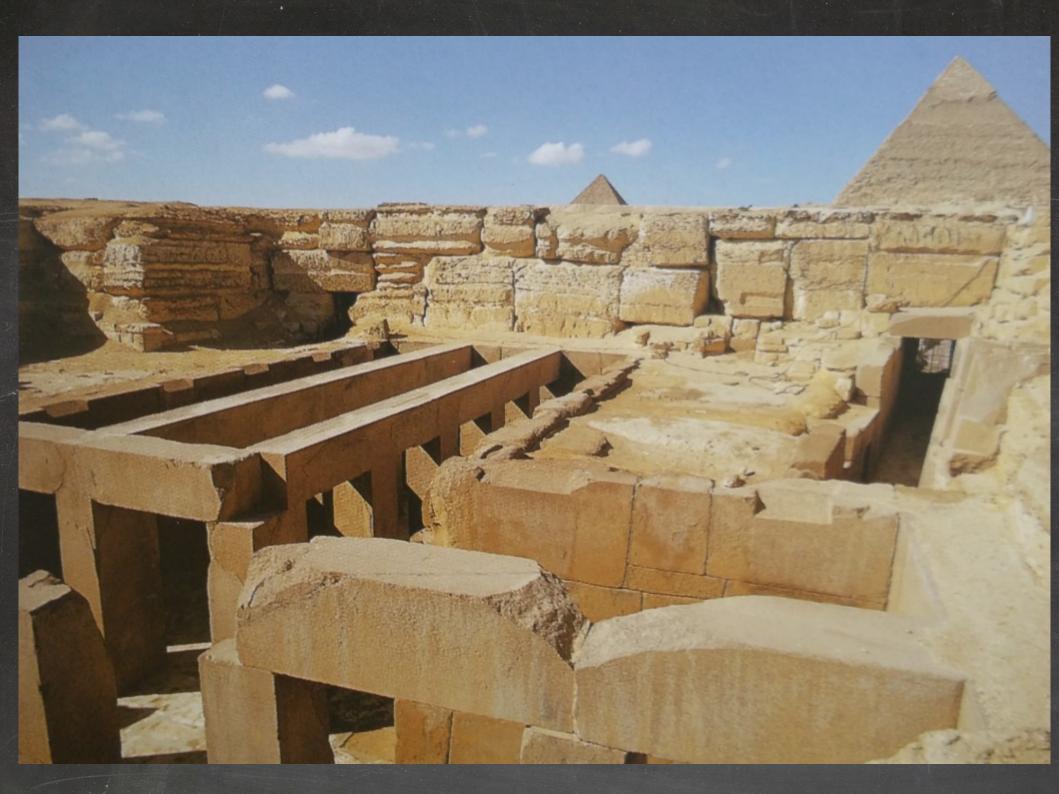
Pyramid of Khafre





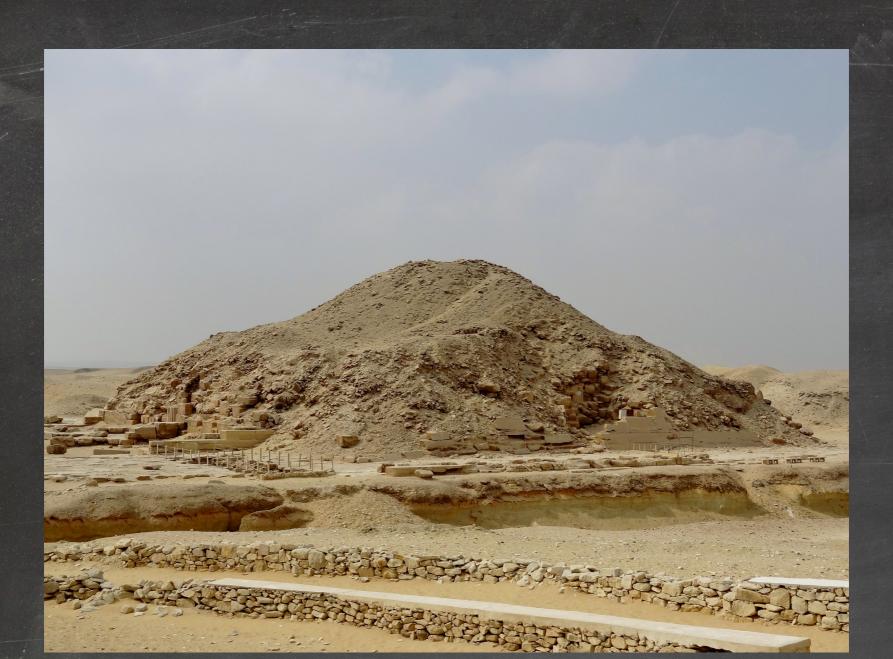


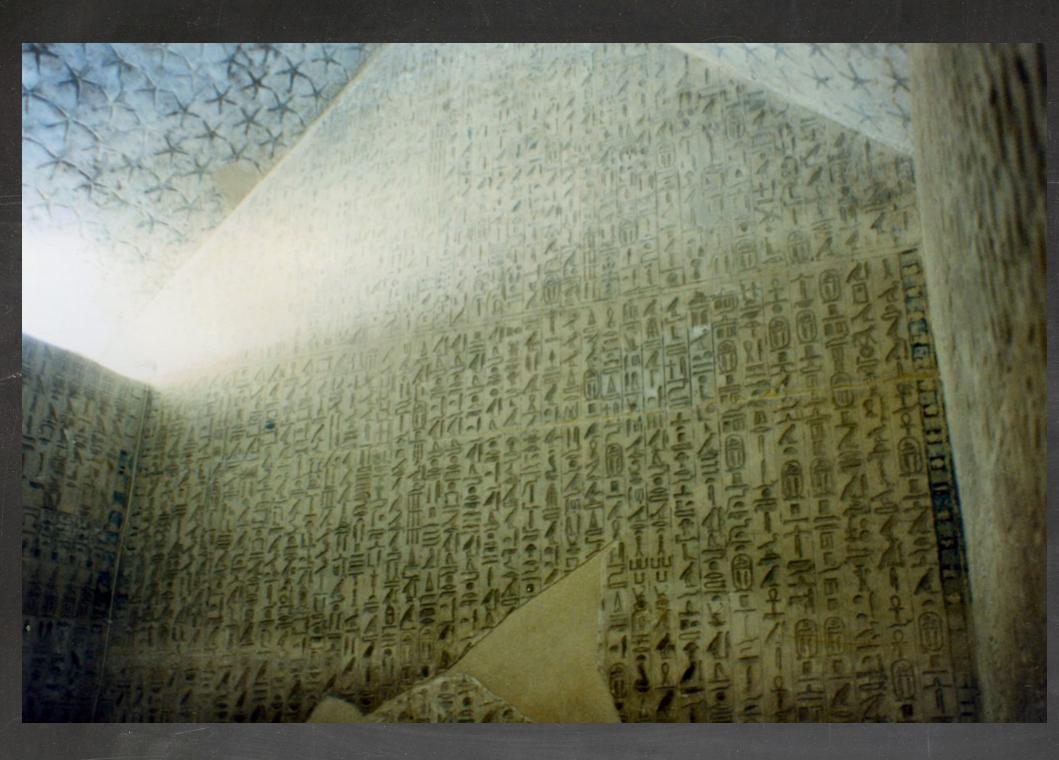


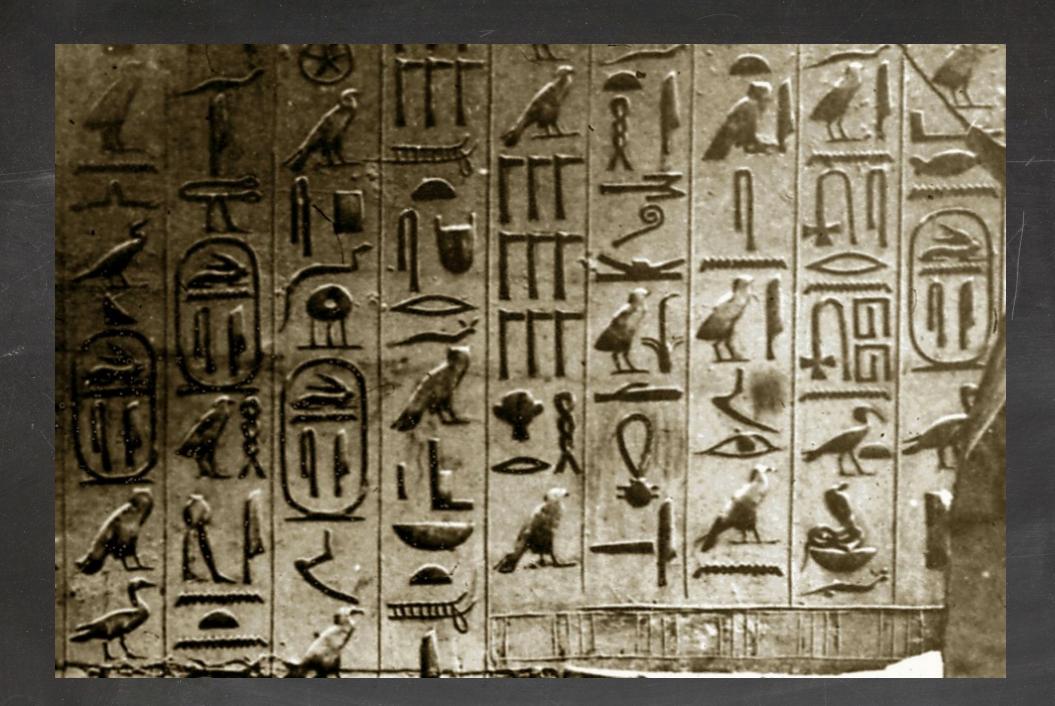




Pyramid of Unas

