

Production techniques / technology used
to create monuments and art objects

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What do we already know about...

Production techniques / technology?

Inventions?

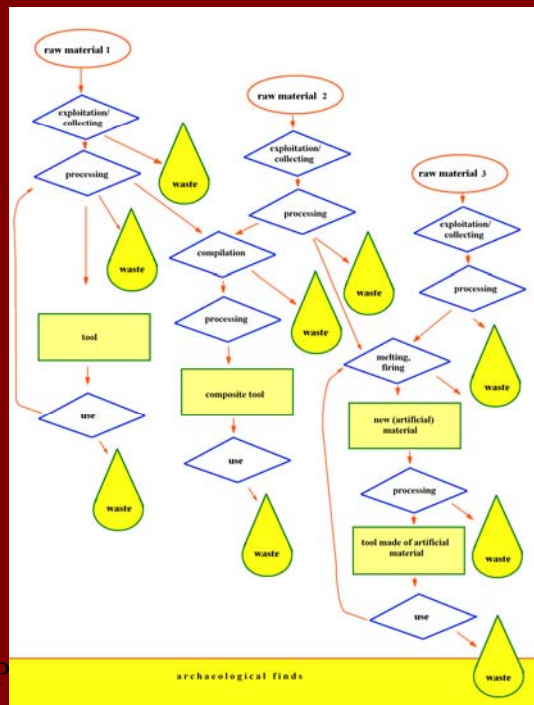
Archaeological time scales and chronological systems?

Archaeological sites, site formation?

Monuments and art objects?

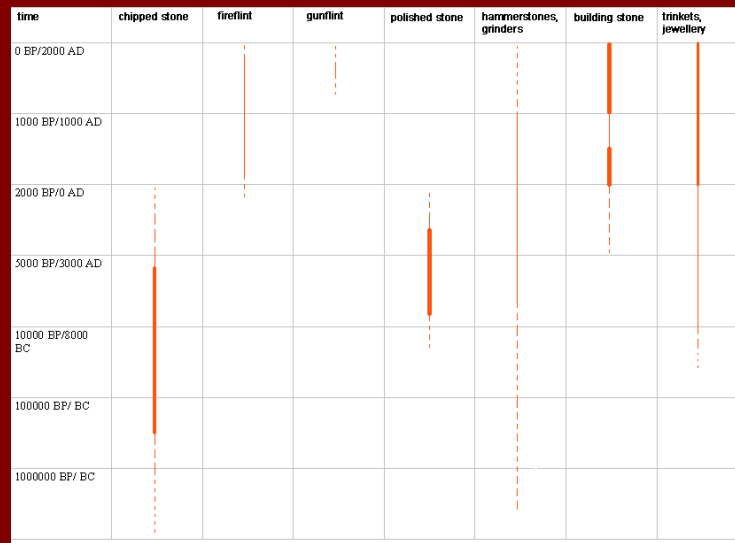
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General scheme:
from raw material to archaeological find

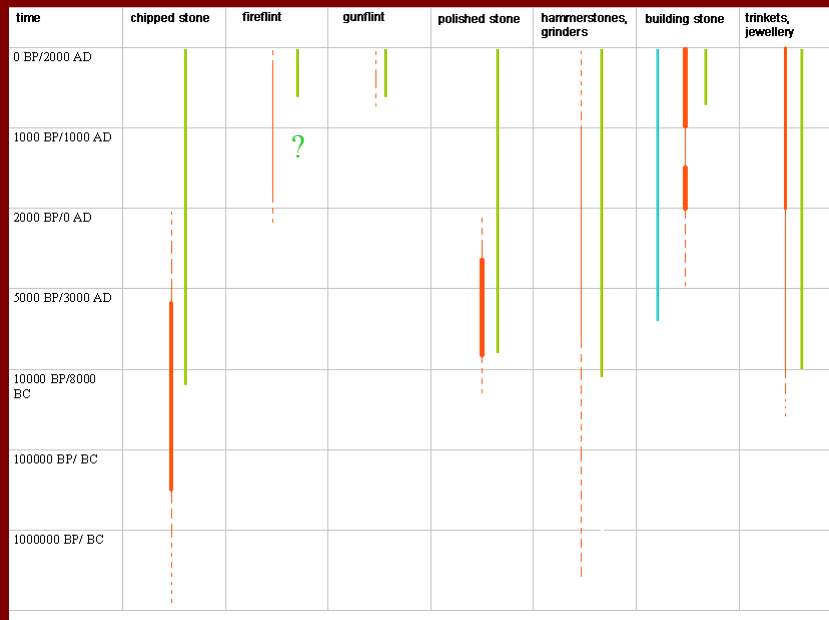


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Unequal pace of
technical/cultural
development



