Midterm

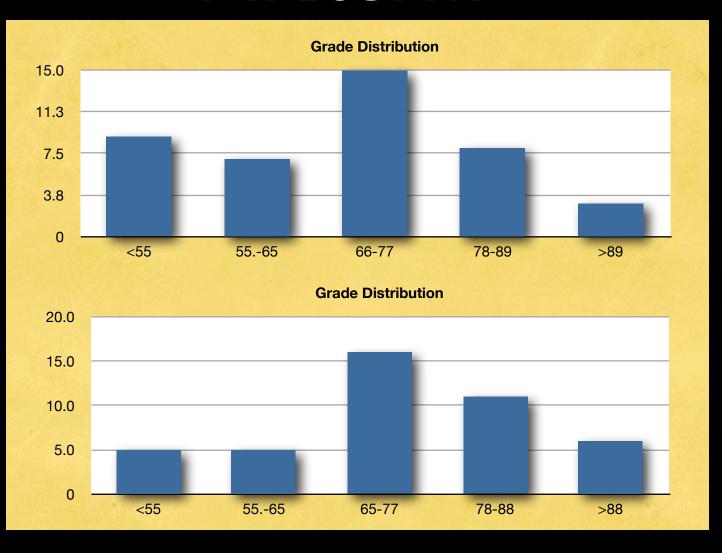
E	50	
T	92	83%

Highs: Midterm 59, total 128.5 Midterm 53, total 123.5

Midterm

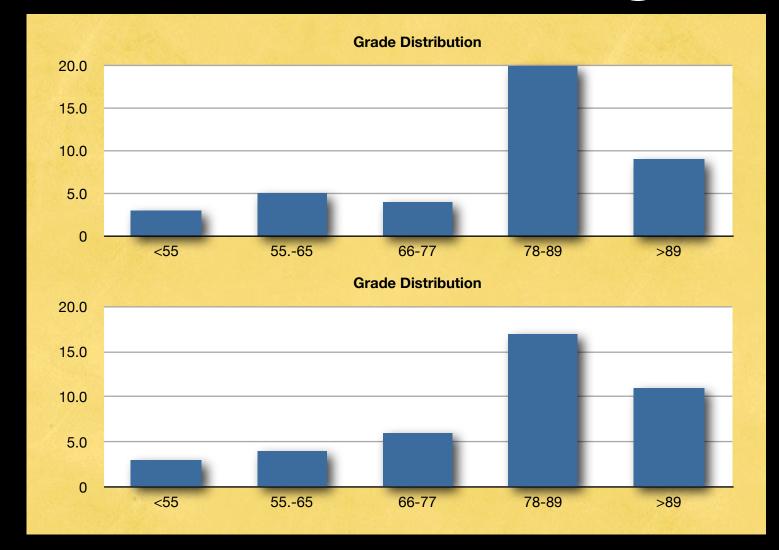
10:30





Current Percentages

10:30



noon

Last time...

• Who are the modern primates?

- What are their two major divisions?
- What is the geographic range of living primates?
- What is the size range of living primates?

Primate evolution

- When did primates first appear in the fossil record?
- What are the epochs of the Cenozoic and what kinds of primates are found in each epic?
 - What do we find in the Paleocene and where?
 - What do we find in the Eocene and where?

Strepsirrhines

- What are the characteristics that define the strepsirrhines?
 - Which are primitive to primates and which are derived?
- What are the different kinds of strepsirrhines?
 How do they differ?

Eocene primates

- What kinds of primates are found in the Eocene?
- What did they look like? What kind of environment did they live in?
- What "grade" of primates are found in the Eocene?
- Are these primates of the Strepsirrhine or Haplorhine lineage?

Lemurs

- Where do they live?
- How do they live?
- What are their identifying characteristics?



Lorises

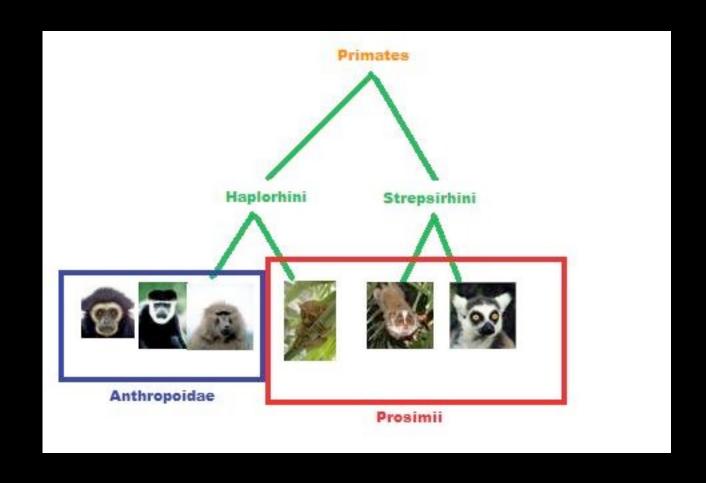
- Where do they live?
- How do they live?
- What are their identifying characteristics?

