ABPL90267 Development of Western Architecture

the Ancient Near East
COMMONWEALTH OF AUSTRALIA
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some questions:

what did people first live in?

what were the first true buildings?

when and where was an interior space, capable of holding groups of people, first constructed?

when and where was the arch invented?
Gobekli Tepe, Turkey, c 9000 BC
reconstruction of the circles; excavation plan
Göbekli Tepe, Turkey
view of the pillared structure, auroch stele

house 47, Mureybet, Jordan, [phase III, 8\textsuperscript{th} millennium], excavated remains, and reconstruction drawing by G Deraprahhamian.

model of a house at Mureybet, Jordan, c 8500 BC
neolithic cultures
c 6000-3000 BC
(neolithic = new stone age)

agriculture
fixed settlements
baked pottery
buildings of mud brick, timber, reeds, rubble
the spread of agriculture

Trump, *Malta: Prehistory and Temples*, p 54
sun-dried brick from Jericho, c 8,000 BC

sun-dried bricks from Sialk, Iran, 6th millennium BC

beehive dwellings, Cyprus, 6th millennium BC
MUAS 14,557
Tell Bouqras, eastern Syria, c 6000 BC: plan

Burollet, *Art en Syrie*, p 35
house at Çatal Höyük, Turkey, c 6000 BC
Miles Lewis
‘Sanctuary VI’, Çatal Höyük, part reconstruction by James Mellaart

supposed Çatal Höyük map, c 6200 BC in situ and as reconstructed

http://www.ancient-wisdom.co.uk/turkeycatalhuyuk.htm
Inside a model of a house at Catal Hüyük, by Stipich Béla

Wikipedia Commons November 2011
Catal Höyük, reconstructions of the decoration, by Mellaart

second sanctuary of the vultures VII,

sanctuary A-III, main room

Pierre Amiet, *Art of the Ancient Near East*, p 573
THE EARLIEST CIVILISATIONS

LOWER MESOPOTAMIA

NILE VALLEY

INDUS VALLEY

YELLOW RIVER
Mohenjo-Daro
Lewis, *Architectura*, p 39
Mohenjo-Daro, Pakistan, c 2500-2000 BC aerial view of part of the citadel, street with limestone blocks over drains, great bath &c

the development of trade and literacy

Egypt & Mesopotamia c 2250 BC

the development of the fertile crescent
towns trade and literacy in Egypt & Mesopotamia 2250 BC and 1300 BC

the ancient near east

EGYPT

OLD KINGDOM  2680-2258

MIDDLE KINGDOM  2134-1786

NEW KINGDOM  1570-1085
the ancient sites in Lower and Upper Egypt, up to the First Cataract
Egyptian tombs

pit

stair mastaba

shaft mastaba

stepped pyramid

pyramid
burials from the Naqada I, II & III periods, Egypt

tomb of the artisan or servant class, 1st Dynasty (3,200 - 2980), plan and section

MUAS 14,380
the mastaba
mastabas at Giza

MUAS 14,905
restoration of part of the necropolis at Giza

section of a typical Old Kingdom mastaba

Samima Ikram, *Ancient Egypt: an Introduction*  
(Cambridge UP, Cambridge 2010), p 288
cross-section of a shaft mastaba of the Old Kingdom

'Samivel' [pseudonym], *The Glory of Egypt* (London 1955), p 209
Tomb 3038, Saqqara, Dynasty I, time of the sixth king, Az-ib, c 3,200-2980

reconstruction of a royal tomb at Saqqara of the First Dynasty (c 3100 BC)

Jean-Louis de Cenival, *Egypt* (Benedikt Taschen, Köln, no date), p 11
the stepped pyramid
the evolution of the stepped pyramid at Saqqara

Tomb 2038
c 3200-2980
(not shown)

the Zoser complex

Pyramid of Sekhem-Ket

Baines, *Atlas of Ancient Egypt*, p 144
Zoser complex at Saqqara, by Imhotep, Dynasty III, c 2,778, reconstruction

Zoser Pyramid: stages of construction
http://www.arthistory.upenn.edu//zoser/zoser.html (modified)
Stepped pyramid of Zoser, Saqqara, by Imhotep c 2778 BC

