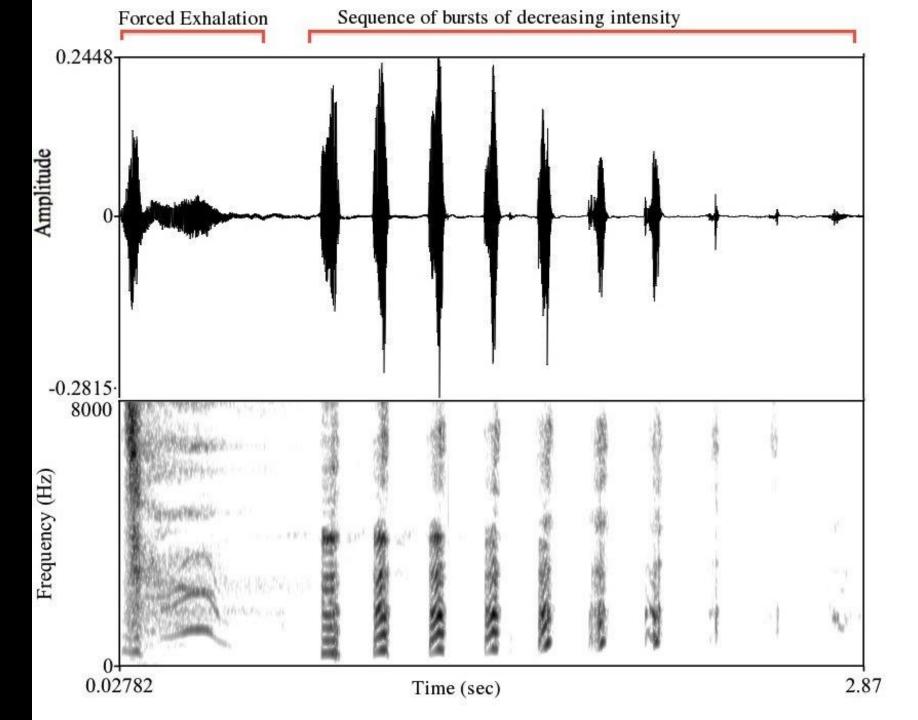
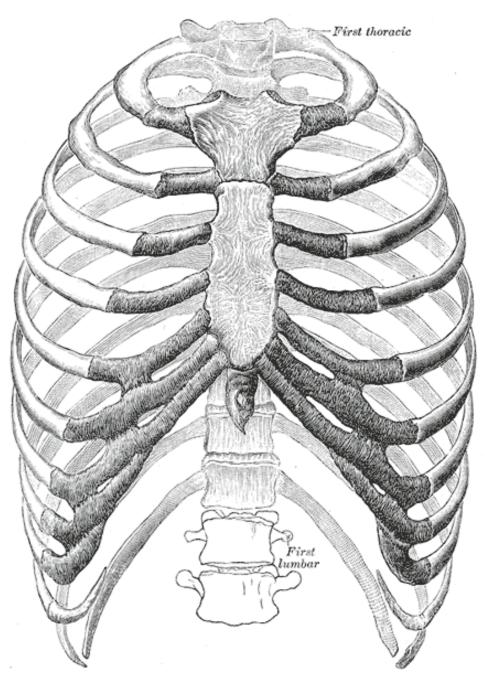
The science of laughter

Sophie Scott
Institute of Cognitive Neuroscience
University College London

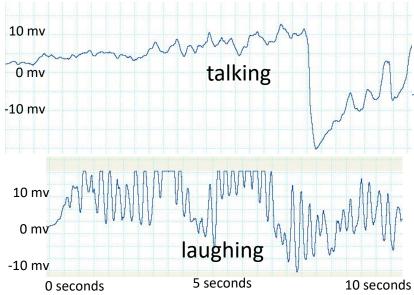
What is laughter?

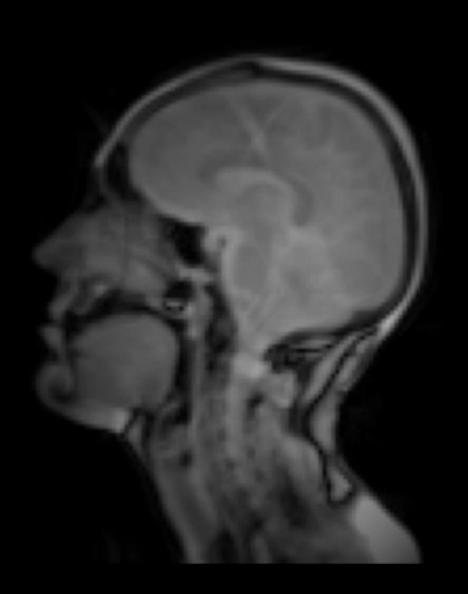
- More like a different way of breathing than a different way of speaking
- More like an animal call than it is like speech