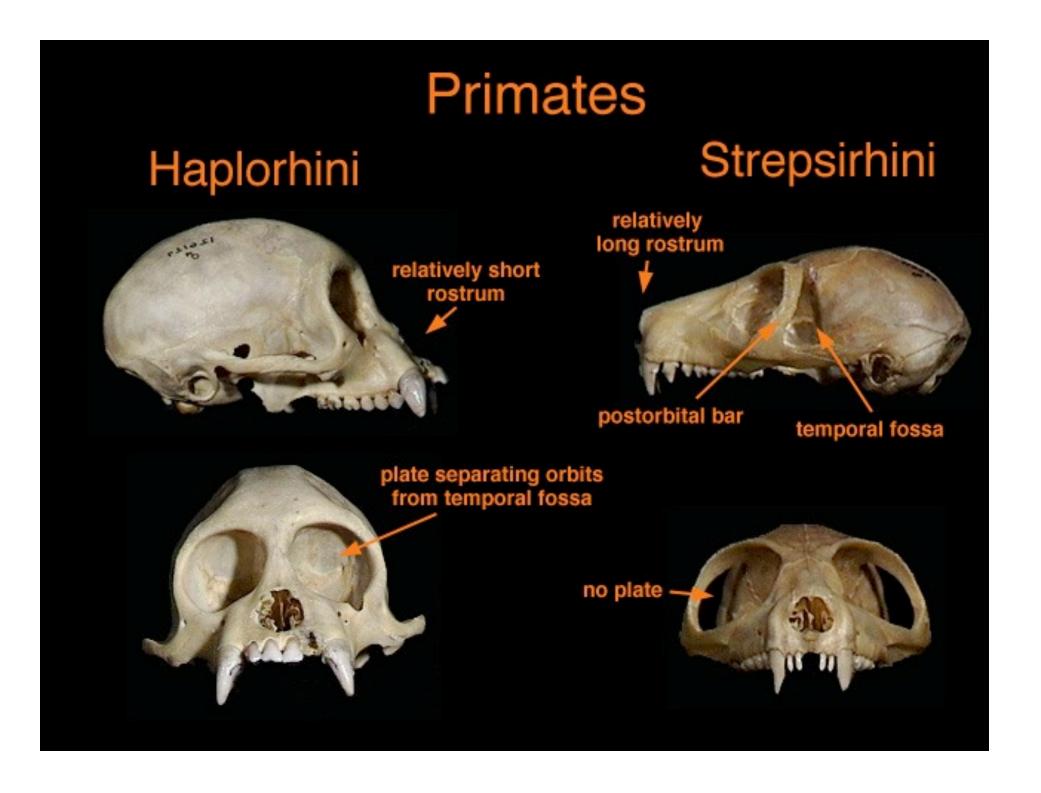


Primate Suborders

- Haplorhini vs. Strepsirhini
- Anthropoid vs. Prosimian
- What are the differences between these two ways of dividing the primates?