Unequal pace of technical/cultural development



Prehistory

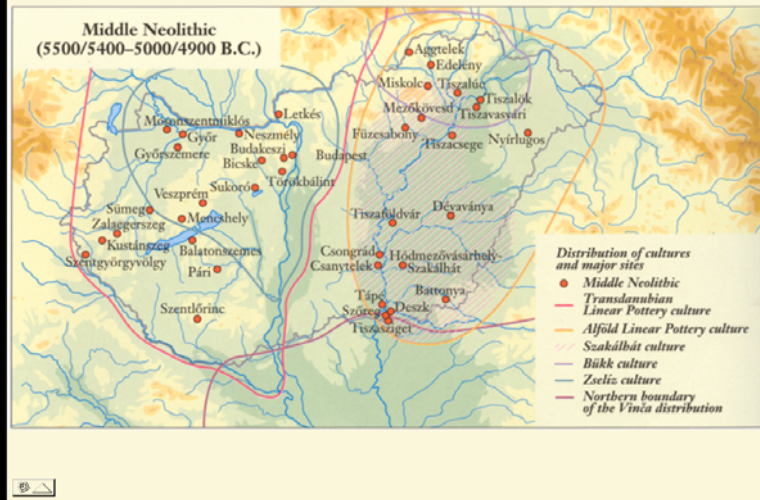
Traditional division:

- stone age
- bronze age
- iron age

Concept of cultures

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Prehistory



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Prehistory

„Lithic” periods

- HG societies
- early agriculturalists

Earliest metals

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Palaeolithic lore

Lower Palaeolithic
obsidian tools, N Africa
(1.8 Ma), after
(Gowlett—Crompton
1994, Fig. 12



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Palaeolithic lore

Early Upper Palaeolithic
leafpoints, Szeleta cave
(cca. 36 kyear)



Visy ed., Hungarian Archaeology at the turn of the Millennium

Palaeolithic lore

Upper Palaeolithic stone
tools, Bodrogkeresztúr
(cca. 28 kyear)



Visy ed., Hungarian Archaeology at the turn of the Millennium

Palaeolithic lore

Lower Palaeolithic bone
fragments used for fuel,
Vértesszőlős (0.4 Ma),

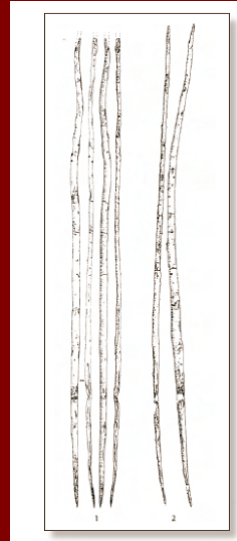


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Palaeolithic lore

Schöningen, Lower
Palaeolithic wooden
spears (400 kyear)

Thieme, H. 1999. Altpaläolithische
Holzgeräte aus Schöningen, Lkr.
Helmstedt. Bedeutsame Funde zur
Kulturentwicklung des frühen Menschen.
Germania 77, 1999, 451-487.

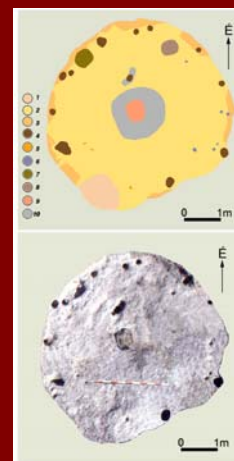
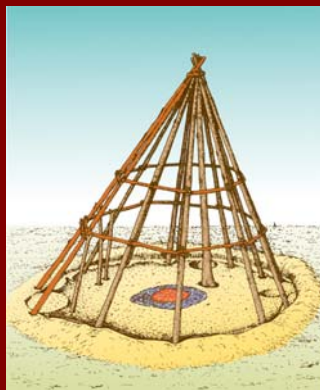


http://www.uni-greifswald.de/~histor/~ufg/mitarbeiter/terberger/Terberger1_LoRes.pdf