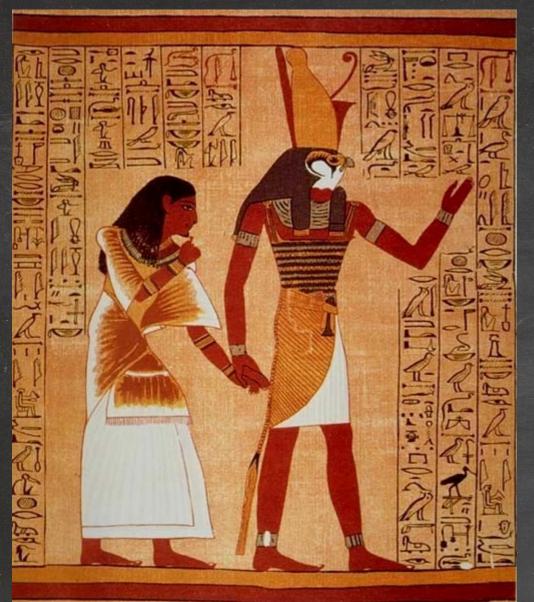








The sky's doorway has been opened,
The Cool Waters' door has been pulled open
For Horus of the gods at daybreak,
That he might emerge into the Marsh of Reeds
And become clean in the Marsh of Reeds.







The Pyramid Texts

Unas! You have not gone away dead, You have gone away alive! Sit on Osiris' chair, with your baton in your arm, Govern the living! With your lotus scepter in your arm, Govern those of the inaccessible places!