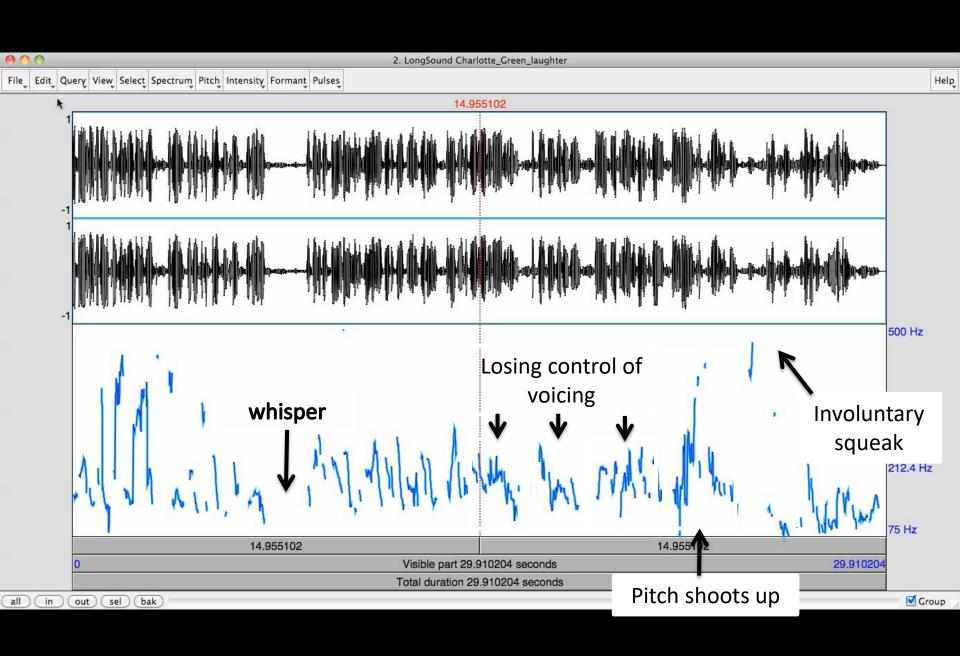












































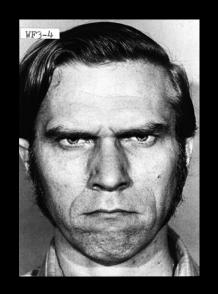
basic expressions of emotion?

- Basic emotions are:
- Unambiguous distinctly different from each other
- Universally recognised across all human cultures
- Evolutionarily ancient
- Based upon a specific neural system

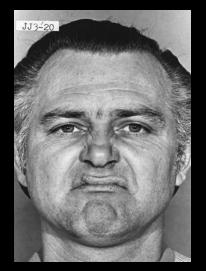
Ekman 60







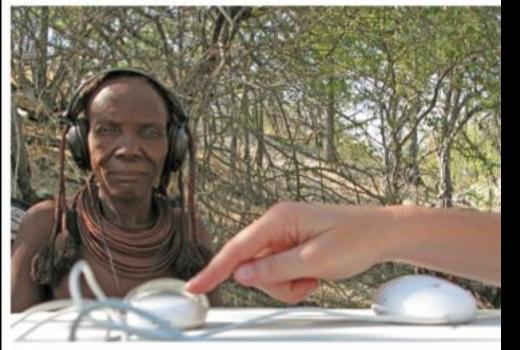






Anger Surprise Disgust Happiness Fear Sadness

Is laughter a basic expression of emotion?













