Last time...

- What defines the genus Homo?
- When does Homo first appear? Where?
- How do we identify these fossils as Homo rather than Australopithecus?
- How are Homo habilis different from the other hominids they are contemporaneous with?

Olduwan tools

- What are Olduwan tools?
- How are they made?
- When are they first found and with which species?

Adaptive pattern

- How does the adaptive pattern of early Homo differ from that of the Australopithecines?
- Why was brain size selected for?
- What else changes in adaptation when brain size increases?

H. habilis v. H. erectus

- What makes these two species different?
- When are they found in time? space?

Possible Homo species

Homo habilis —

Sometimes the same

- Homo rudolfensis
- Homo ergaster
- Homo erectus

Sometimes the same

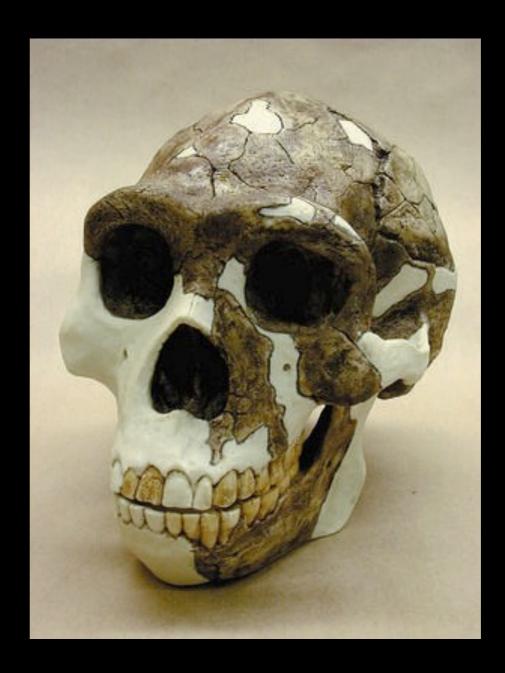
Homo erectus

- Who is Homo erectus?
- Where is this species found?
- In what time frame?
- What are its identifying anatomies?

Homo erectus lifeways

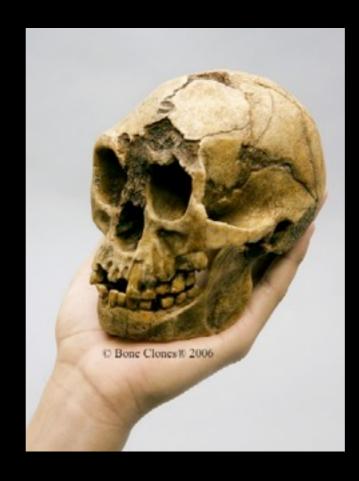
- tool technologies that reflect advanced cognitive skills
- Dietary shift to a more heavily meatbased diet than its predecessors

Zhoukoudian 300 kya



Homo floresiensis *95,000-13,000*















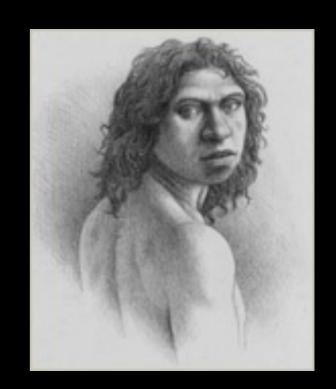
Homo antecessor / Homo erectus?

Atapuerca 1.2 mya

Atapuerca 800,000









Cranial capacities

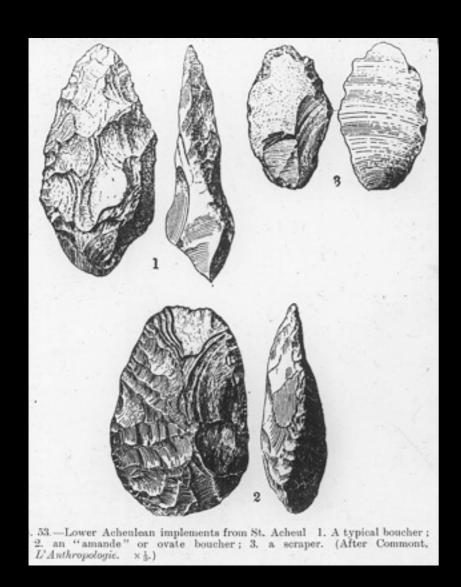
	Cranial Capacity
Africa	690-1067
Indonesia	800-1250
China	855-1225