Traditional vs. Modern Taxonomy



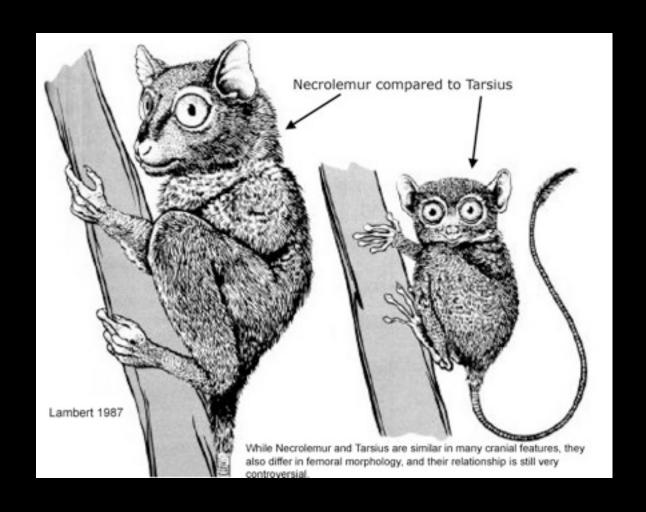


Haplorhines



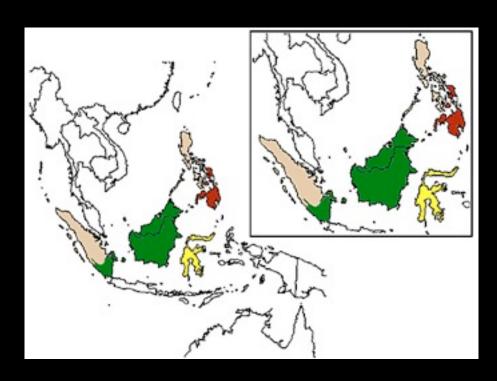






Tarsier

Suborder: Haplorhini Infraorder: Tarsiiformes Superfamily: Tarsiioidea







Tarsier

- -nocturnal
- -no rhinarium
- grooming claw
 - carnivorous
- monogamous pairs
 - no tooth comb

Tarsier Skull





Haplorhines







Anthropoids or Simiiformes (Infraorder of the Haplorhini)

- Monkeys, apes, and humans
- larger body size
- larger brain
- complete stereoscopic vision
- postorbital closure
- no rhinarium reduced snout
- more complex social systems
- more parental care and longer development



Homo sp.