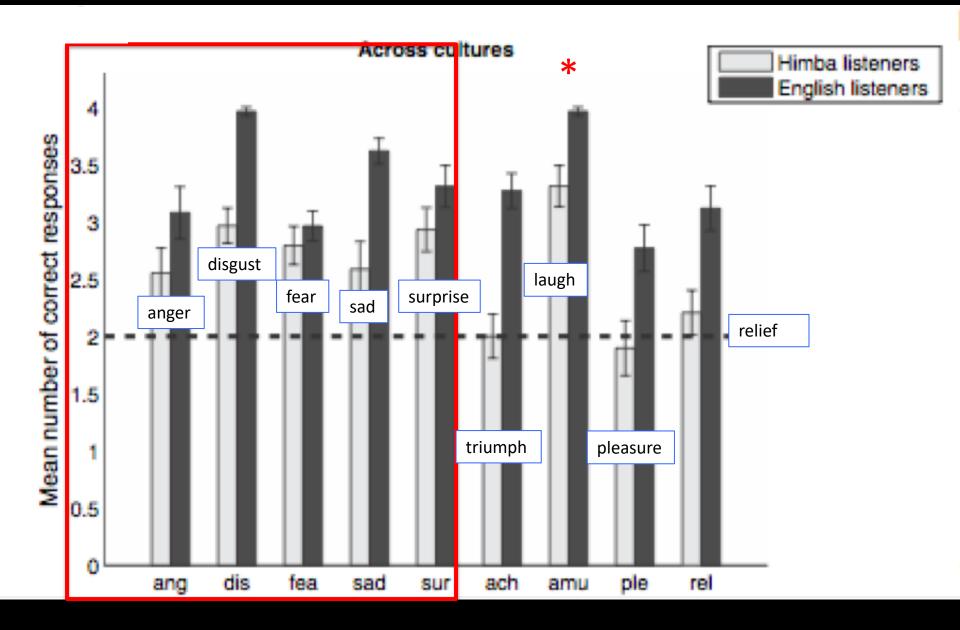




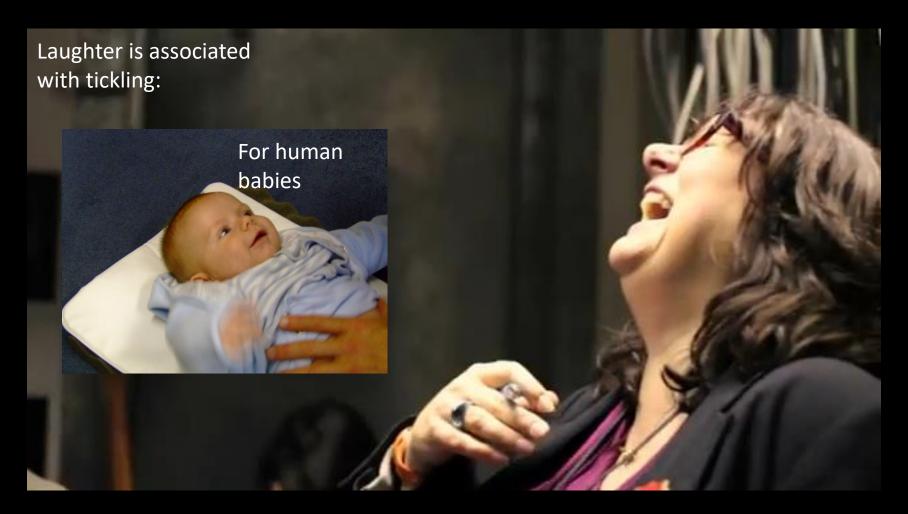
Sauter et al, 2010



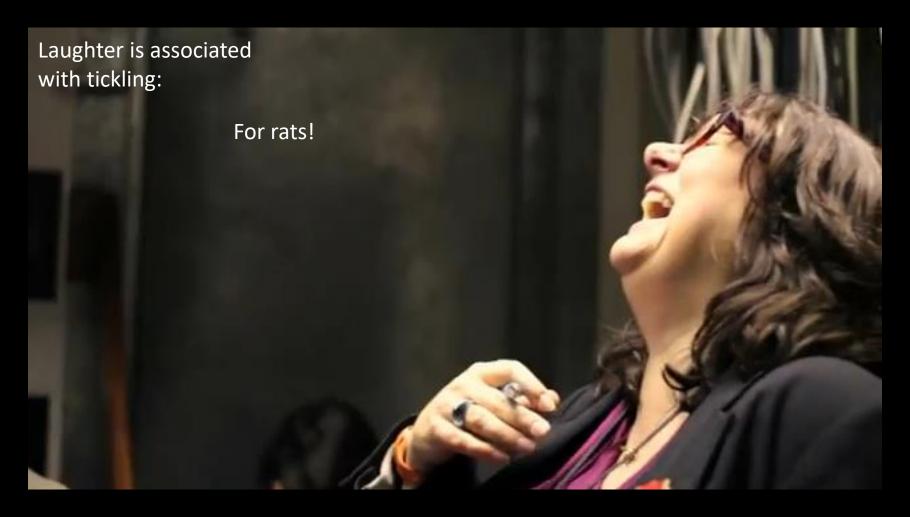


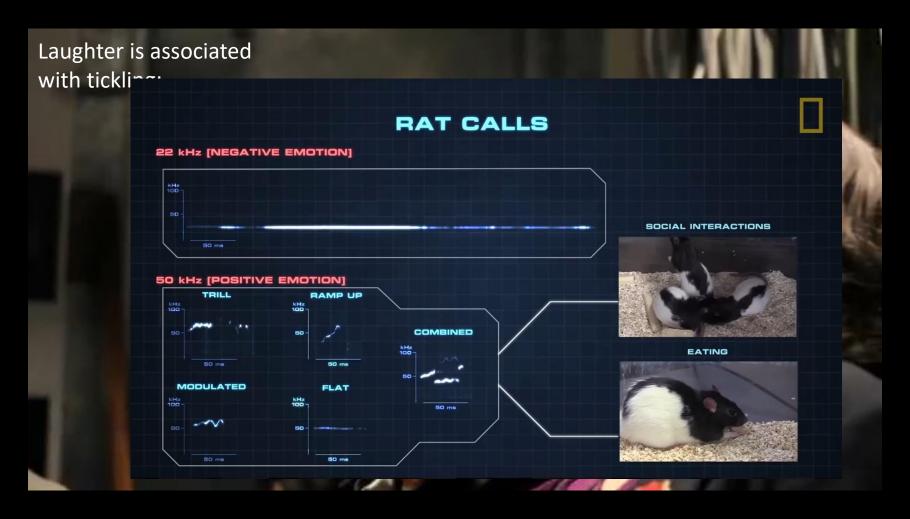












Uses of laughter



Laughter and play

All mammals play when they are juveniles

And some mammals play all their lives!

Laughter and play







Laughter and play





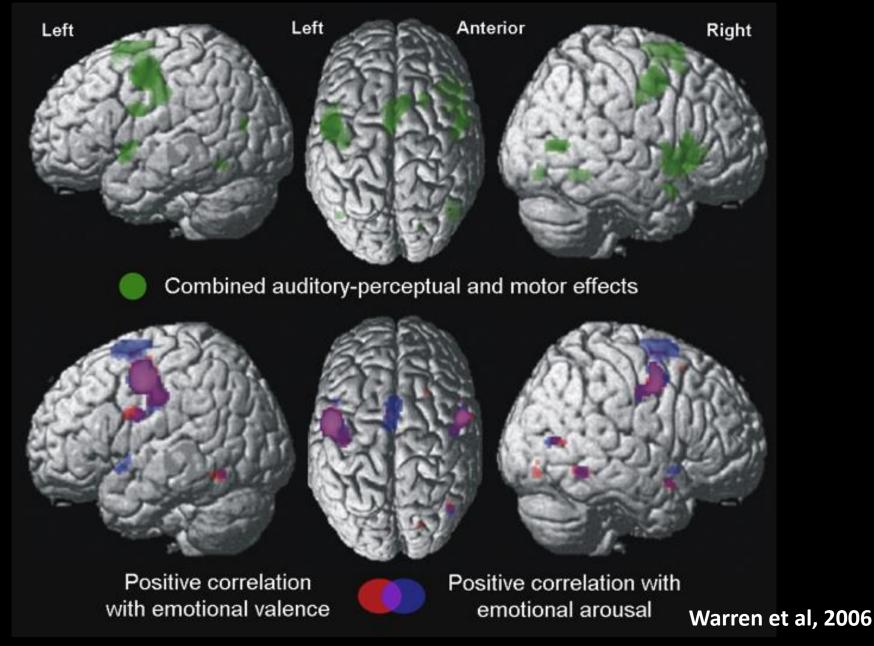