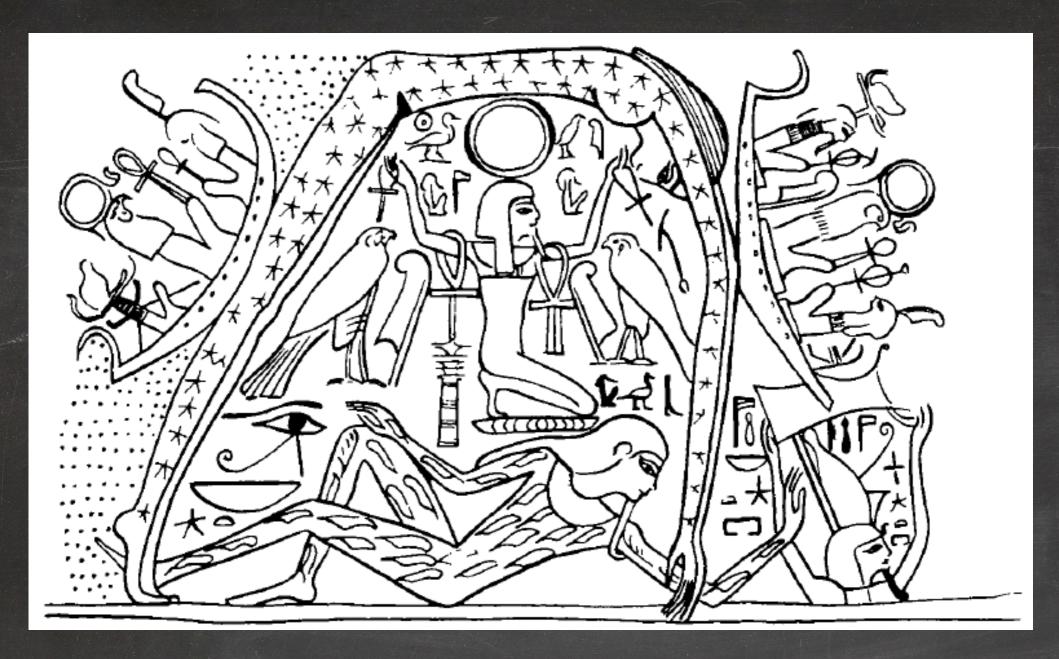




The sky's two reedfloats have been set for the Sun, That he might cross on them to the Horizon.

The sky's two reedfloats have been set for Horus, That he might cross on them to where the Sun is.

The sky's two reedfloats have been set for Unas, That he might cross on them to where Horus is, To where the Sun is.