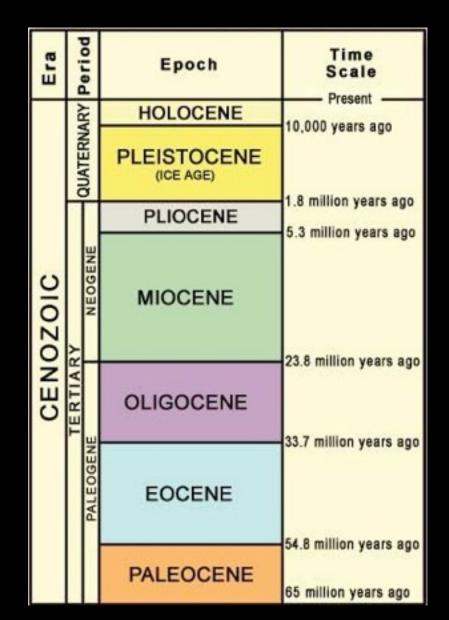
Hominids

Apes

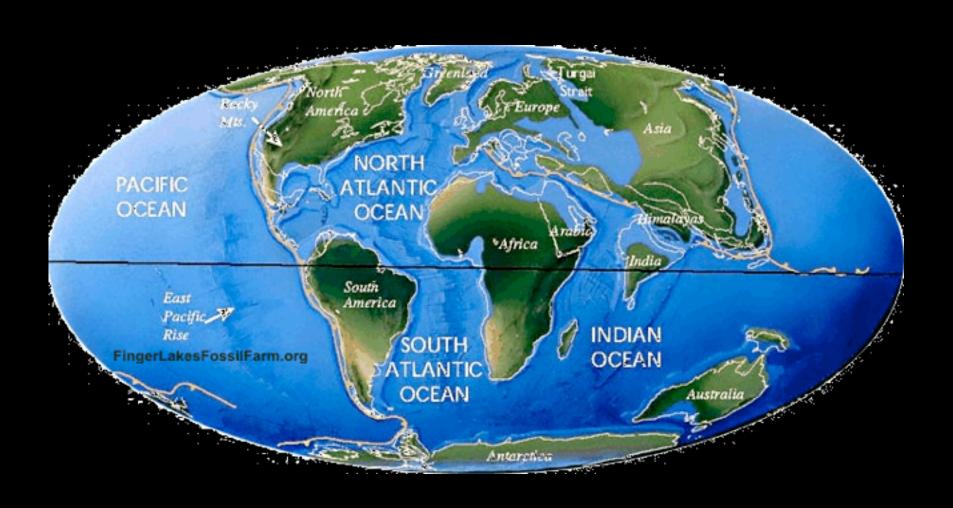
Monkeys

Prosimians

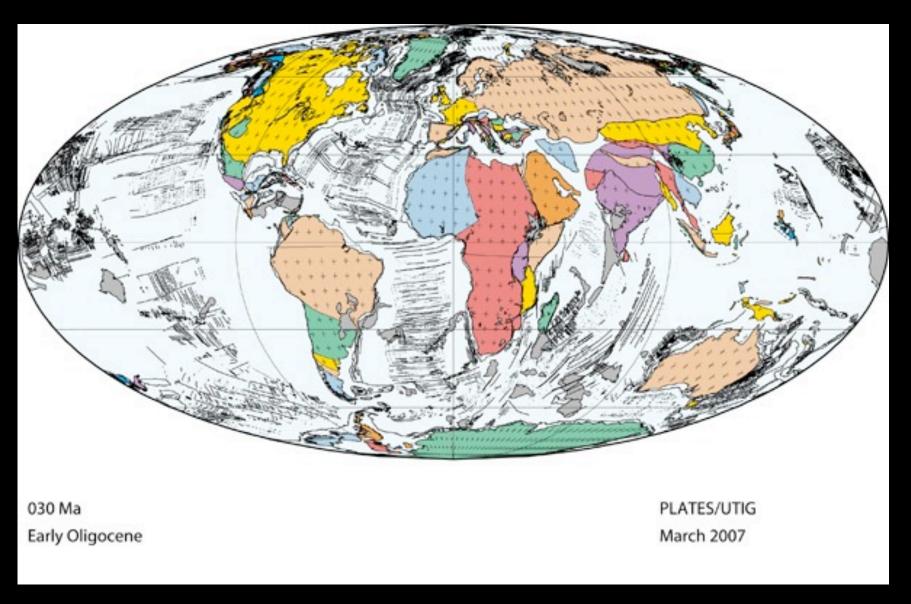
Protoprimates



Eocene continents



Oligocene Continental Arrangement

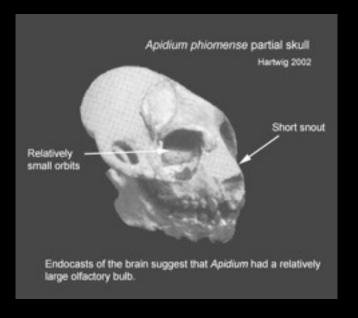


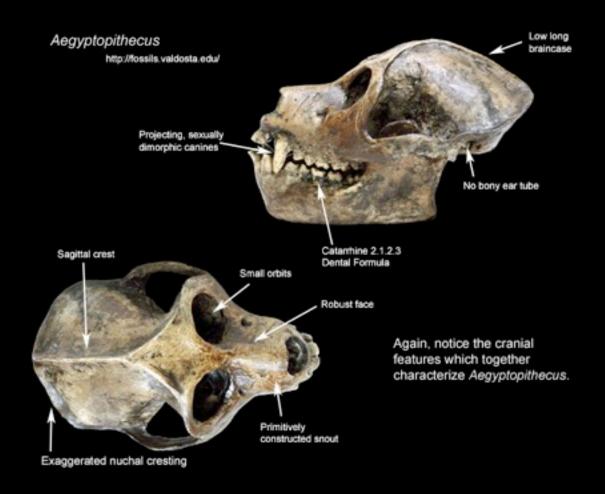
Eosimias



Canine size sexual dimorphism suggests that Apidium lived in polygynous social groups.