Cultural changes

- Greater home range -SIGNIFICANTLY
- More complex stone tools
 - Acheulean industry



Acheulean handaxes

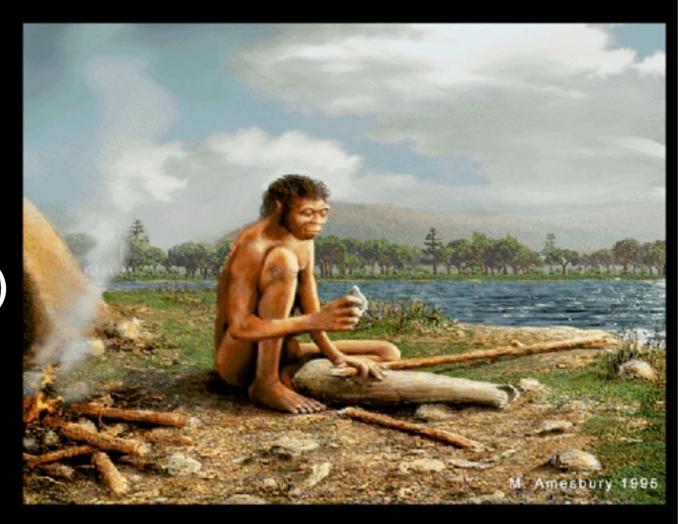






Cultural changes

- Control of fire (?)