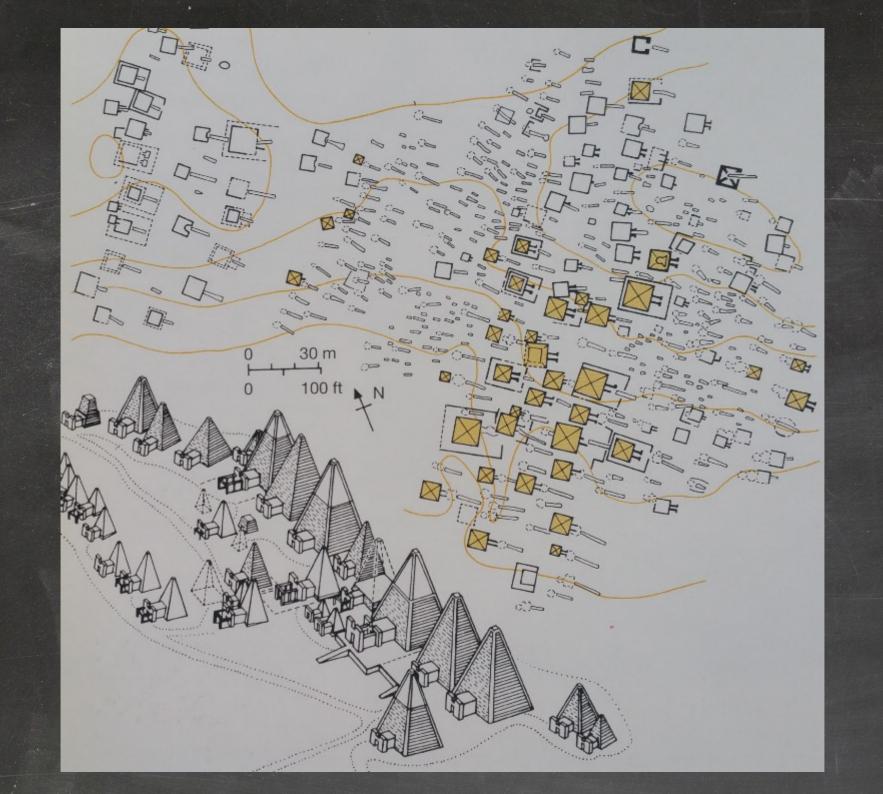
The Pyramid Texts

The sky has grown cloudy, The stars obscured. The sky's arcs have quaked, The horizon's bones shaken, And those who move have grown still, Having seen Unas rising as Ba, As the god who lives on his fathers And feeds on his mothers. Unas is the one who eats people and lives on gods... Unas is the one who eats their magic...



Nubian pyramids at Meroe

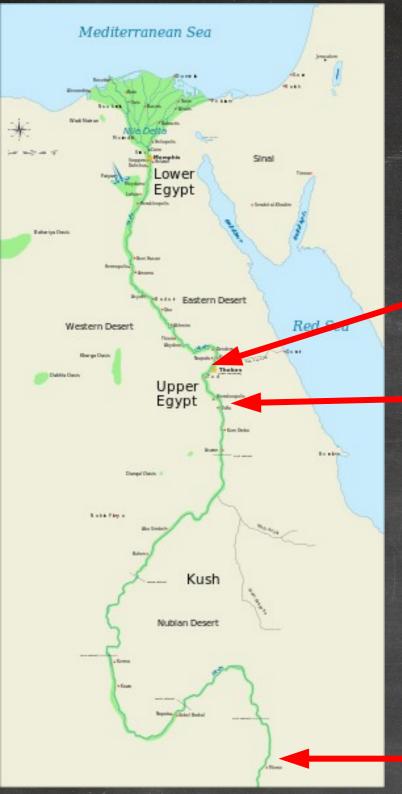






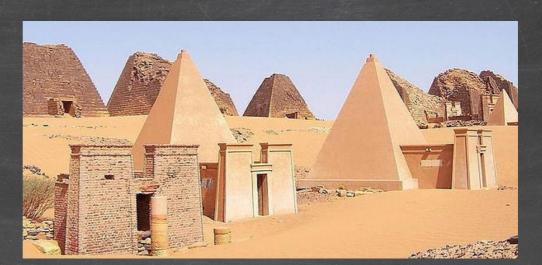












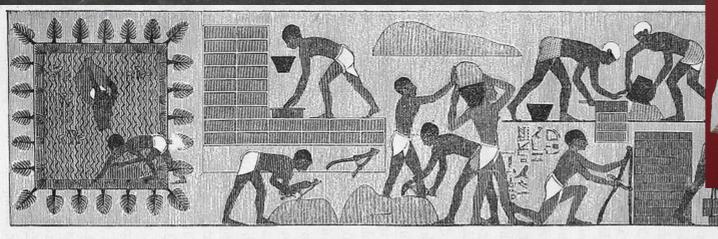


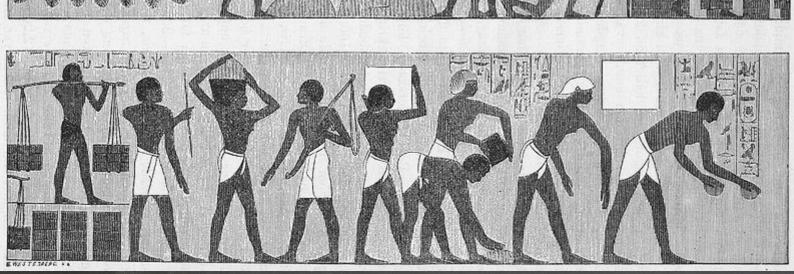


Khaemwaset, son of Ramesses II



Herodotus (485-426 BCE)





Josephus (37 – 100 CE)



The Arabian Nights





The Renaissance View

John Greaves (1602-52)

Pyramidographia:

DESCRIPTION OF THE

PYRAMIDS

IN ÆGYPT.