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Palaeolithic lore

Mesolithic construction
Jásztelek (cca. 10 kyear)



Visy ed., *Hungarian Archaeology at the turn of the Millennium*

Palaeolithic lore

Mezhirich House 4 Reconstruction



Palaeolithic lore

Earliest ceramics

Dolní Vestonice

27 kyear

burnt in kiln



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Palaeolithic lore



FIG. 3. Batten fragment from Dolní Věstonice I, mammoth rib (photo O. Soffer).

Recovering Perishable
Technologies through Use Wear on
Tools: Preliminary Evidence for
Upper Paleolithic Weaving and
Net Making¹

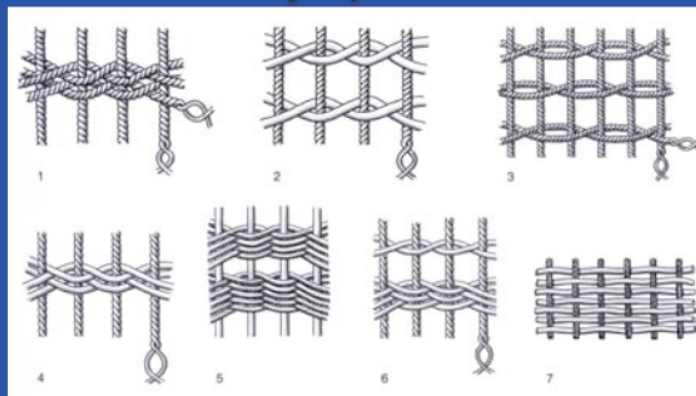
Olga Soffer

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uiuc.edu). 15 i 04

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Palaeolithic lore

Gravettian Weave Types (Moravia) Clay Impressions



Olga Soffer

Palaeolithic lore

<http://pwp.netcabo.pt/jbmiranda/lascaux.gif>



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Early agriculturalists



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Early agriculturalists

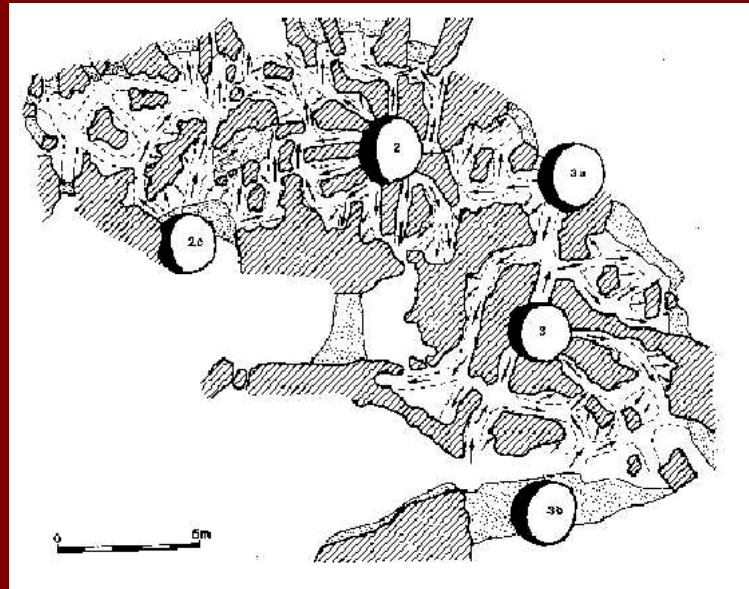
Das mit 7000 Jahren älteste Sonnenobservatorium der Welt in Goseck (Archivbild) gilt als Meilenstein in der Archäologie und Astronomie



http://pg.squids.images.focus.de/img/gen/N/F/HBNFAbLaWp6_Pxgen_r_385xA.jpg

Early agriculturalists

Model of complex flint mine



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Early agriculturalists

Krzemionki



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First metals

Tool kit from Szeged-Szillé



Fig. 15. Gold discs. Guford, early phase of the Middle Copper Age, Balaton-Lajta culture