- Construction of shelters (?)
- Crossing of water



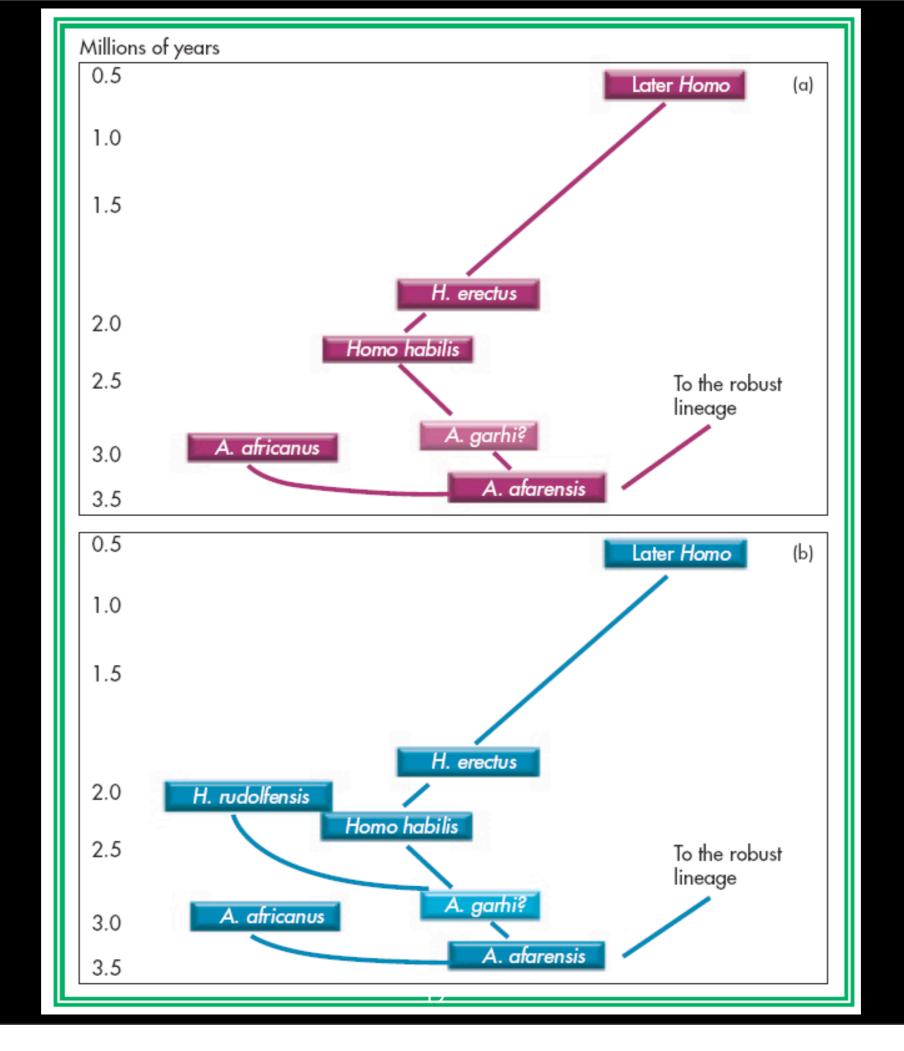
Cultural changes

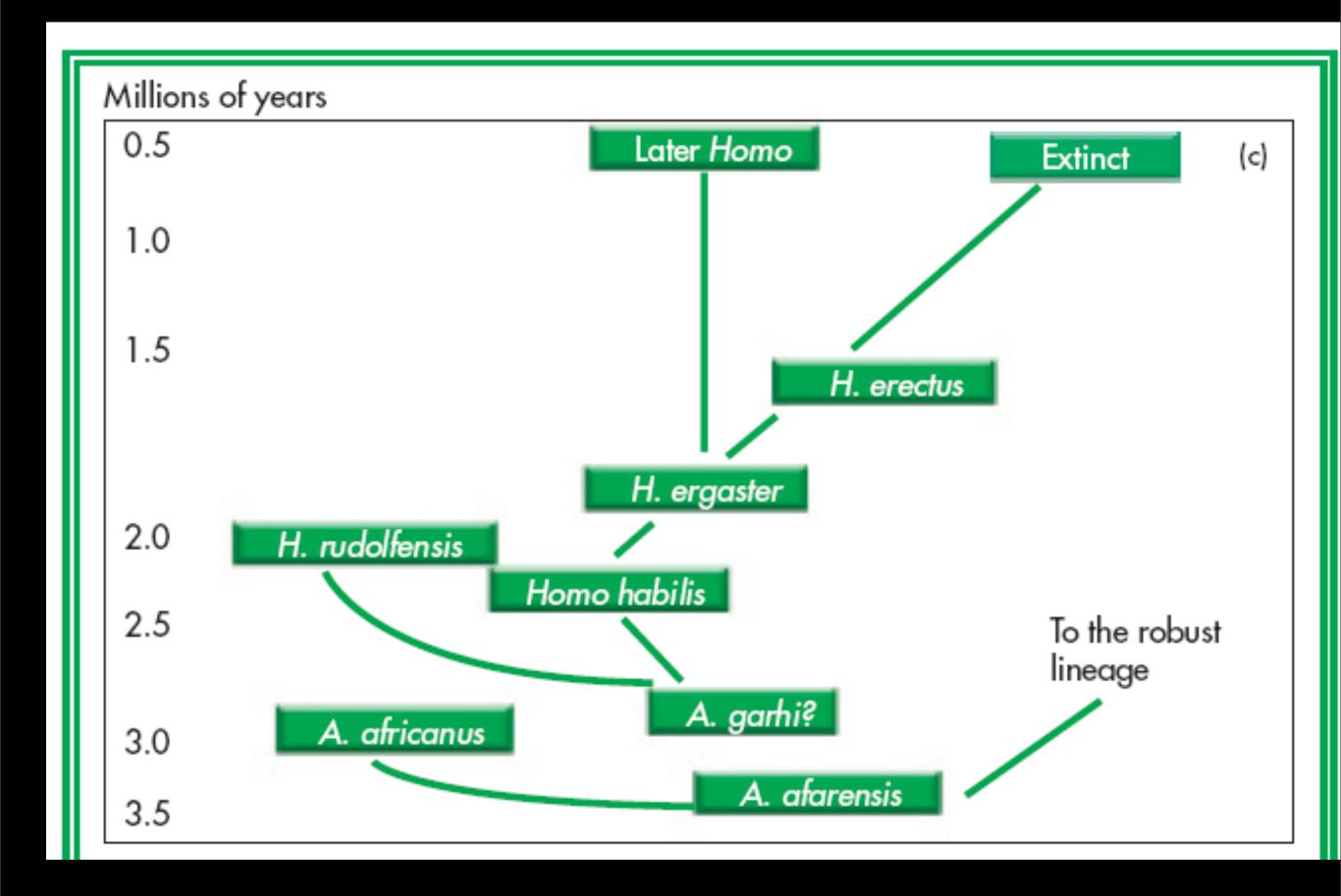
- Care of elderly (over 40!)
- More complex stone tools
 - Acheulean industry

