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
Levallois Technique

 Mousterian tools
a: scrapers, b,d: points, e: hand axe

Neanderthal Child burial from Syria

Kebara
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 sapiens

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

Modern features

- high, rounded cranium (greatest breadth high on the parietals)
- 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 Neandrals

Modern variety

Herto Bouri
Ethiopia
160,000-154,000

Laetoli 18
129,000-108,000
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
Skhul

Chinese early
Anatomically Modern
date to about 70,000

Zhokhovian
Upper Cave
30,000

Wadjak
Asia summary

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

Cro Magnon

Where and When

<table>
<thead>
<tr>
<th>Region</th>
<th>Date</th>
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</thead>
<tbody>
<tr>
<td>Africa</td>
<td>160,000-120,000</td>
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<tr>
<td>Near East</td>
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<td>Europe</td>
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