Homo erectus behavior

- What behavioral changes are found in Homo erectus?
- · What is the adaptive pattern?
- What sorts of tools are found with Homo erectus?

Archaic Homo

- · What are "archaic Homo sopiens"?
- · Why do we call them archaic?
- · What features do they show?
- · How are they distinguished from Homo erectus?
- What "species" are archaic Home sometimes divided into?



H. erectus



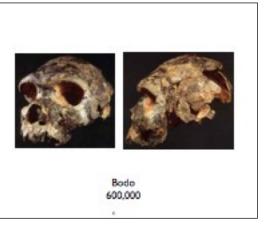
archaic Homo

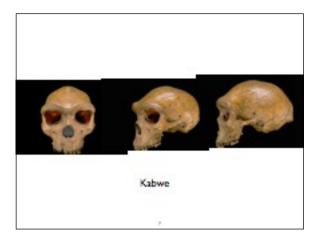
More on archaics

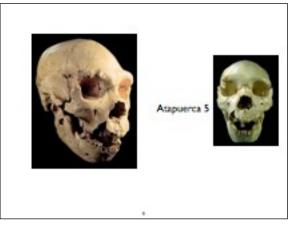
- · What other species names are they known by?
- · Why would they be put into other species?
- · What does it mean to say that they are mosaic?

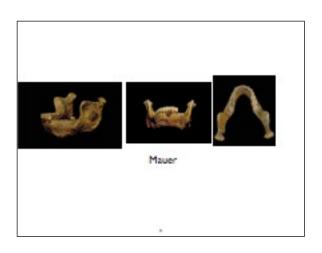
Evolutionary Models

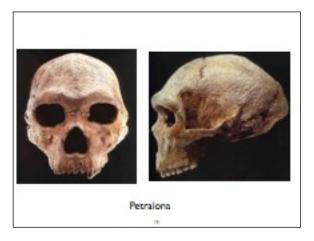
- Models of human evolution from Homo habits to Homo sopiens can usually be divided into two paradigms what are these!
- In each model, where do the various "species" of archaic Homo fall?
- · What are the differences between the paradigms?
- · What is the role of gene flow in these models?
 - How much gene flow is necessary to keep two populations from speciating?
- · What are anagenesis and cladogenesis?



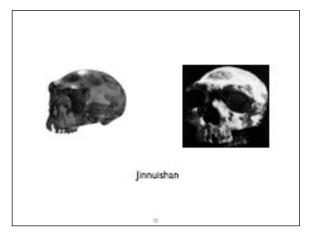


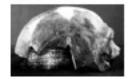












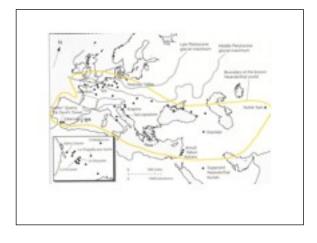
Mabe

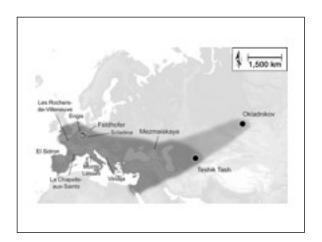
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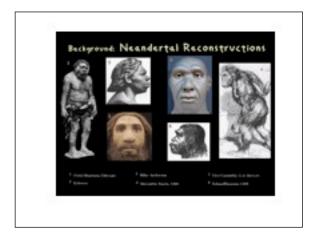
Neandertal facts

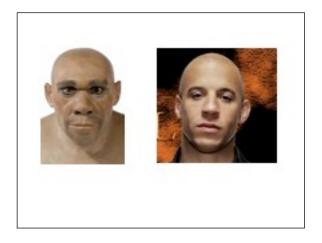
- · Special case of Archaic Homo
- First discovered 1830
- · Europe and the Near and Middle East
- Date between 150,000 and 27,000 years ago
- · Hundreds of individuals known
- Show robust, cold-adapted anatomy















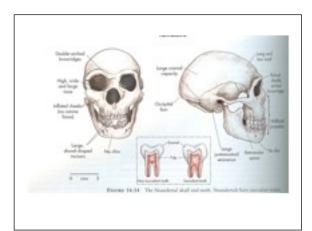


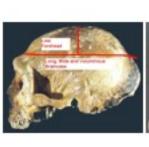


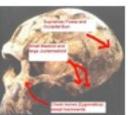
Modern reconstructions

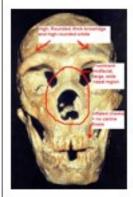
Neandertal features

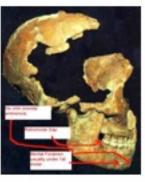
- . Mean cranial capacity of 1400 cc up to 1600
- Large projecting midfaces
- Retromolar gap
- · Supraorbital torus, double arched
- · Receding frontal bone
- Occipital bun









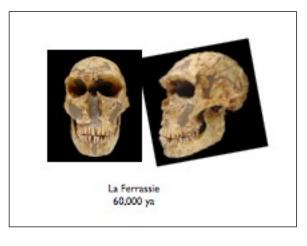


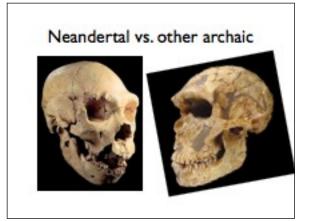
Neandertal features

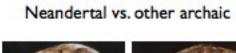
- · Barrel shaped chest, stockler than modern humans
- Short limbs, short stature
- · Heavy musculature
- · Very high traumatic fracture rate

Neanderthal and modern human skeletons





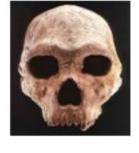








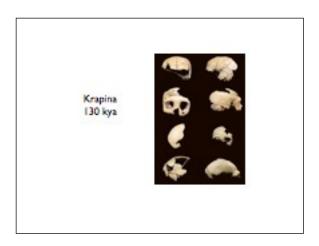
Neandertal vs. other archaic

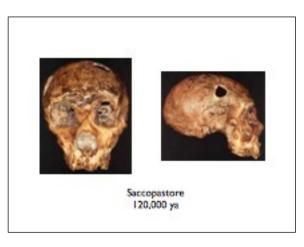






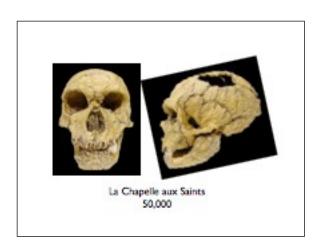
Neanderthal

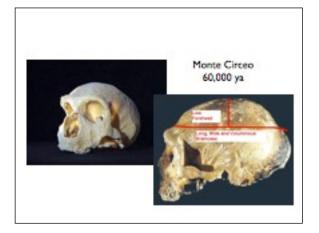


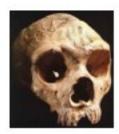




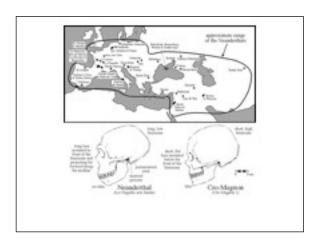








Gibraltar 30 kya ř





Amud



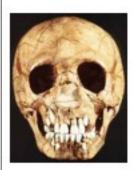
Kebara 60 kya







Shanidar





Teshik Tash

Who were the Neandertals?

- · Their own species or something different?
- A regional subpopulation adapted to the cold?
- Homo neandertholensis or Homo sapiens neandertholensis?
- Just another form of archaic?