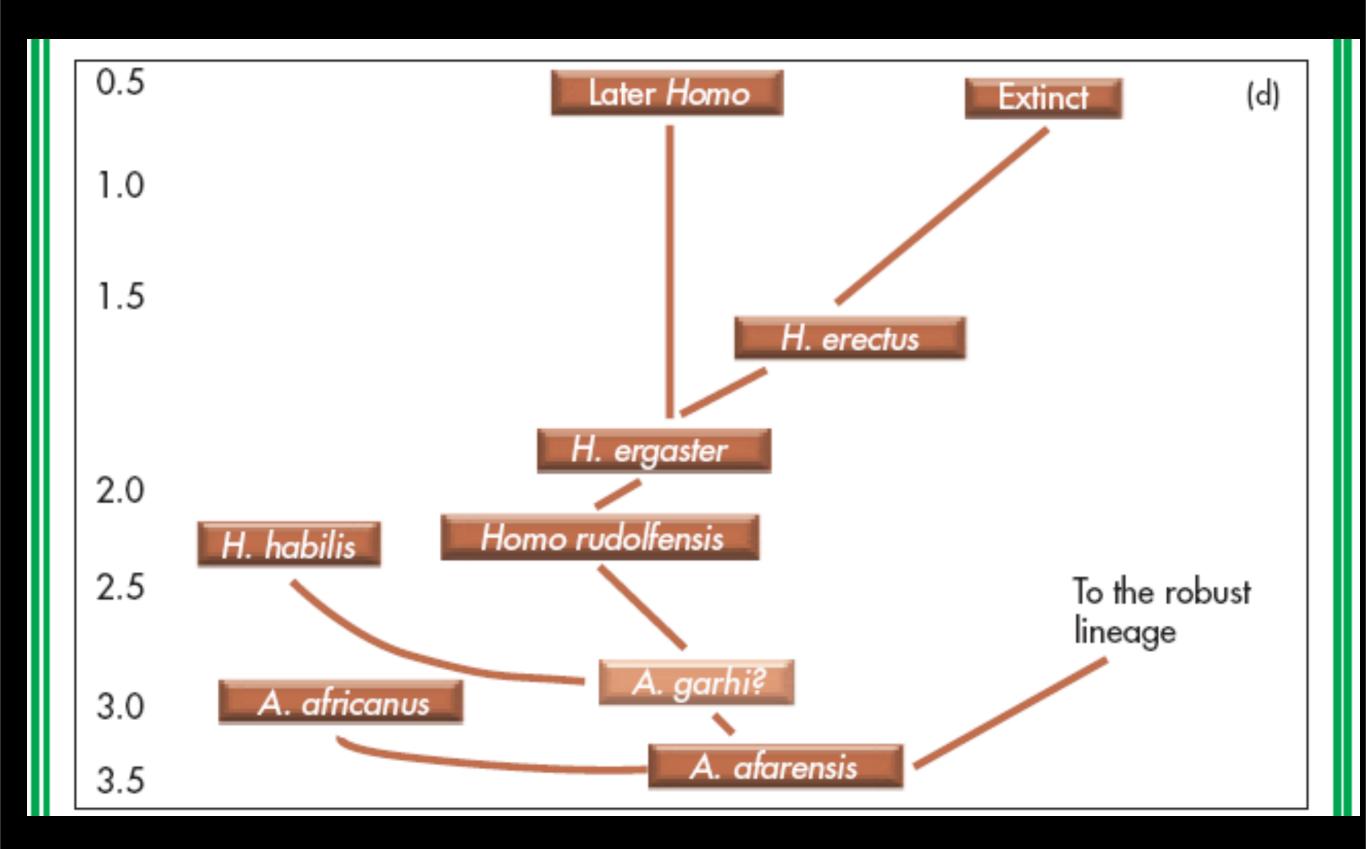


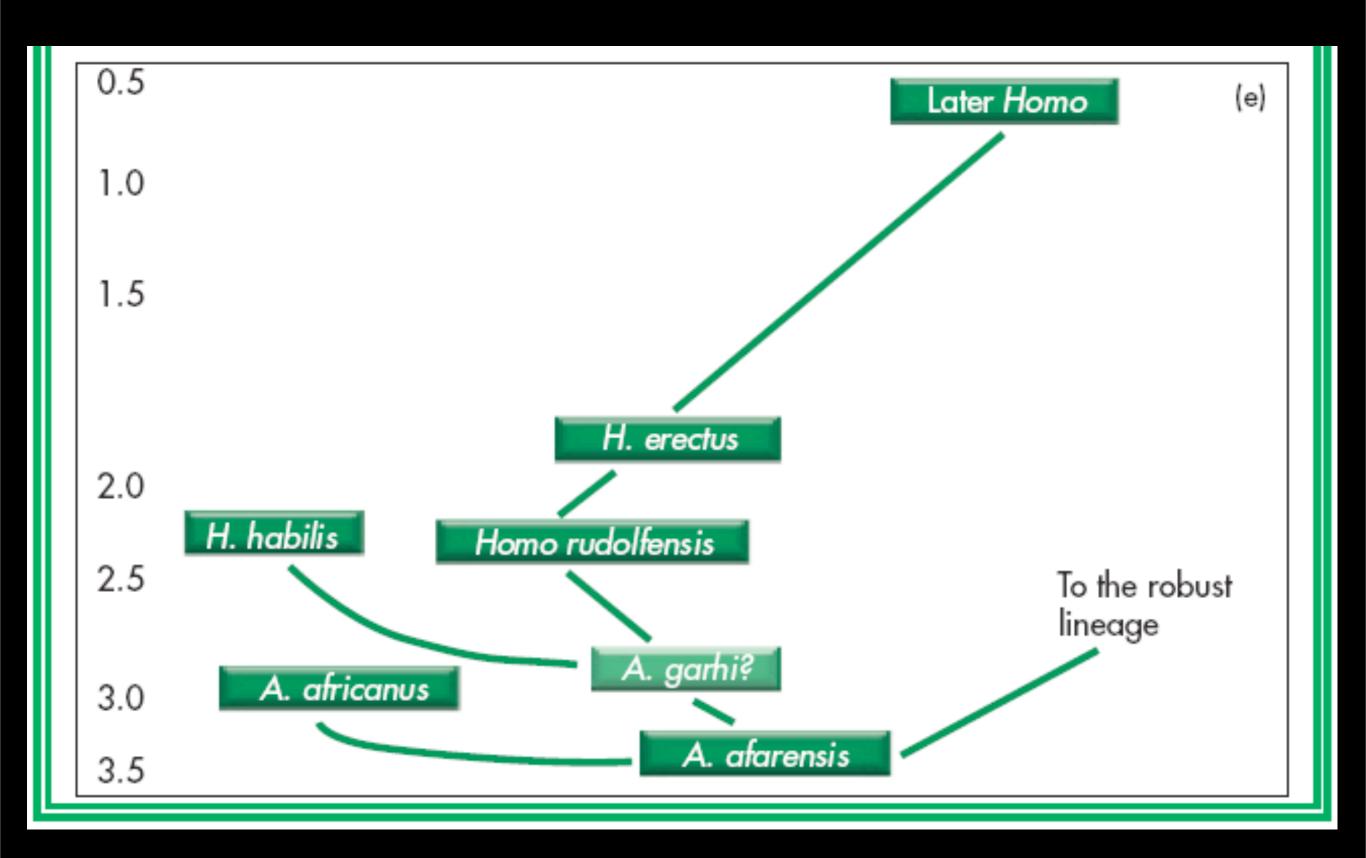
What is special about Homo erectus

- Left Africa
- Made more complex stone tools
- Controlled fire
- Constructed shelters
- Modern human proportions and big brains