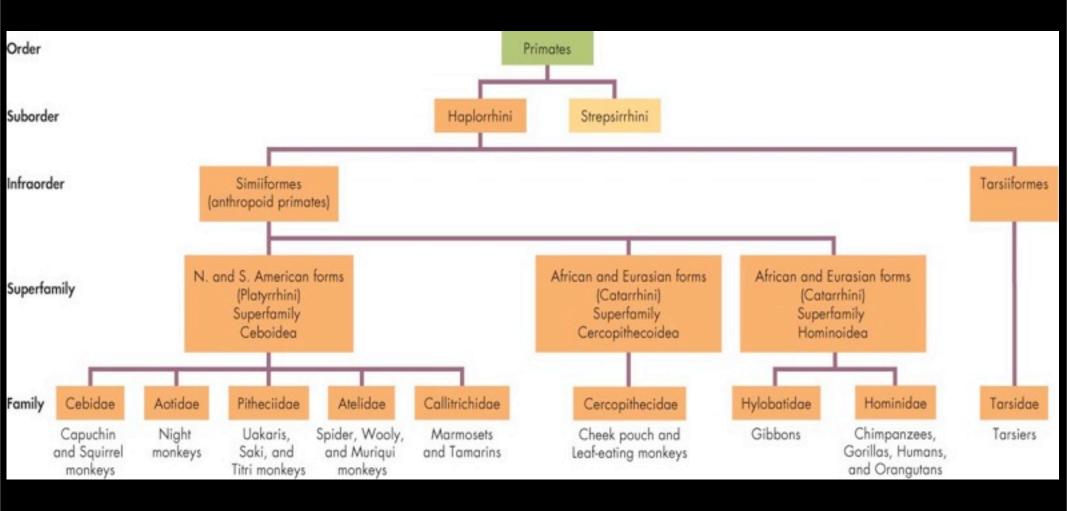




Aegyptopithecus reconstruction



More Taxonomy



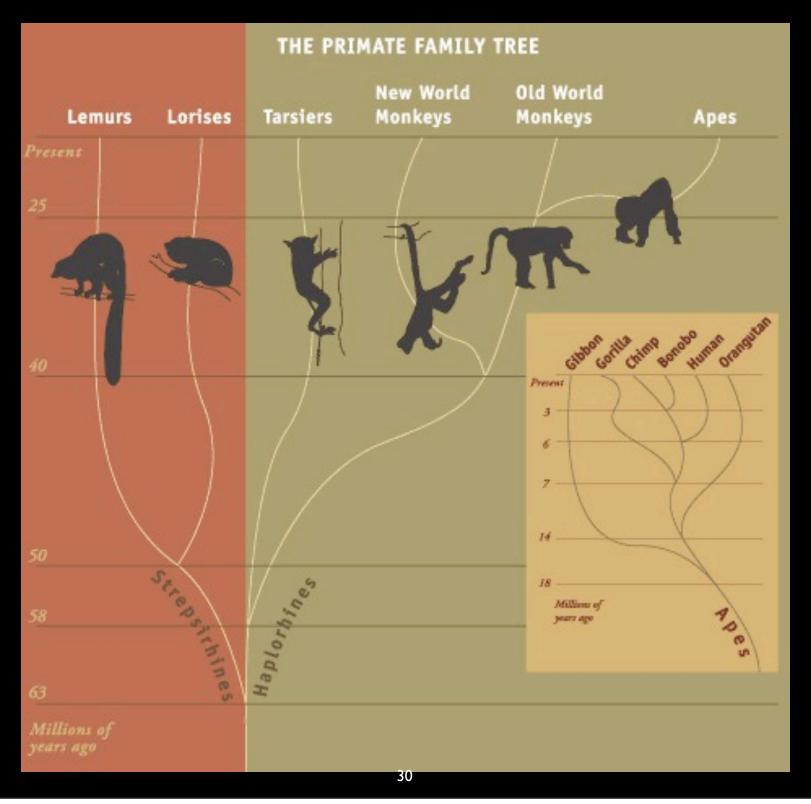
New World Monkey Origins?

- molecular evidence suggests 2 lines split by 40 mya
- Earliest primates in S.America at 35-30 mya
- Source?
 - Eocene of North America?
 - Rafting? from Africa
 - supported by anatomical links to Apidium

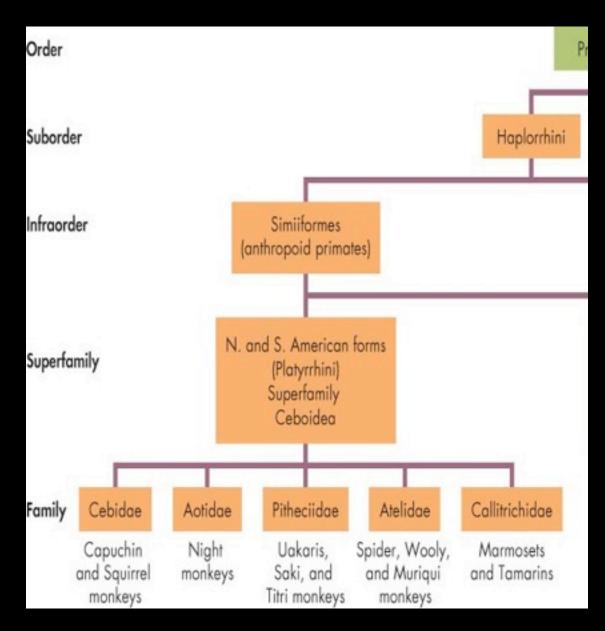
Platyrrhini and Catarrhini (Parvorder?)

