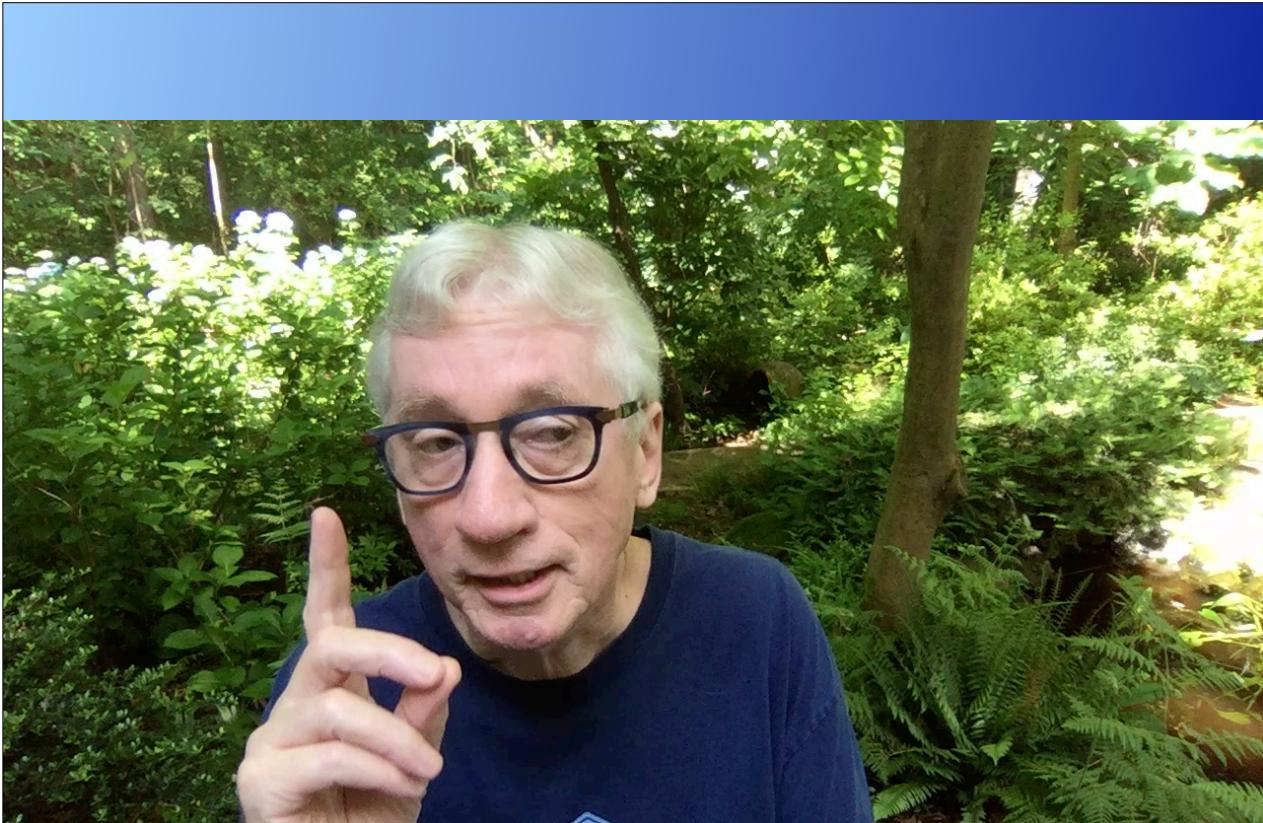
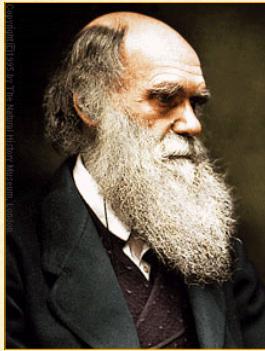