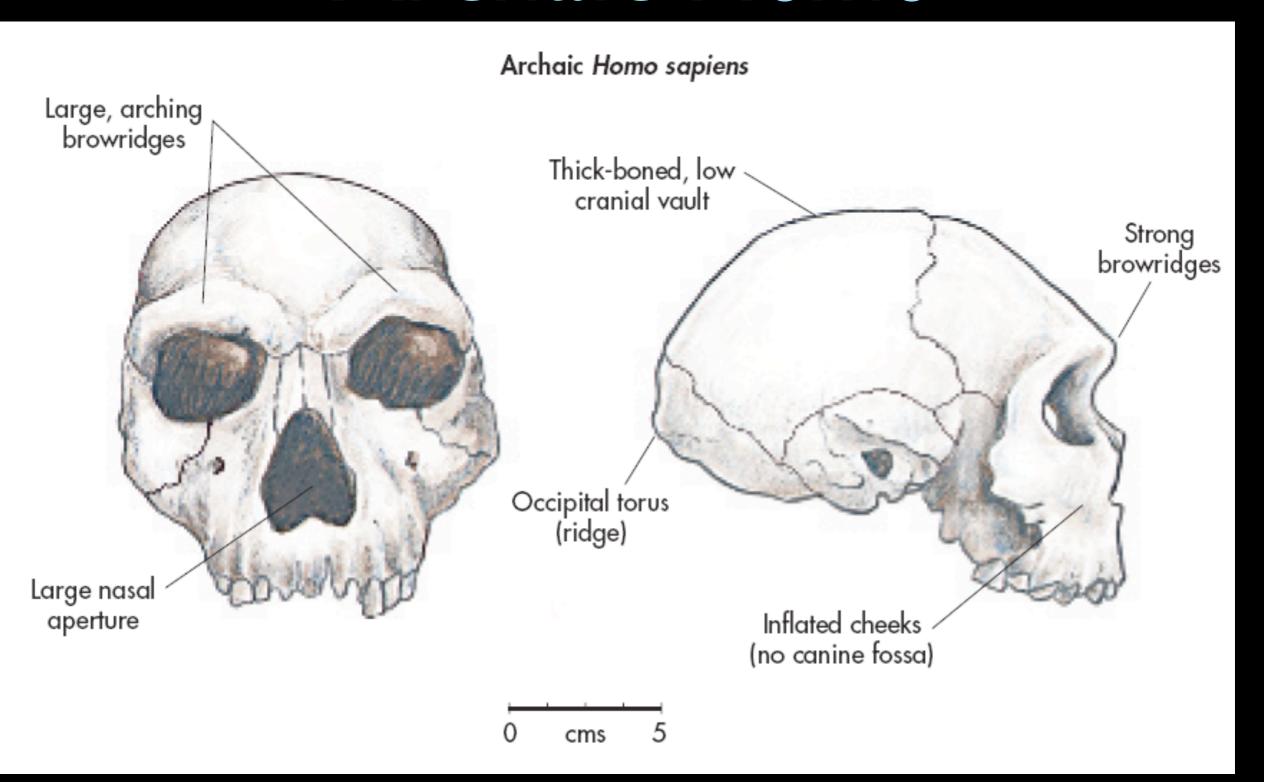


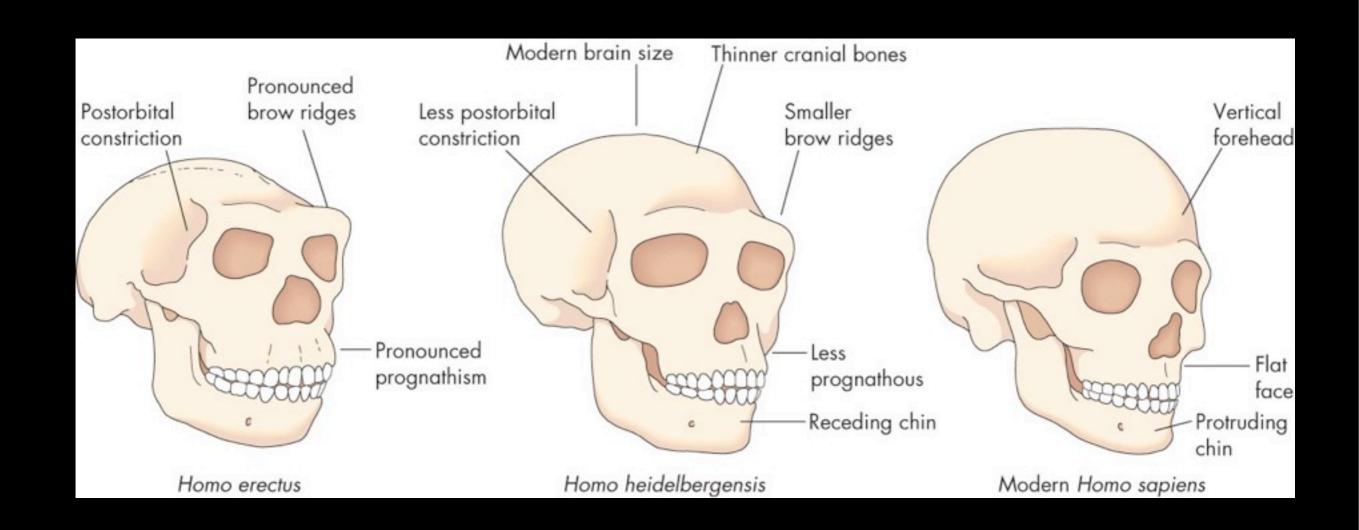
H. erectus



archaic Homo

Archaic Homo





Archaic Homo

- bigger brains
- higher skull
- less pronounced brow ridges
- chin?
- less prognathism