Fig. 16. Large gold pendant. Hatvan, Middle Copper Age, Badacsony culture

Visy ed., Hungarian Archaeology at the turn of the Millennium

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Early State skills

Gizah, Egypt



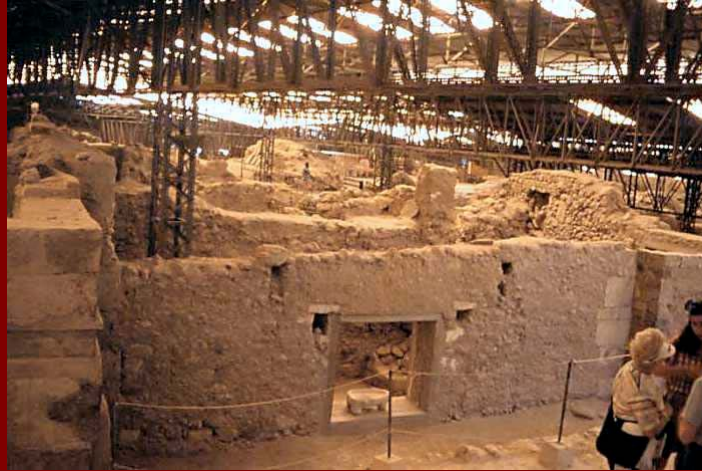
Early State skills

Teotihuacan



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Ancient civilisations



<http://jfbradu.free.fr/GRECEANTIQUE/crete/santorin/akrotiri/akrotiri.htm>

Ancient civilisations

*A plaster cast of a
Theran table of
1650 BC (coloured
by me to make it
look like wood)*



http://www.mmtaylor.net/Holiday2000/Santorini/Santorini_pictures/Akrotiri.table.wood.jpg