Face perception & visual communication



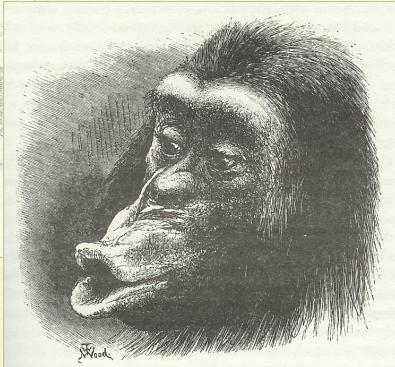
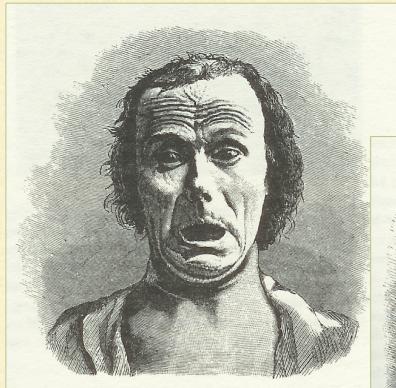
Masterclass: 1a





Charles Darwin
1872

The Expression of the Emotions in Man and Animals



OBJECTIONS

to the study of animal emotions

- ★ Anthropomorphism is a sin
- ★ We will never know what animals feel

EMOTION ≠ FEELING

Emotions serve to produce adaptive action

Darwin



William James and Carl Lange



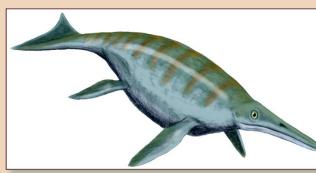
Modern



ANTHROPOMORPHISM

The (mis)attribution of human-like mental experiences to other species

Evolutionary Time



Analogy:

Similar traits through
independent (convergent) evolution

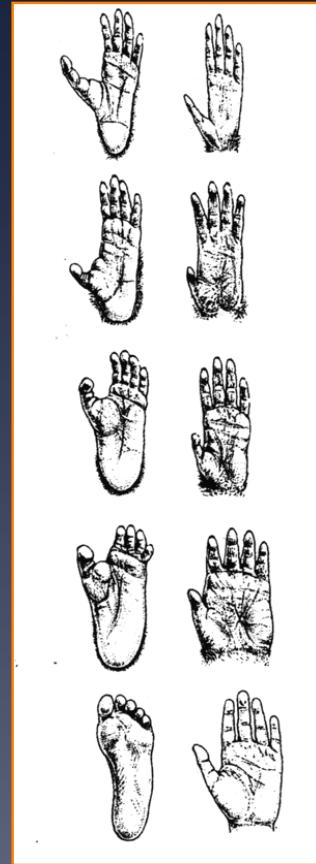
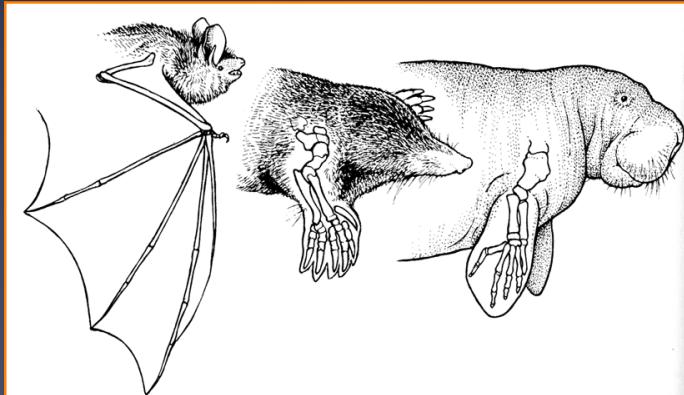
Evolutionary Time