Time frame

```
modern
160

H. neanderthalensis?
300 27

H. heidelbergensis?
600 200
```

l my 500 k

"Species" of Archaic Homo

- Homo heidelbergensis
- Homo rhodesiensis
- Homo neanderthalensis
- + More

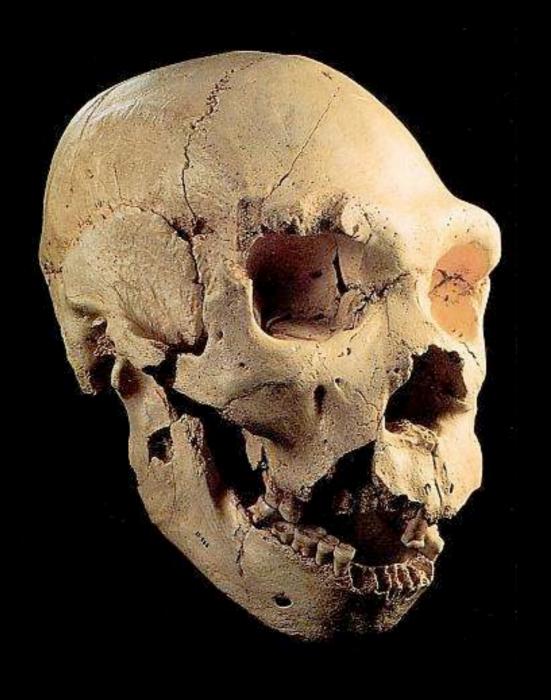




Bodo 600,000



Kabwe



Atapuerca 5

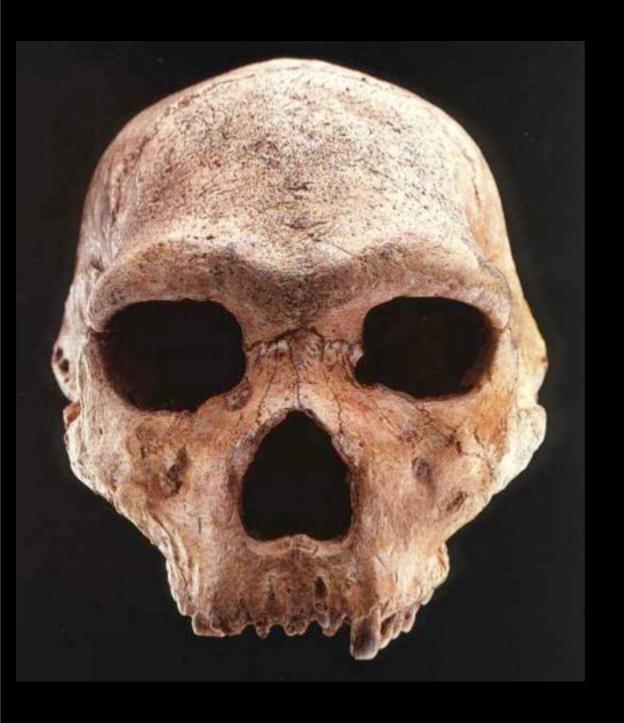








Mauer



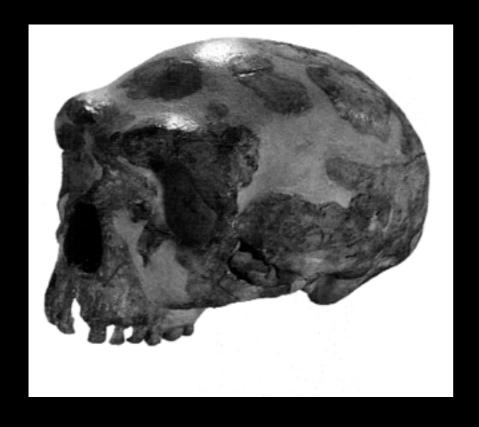


Petralona





Dali





Jinnuishan



Maba