By IOHN GREAVES, Professor of Astronomy in the University of OXFORD.

Romanorum Fabrica & antiqua opera (cum venid id dictum sit) nihil accedunt ad Pyramidum splendorem,& superbiam. Bellon lib. 2. Observ. cap. 42.



LONDON,
Printed for George Badger, and are to be fold at
his shop in St. Dunstans Churchyard
in Fleet-street 1646.



Napoleon Bonaparte (1769-1821)





Jean-Léon Gérôme, Napoleon devant le Sphinx (1867-1868)

DESCRIPTION DE L'ÉGYPTE,

OU

RECUEIL

DES OBSERVATIONS ET DES RECHERCHES

QUI ONT ÉTÉ FAITES EN ÉGYPTE

PENDANT L'EXPÉDITION DE L'ARMÉE FRANÇAISE,

PUBLE

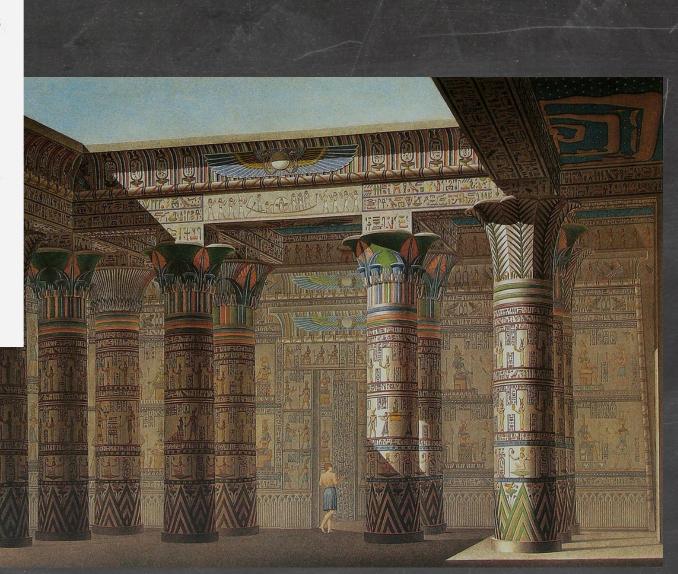
PAR LES ORDRES DE SA MAJESTÉ L'EMPEREUR NAPOLÉON LE GRAND.

1 - PLANCHES.

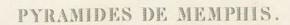


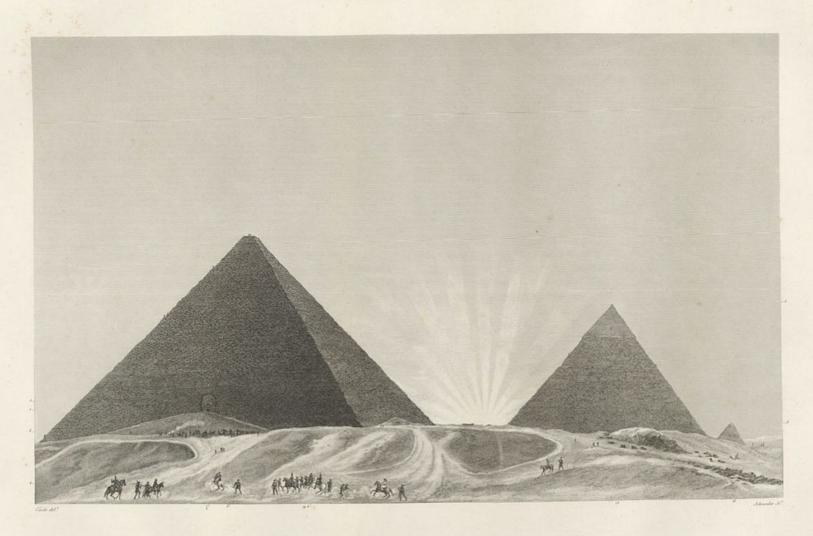
A PARIS, DE L'IMPRIMERIE IMPÉRIALE.