Homology:
Similar traits with
shared ancestry

Homology

concerns **morphology**
more than function



When a Kiss is not a Kiss



Kissing Gouramis



Kissing Apes

Analogy

Homology

Homologies deserve respect in our language

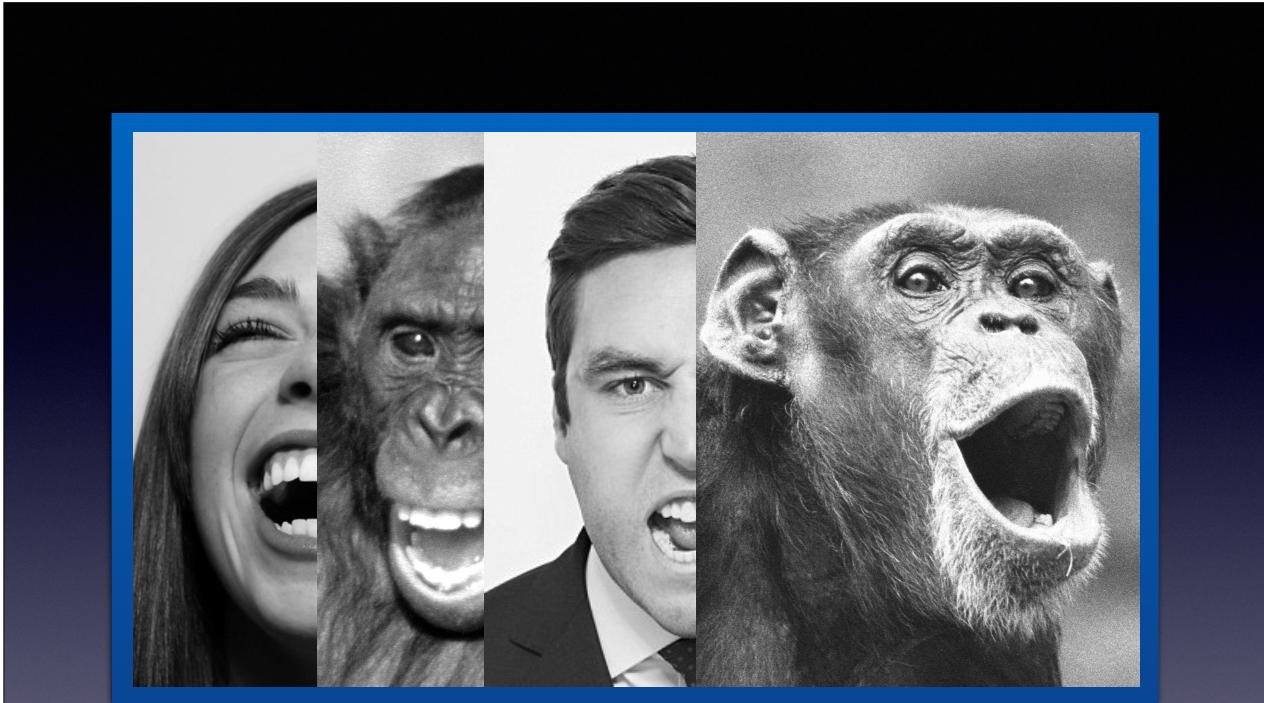


So, why not call laughing laughing?



ANTHROPODENIAL

A priori denial that other animals can have human-like mental experiences or that humans are like animals