Miles Lewis
Pyramid of Sekhem-khet at Saqqara, c 2,700 BC, section

MUAS 14,391
the true pyramid
the Bent Pyramid, Dahshur, c 2650 BC
Jean-Louis de Cenival, *Egypt* (Benedikt Taschen, Köln, no date), p 45
the Pyramids at Giza, all Dynasty IV (c 2,600 BC) aerial reconstruction

Khufu (or Cheops)
Khafra (or Chephren)
Mykerinus

The Pyramids at Giza all Dynasty IV (c 2,600 B C): Great Pyramid of Khufu (or Cheops); Khafra (or Chephren; Mycerinus (last of the three), with mastabas in the foreground

Pyramid of Khafra (Chephren), with Sphinx

MUAS 8,800

Pyramid of Khufu (Cheops), close view from north-west

Miles Lewis
Pyramid of Khufu (Cheops), section
Jean-Louis de Cenival, *Egypt* (Benedikt Taschen, Köln, no date), p 46
chambers of the Great Pyramid, section

Pyramid of Khufu (Cheops): the King’s chamber

chambers of the Great Pyramid, axonometric

Westwell & Pereira, *Ancient Monuments Revealed*, p 23
vegetable influences in Egyptian architecture

rush
papyrus
palm
lotus (waterlily)
Zoser Complex, Saqqara, by Imhotep, c 2,778: reconstructed wall and entrance gate

Miles Lewis
Zoser Complex, underground chamber: imitation of rush mat wall and door roll

Wooden false door of the Stela of Ika, from Saqqara, c 2400 BC

S14,596
Alessandro Bongioanni et al [eds], The Illustrated Guide to the Egyptian Museum in Cairo (Cairo 2001), p 73
naos which contained a statue of Osiris, region of Lake Mariout near Alexandria, Egypt, c 570-526 BC: Musée du Louvre, Paris

Miles Lewis
Zoser colonnade & pyramid

Lewis, *Architectura*, p 242
Zoser colonnade as reconstructed

Lewis, Architectura, pp 242-3
entrance hall of the Zoser complex

detail of a spur wall and reconstruction view

Miles Lewis
Smith, Art and Architecture of Ancient Egypt, pl 17B
palm log roofing
imitated in stone

Zozer complex,
Saqqara, Egypt

House of the South

Entrance Hall

Miles Lewis
Zoser complex: the Great South Court (or Heb Sed Court) with reconstructed buildings on the west side

Miles Lewis
Ma'Dan reed house, Iraq
under construction & complete
MUAS 7014, 7,016

c omparison with the buildings of the Heb-Sed Court, Zoser complex, Saquara
papyrus plants
Knight, *Dictionary of Mechanics*, II, p 2604; Miles Lewis
Zoser complex, engaged columns with papyrus capitals
papyrus plants on the Nile

Miles Lewis; Knight, *Dictionary of Mechanics*
papyrus frescoes from Amarna, now in the Egyptian Museum, Cairo

Miles Lewis
Egyptian columns of the Dynastic period

papyriform (papyrus bundle with closed heads);
bell-shaped (single papyrus stem with open head); palm

evolution of closed papyrus bud columns in Egypt

Jean-Louis de Cenival, *Egypt* (Benedikt Taschen, Köln, no date), p 181
closed papyrus bud capitals

column from Méoamoud, reign of Sébekhotep III, c 1750-1700 BC, Louvre, Paris
capital from Luxor, XVIII Dynasty (c 1600-1300)

Miles Lewis
MUAS 14,916
Wooden model of the pavilion of Meket-Ra, XI Dynasty (2134-1991), Egyptian museum, Cairo
Miles Lewis
comparative Egyptian columns

Deir el-Bahari
Deir el Bahari, aerial view of the Temple of Mentuhotep and the Temple of Hatshepsut

mortuary temple of Mentuhotep, Deir el Bahari, c 2100 BC
alternative reconstructions

mortuary temple of Mentuhotep, Deir el Bahari, c 2,100: reconstruction
MUAS 9,931
Temple of Hatshepsut, Deir el Bahari, by Senmut, Dynasty XVIII (c 1500 BC)

MUAS 14,371
Hatshepsut’s Mortuary or Memorial Temple, by Senenmut, c 1500 BC, plan

temples
plan of the Middle Kingdom temple at Tod

typical New Kingdom temple: pylon gate, courtyard, hypostyle hall, sanctuary

Pemberton, *Ancient Egypt*, p 29
temple complex, Karnak Thebes (1,530-332 B.C)
view with the surviving elements restored, by Charles Chipier

