Archaic behavior

- What sorts of behaviors are first seen among the archaic humans, including the Neandertals?
- What sorts of tools were they making?
- How were they hunting?
- What was special about their behavior?
- What do these mean about the human adaptation at this time?

Modern Humans

- What are Anatomically Modern Homo sapiens?
- Why are they so hard to define?
- What features are used to define anatomic modernity?
- When and where do these features first appear?

Spread of Modern Humans

- When and where do modern humans first appear?
- When do they appear elsewhere in the world?
- Do all modern humans across the world show the same morphologies?
- Where is the last place that we find modern humans?

Modern features

- high, rounded cranium
  (greater 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 Neandertals

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
Asia summary

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

Cro Magnon

What is “Modern Behavior”?

- language?
- complex tools?
- art?
- boats?
- exploiting new resources?

Getting to Australia....
Tool industries

- Upper Paleolithic - modern humans
- Middle Paleolithic - Mousterian - Archaic humans
- Lower Paleolithic - Acheulean and Oldowan - early Homo

Pressure Flaking

Upper Paleolithic tools
Atlatl

The Atlatl or throwing stick was used to throw darts by Eskimos and Australian Aborigines. Evidence from North America suggests it predates most of the Mesolithic.

Upper Paleolithic Northeast Asia
Venus of Willendorf
25,000 ya
Austria

Pendants and Figureine
from Dolni Vestonice
25,000

South Africa Shell Beads -
75,000 ya
Neandertal ornamentation?
Spain, 50,000

Upper Paleolithic Clothing?
Bear tooth bead
18,000

Parietal art from
Upper Paleolithic Europe

Lascaux
Parietal Art, China

Aboriginal Rock art dates to as far back as 40,000 years

Wall Paintings from Queensland Australia

And then what?

- Significant anatomical and behavioral changes
- Modern humans spread around the world
- Population size greatly increases