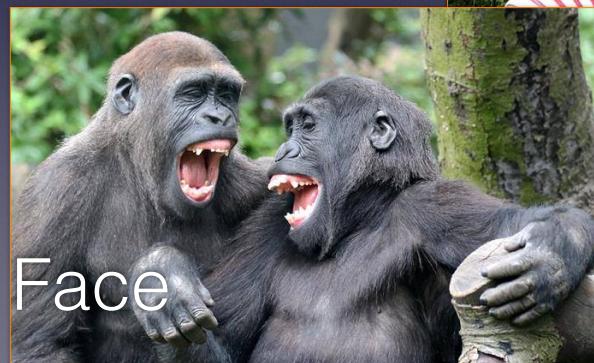
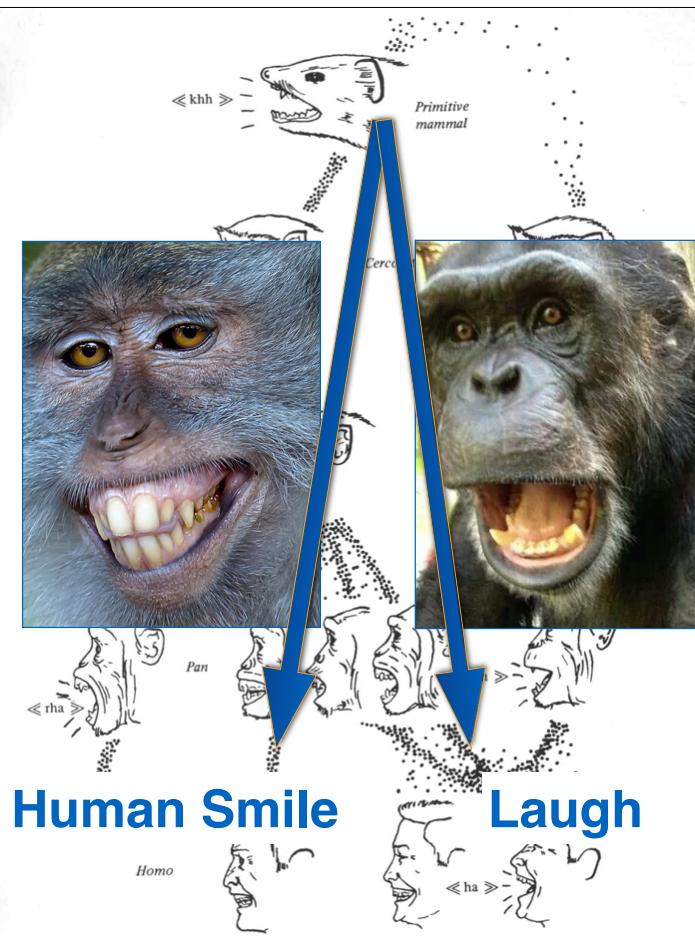