K. T. Biró, ELIACON course 25/01/2007

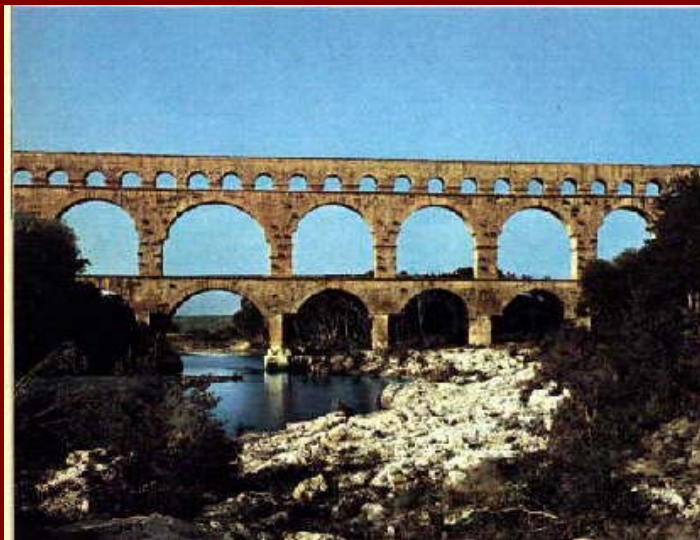
Ancient civilisations



<http://amberroad.menrich.com/hu/szombathely.htm>

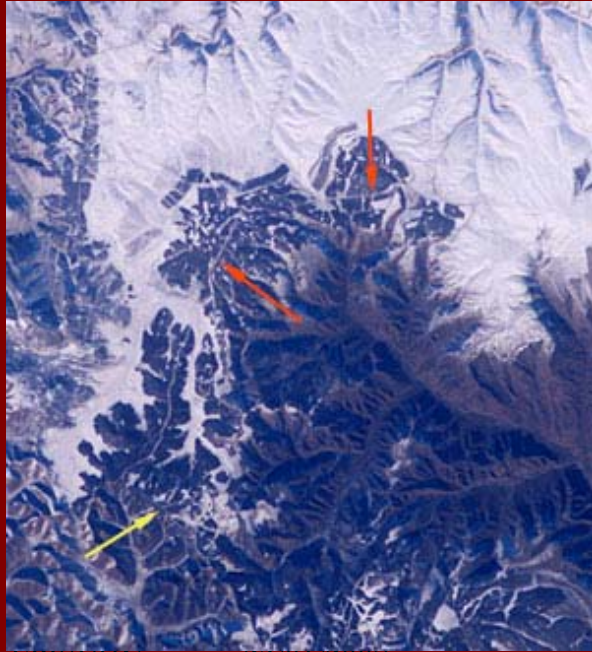
Ancient civilisations

Pont du Gard in France



<http://www.zum.de/Faecher/Materialien/bosch/latein/aqaedukt.jpg>

Ancient civilisations



http://www.nasa.gov/vision/space/workinginspace/great_wall.html

07

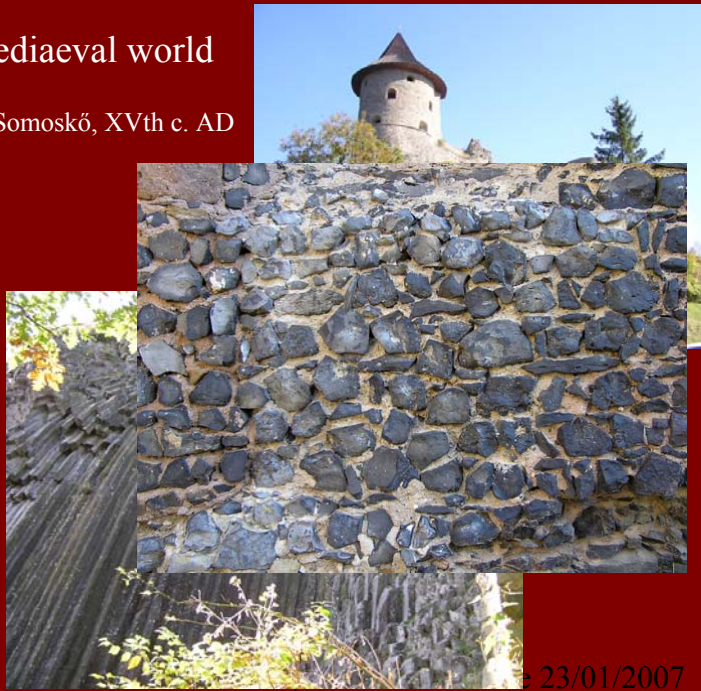
Ancient civilisations



<http://esamultimedia.esa.int/images/Proba/cina.jpg> K. T. Biró, EPISCON course 23/01/2007

Mediaeval world

Somoskő, XVth c. AD



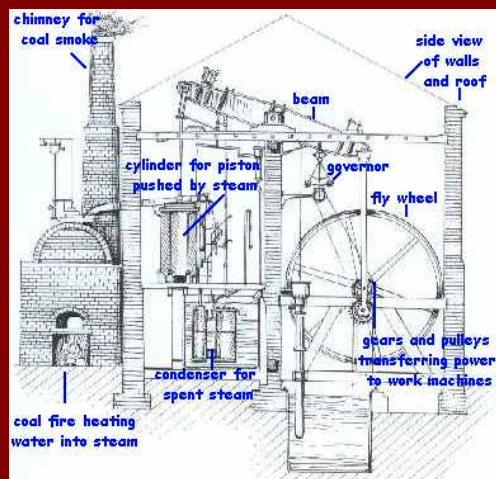
time
0 BP/2000 AD
1000 BP/1000 AD
2000 BP/0 AD
3000 BP/3000 AD
10000 BP/8000 BC
100000 BP/ BC
1000000 BP/ BC

23/01/2007

Early industrial societies

http://people.csp.edu/saylor/courses_Fall2005/HIS121/Watt%20steam%20engine.jpg

Watt's steam engine



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Monuments and art of modern age

http://www.rsportscars.com/eng/articles/images01/ferrari_fxx.jpg



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Monuments and art of modern age



http://www.geocaching.hu/logimages/2006-03/3033_20060326_073921.jpg

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Monuments and art of modern age



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Monuments and art of modern age

Light pollution (1)



<http://www.astronomy.org/StarWatch/November/index-11-01.html>

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Monuments and art of modern age

Light pollution (2)



<http://www.planetmountain.com/News/2005/12/nightsky02.jpg>