- Platyrrhini
 - New World
 - Flat noses
 - some prehensile tails
 - 2132/2133

- Catarrhini
 - Old World monkeys and apes
 - down noses
 - 2|23



Superfamily: Ceboidea



Ceboidea Distribution



Capuchin



Squirrel monkey



Squirrel monkeys



Owl monkey





Owl monkey skull



Pitheciidea -Uakari



Titi Monkey



Titi Monkeys



Atelidae - Howler monkeys



Black howler



Spider monkey





Wooly Monkey



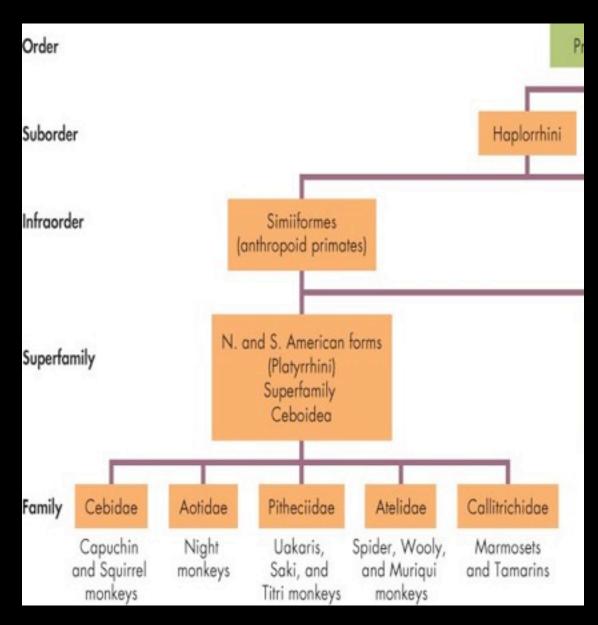
Muriqui



Muriqui



Superfamily: Ceboidea



Emperor tamarin







Cotton-top tamarin



Golden Lion Tamarin



Twinning



Pygmy marmoset

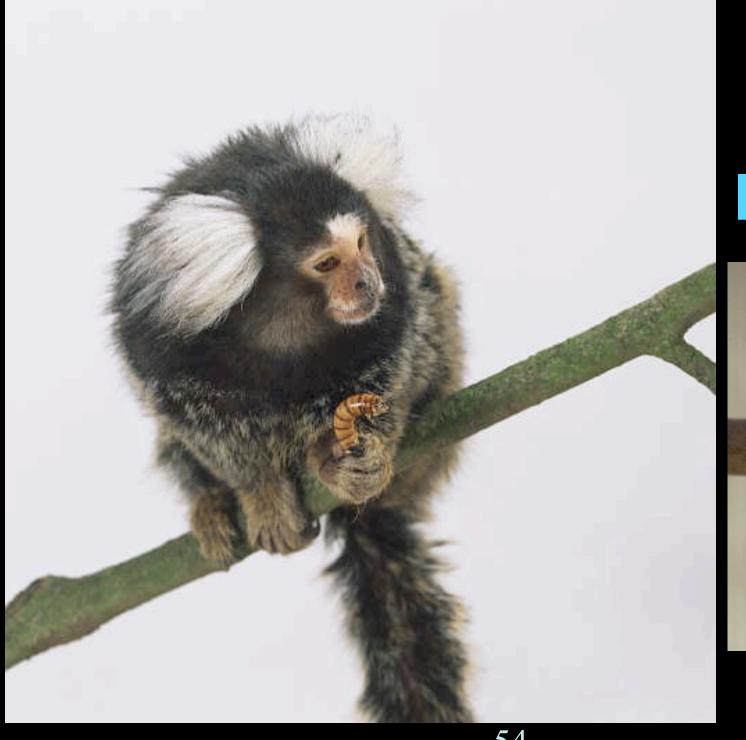






Silvery Marmoset





Common Marmoset