Window to the Soul

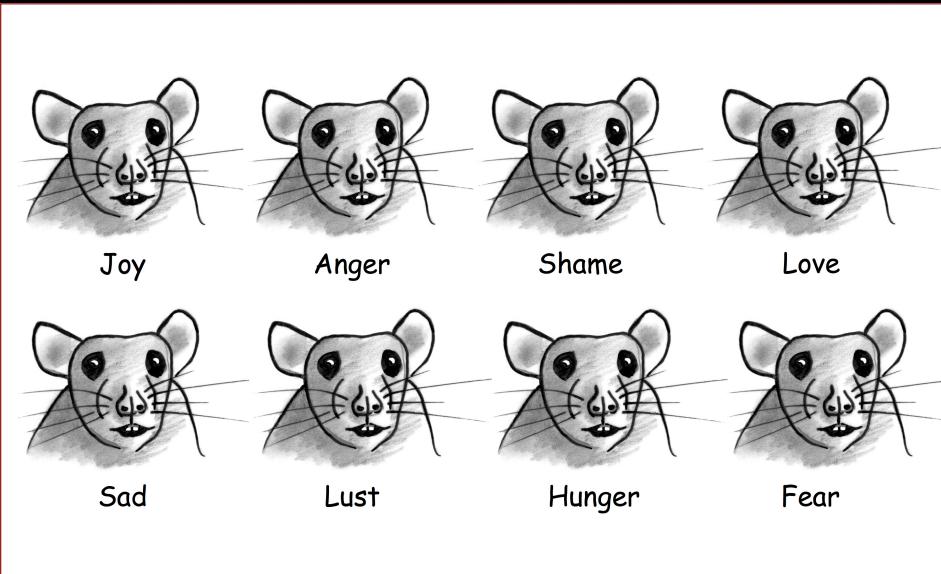


Jan van Hooff, 1971

Origin of laughter and smile



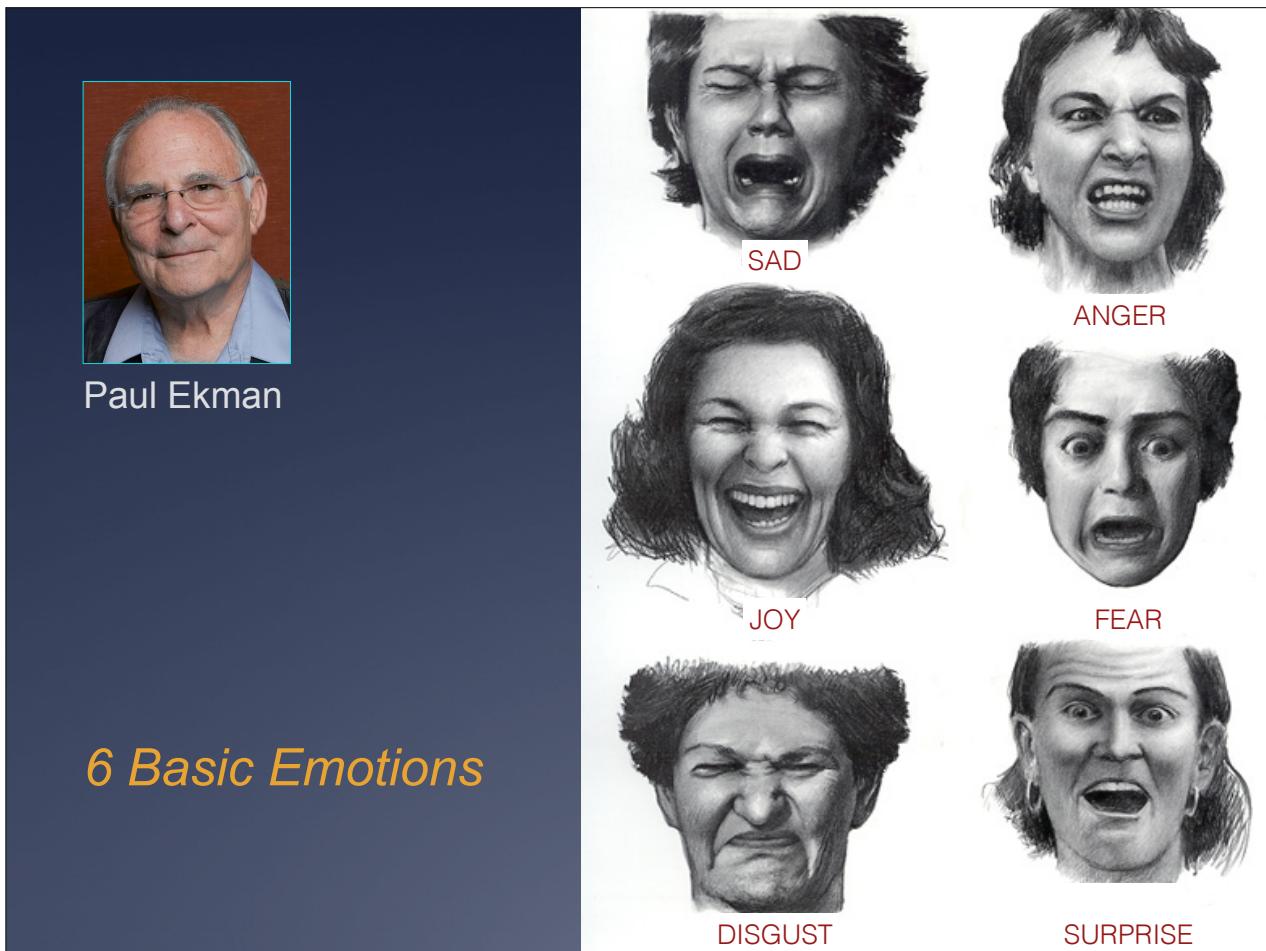
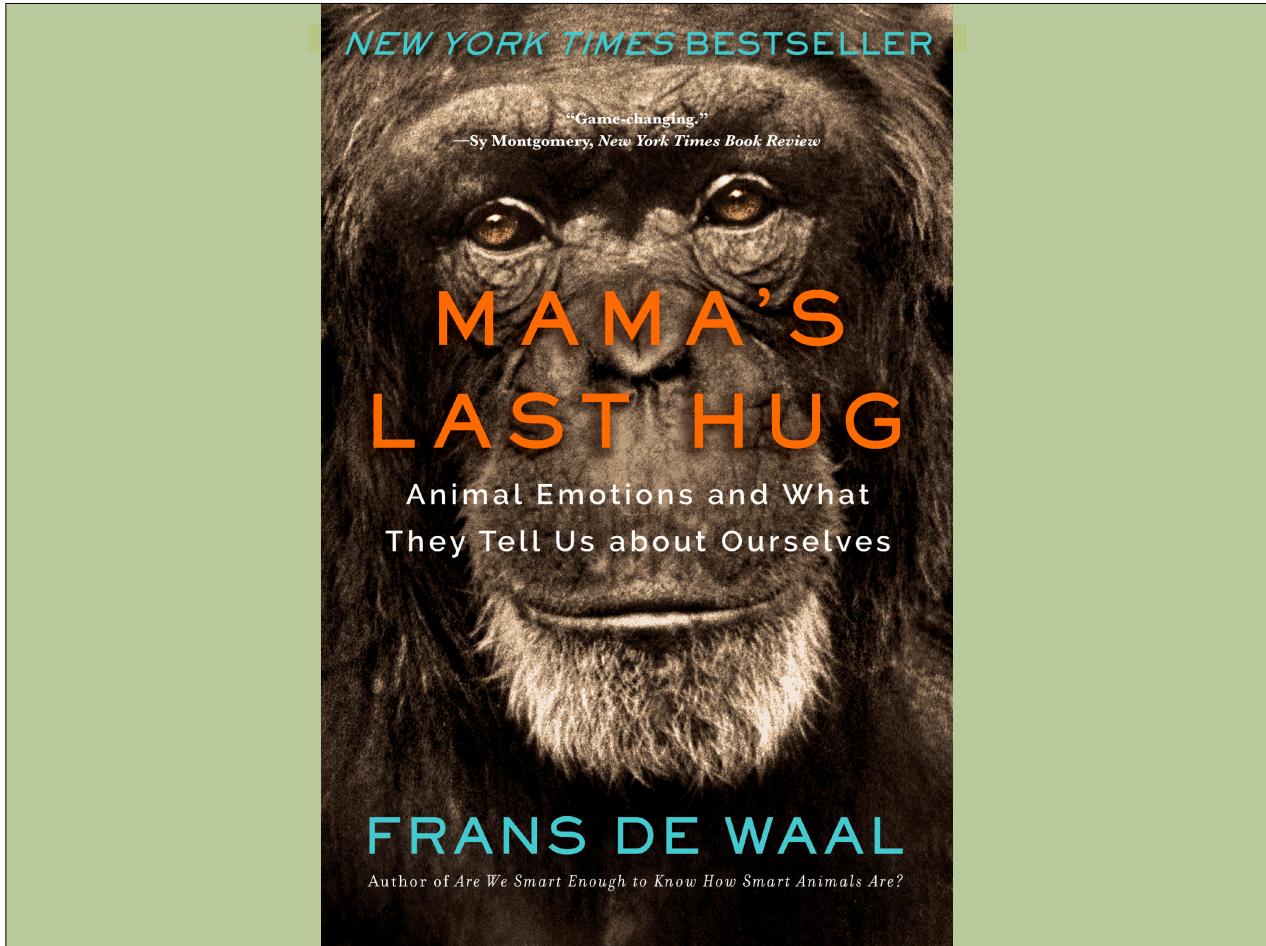
Play Face



Rodent Expressions

Mama's Last Hug





(3) Disgust

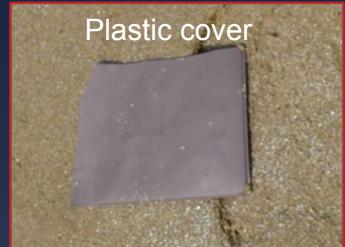
- * Michael Gazzaniga (neuroscientist), 2008: Disgust is one of the 5 emotional modules that distinguish us from all other species.
- * Paul Rozin (psychologist), 2015: “Disgust seems to be uniquely human, and is entirely or primarily a product of culture.”



Nosewrinkle of
disgust

chimpanzee rainface





Cécile Sarabian & Andrew MacIntosh (2015). *Biology Letters*