Last class

- · Who were the Neandertals?
- · Where and when are they found?
- · What are their distinctive morphologies?
- Why do we separate Neandertals from other archaic humans?

More...

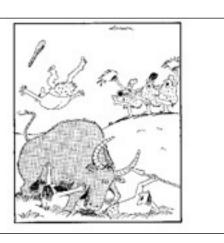
- What is the relationship of the Neandertals to the other archaic humans and to modern humans?
- Why are Neandertals often considered to be separate than the other archaic humans!

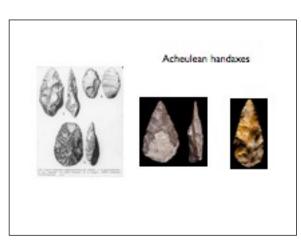
Archaic behavior

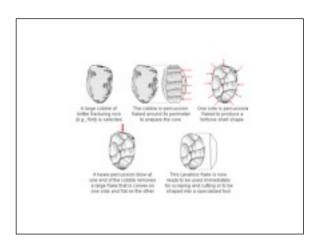
- All the archaics no matter what you call them show similarities in their behavior
- · Shelter building
- New stone tool making techniques
- Organized hunting behavior spears big game hunting
- Burial

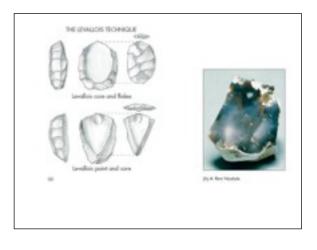


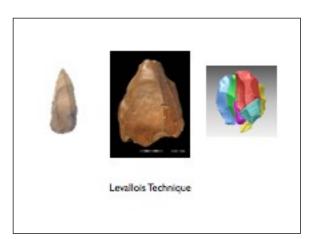
Wood Shelter, 300,000 years ago Terra Amata, France

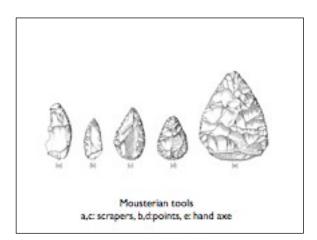


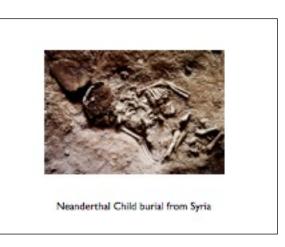














Cultural features

- · Take care of injured and elderly
- Buried their dead
- · Evidence of personal adornment
- · Evidence of community living
- Language gene FOXP2



- Show mix of modern and archaic features
- Show mix of modern and archaic behaviors
- More modern behaviors than some of the "anatomically modern" Homo sopiens



Modern reconstructions













"Modern" Humans

- · Start to appear around 160,000 years ago in Africa
- · What makes them modern?
 - · Mostly more gracile than the archaics
 - No miraculous moment when it first appears

Neanderthal DNA Westernament State State

Modern features

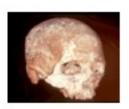
- high, rounded cranium (greatest breadth high on the partests)
- less suprastructure development
- tall, nearly vertical frontal bone
- face larger under the cranium



Modern features

- mean cc 1350 (range 1000-2000)
- · small teeth
- CHIN
- early ones show more primitive technologies, later share technologies with Neandertals







Modern variety





Herto Bouri Ethiopia 160,000-154,000

Laetoli 18 129,000-108,000







Omo 130,000 - 60,000

Omo 2



Klasies River Mouth 118,000-60,000



Jebel Irhoud 127,000 - 87,000





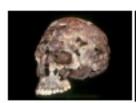
Florisbad 100,000

African Moderns

- · Earlier than elsewhere in the World
- · 100,000-160,000
- Mosaic of morphologies, leaning towards the modern

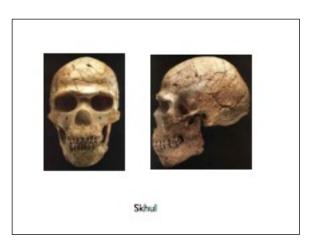
Western Asia

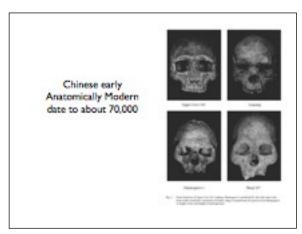
- Moderns either simultaneous with Neandertals or leapfrogging them
- Mosaic



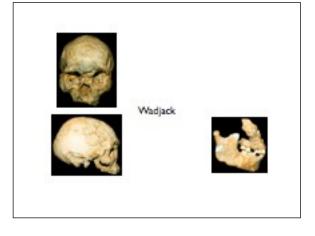


Qafzeh















Willandra Lakes

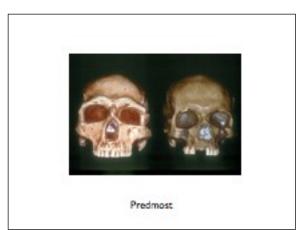


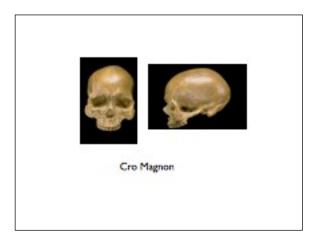


Coolbool Creek 14,000 ya

Asia summary

- Modern from at least 70,000
- · With some very robust features
- On Australia from about 60,000





Where and When

Africa	160,000-120,000
Near East	100,000
Asia	70,000
Europe	30,000