Great Temple of Amon at Karnak: plan

- first shrine c 2000 BC
- present complex c 1530-332 BC

Pylons VII & VIII at right angles led to a Temple of Amenhotep I, c 1300

Hypostyle hall, after 1300

detached temple by Ramses II, later incorporated into the courtyard by Sheshonq I (950-929)

first pylon later, never complete

MUAS 9,394
Temple of Amon, Sphinx Avenue and temple entrance

Temple of Amon, entrance

Great Temple of Amon: axial view in the forecourt

Miles Lewis
Great Temple of Amon
Pillars set up by Tuthmosis III

papyrus
(symbolising Lower Egypt)

lotus
(symbolising Upper Egypt)

MUAS 4,605
Temple of Amon, Pylon II, in a 19th century aquatint after an Egyptian relief

Temple of Amon
interior of the hypostyle hall
Miles Lewis
Temple of Amon, hypostyle hall
view and diagram of clerestory roof construction

de Cenival, *Living Architecture: Egyptian*, p 140
MESOPOTAMIA

the valley of the Tigris and the Euphrates rivers
(within modern Iraq)

Protoliterate c 3500-3000 BC
Early dynastic c 3000-2340
Neo-Sumerian c 2125-2025
Isin-Larsa c 2025-1763
Early Assyrian, c 1350-1000
map of Mesopotamia

Abbadeh village (Al 'Ubaid), Iraq, c 4000 BC reconstruction by S Aboud

'White' Temple of Anu at Uruk [Warka], view & plan

Frankfort, *Architecture of the Ancient Orient*, pl I
temples dedicated to the god Anu, Uruk (or Warka),
axonometric after E Heinrich, H J Lenzen & M J Schmidt

Amiet, Art of the Ancient Near East, p 545
Northern Temple, Tepe Gawra Acropolis, stratum XIII, 3rd millennium

view & plan

MUAS 14,612
Frankfort, *Architecture of the Ancient Orient*, p 3
Temple at Khafaje, Early Dynastic period (3,000 - 2,340)

Sumerian reed house, Al 'Ubaid, diagram of wall construction

Ma'Dan reed house, Iraq

Plommer, Ancient and Classical Architecture, p 62
MUAS 7,016
Statue of King Gudea from Telloh, c 2,100
Musée du Louvre
Miles Lewis

Gudea’s plan and a reconstruction of his instruments
Temple of Ishtar-Kititum
at Ischali, Isin-Larsa
period, reconstructed
view

Frankfort, *Architecture of the Ancient Orient*, p 54
Ishtar Temple of Tukulti-Ninurta I, Early Assyrian (c 1,350-1,000): reconstructed view

possible prototype for the anthemion and palmette
dado
rosettes
paired animals

Palace of Tukulti-Ninurta I, c 1,350 - 1,000: wall painting

Frankfort, *Architecture of the Ancient Orient*, pp 68-9, pl 74A
city of Ur: reconstruction model showing the Ziggurat, Palace, &c.

MUAS 28,958
the Ziggurat at Ur, c 2000 BC: reconstruction

Woolley, *Excavations at Ur*
Ziggurat at Ur, modern reconstruction

Miles Lewis [ed], *Architectura* (Lane Cove [New South Wales] 2008), p 21
the ziggurat, Choga Zanbil [Dur Untash], Iran, C13th BC
Miles Lewis
Choqa Zanbil ziggurat, initial state and with the ziggurat, after R Ghirshman

the ziggurat, Choga Zanbil, reconstruction view from the south

the ziggurat, Choga Zanbil, plan

Choga Zanbil, inscribed bricks

N Pourjavay [ed], *The Splendour of Iran Volume I* (Booth Clibborn Editions, London 2010 [2001], p 150)
Choga Zanbil, passage and arch

Miles Lewis
knobbed ceramic plaques C13th BC

Haft Teppah Museum, Iran; Musée du Louvre, Paris

fixing of ‘plaques de pommeau’
Ghirshman, *Tchoga-Zanbil I*, p 75
house at Ur, c 1900 BC:
section, plan & reconstructed view of courtyard

Plommer, *Ancient and Classical Architecture*, p 63
house at Lagash, Isin Larsa period (2025-1594): plan

house at Dura-Europos, AD c 230, axonometric view

MUAS 14,621