54

Living Primates

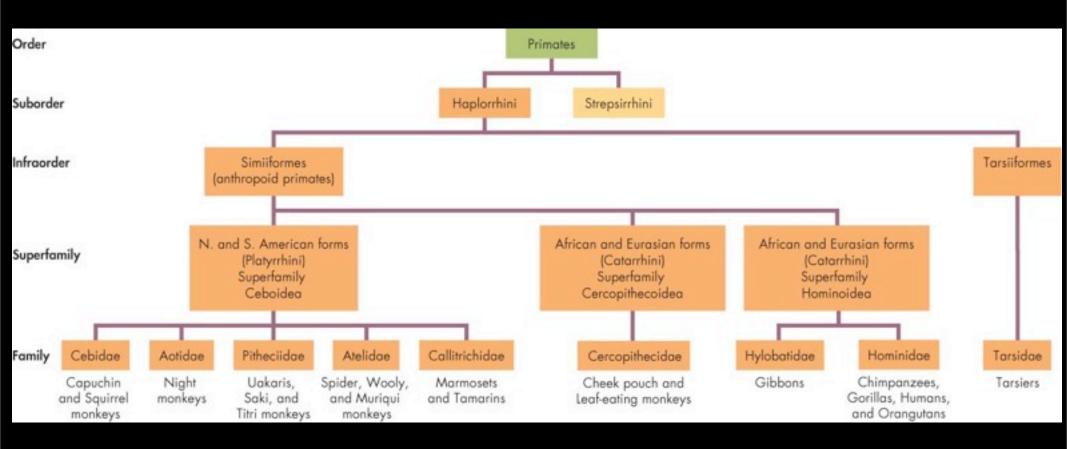
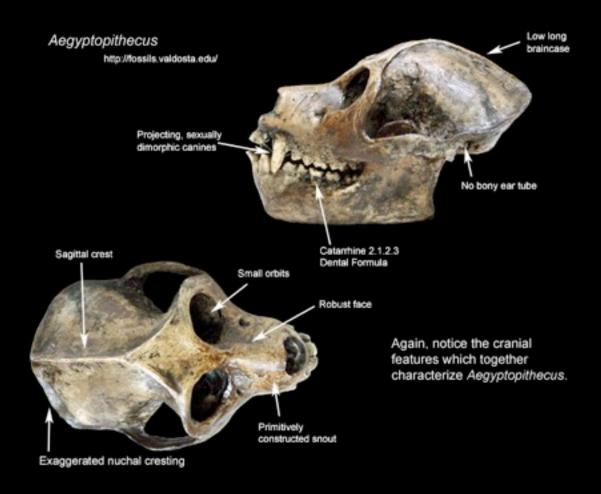


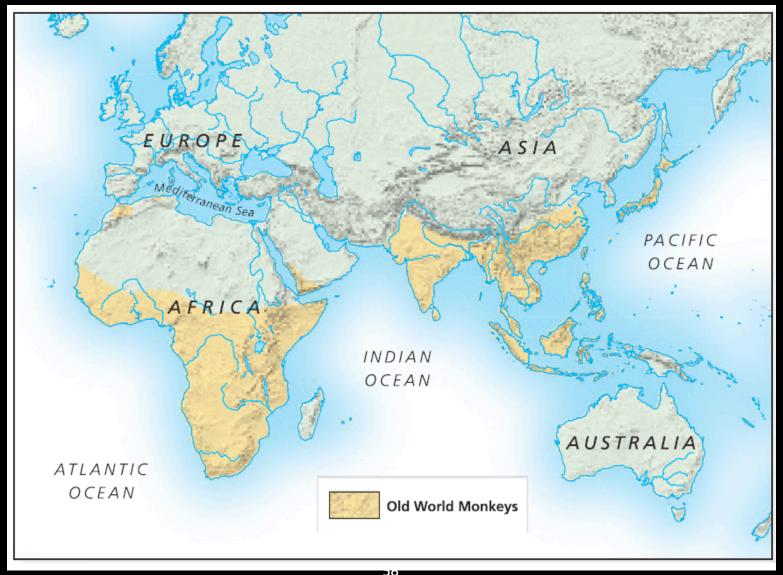
Figure 5.5 Taxonomy of the Haplorrhines to the Family Level



Old World Monkeys

- Superfamily: Cercopithecoidea
- Family: Cercopithecidae
- 2 Subfamilies: Cercopithecinae and Colobinae

Cercopithecoidea Distribution



Vervet



Vervet monkey



Barbary macaque



Lion-tailed Macaque



Baboon



Mandrill





Japanese Macaque





Japanese Macaque



Colobinae: Hanuman langur

leaf eating monkeys specialized stomach bilophodont molars



Douc Langur





Red Colobus Monkey



Black and white colobus



Proboscis monkey