M. DCCC 1X.

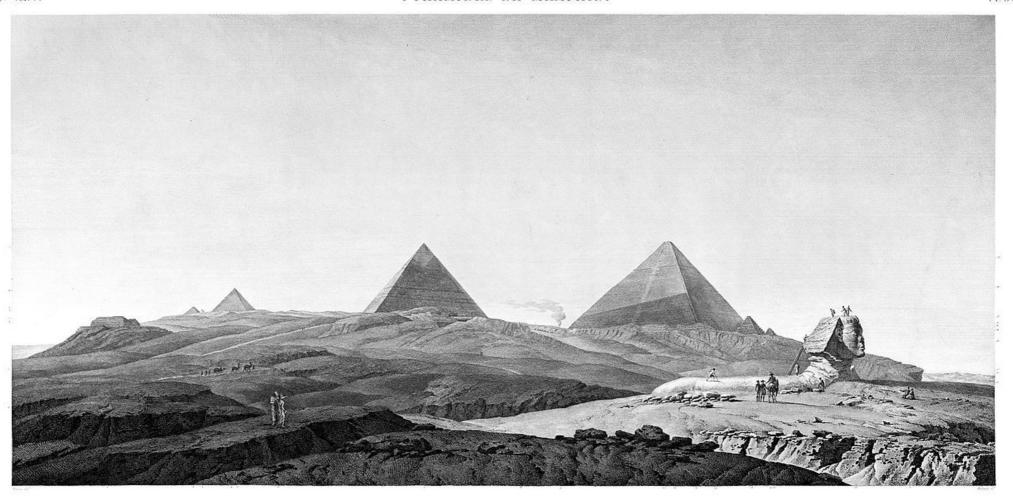


Pl.9.

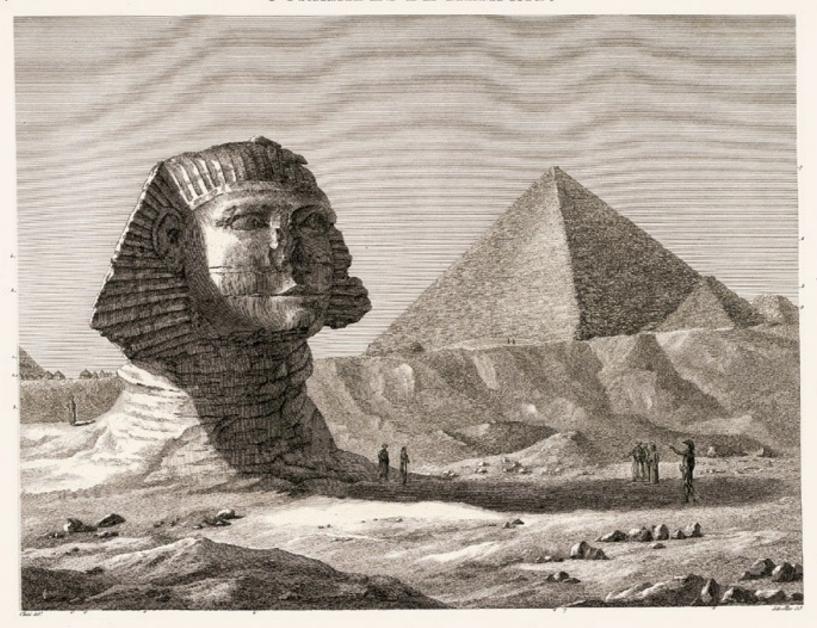




VUE DE L'ENTRÉE DE LA GRANDE PYRAMIDE, PRISE AU SOLEIL LEVANT.



VUE GÉNÉRALE DES PYRAMIDES ET DU SPHINX, PRISE AU SOLEIL COUCHANT.



YUE DU SPHINX ET DE LA GRANDE PYRAMIDE, PRISE DU SUD-EST.