Laughter is 'an invitation to play'

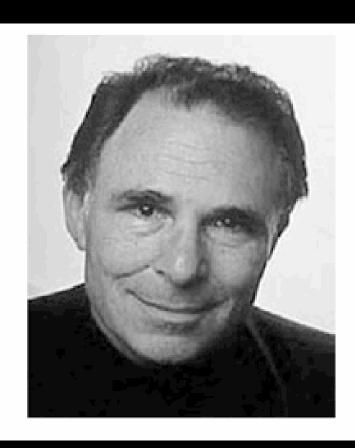
Adult humans and laughter

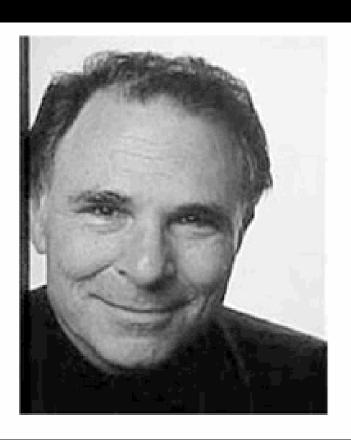
- Ask people what makes them laugh, they'll talk about jokes and humour
- We laugh most in conversation
- We laugh more than we think we do!
- Laugh more if know other people
- Behavioural contagion





Which smile looks nicer?





Which smile looks nicer?









Which smile looks nicer?

