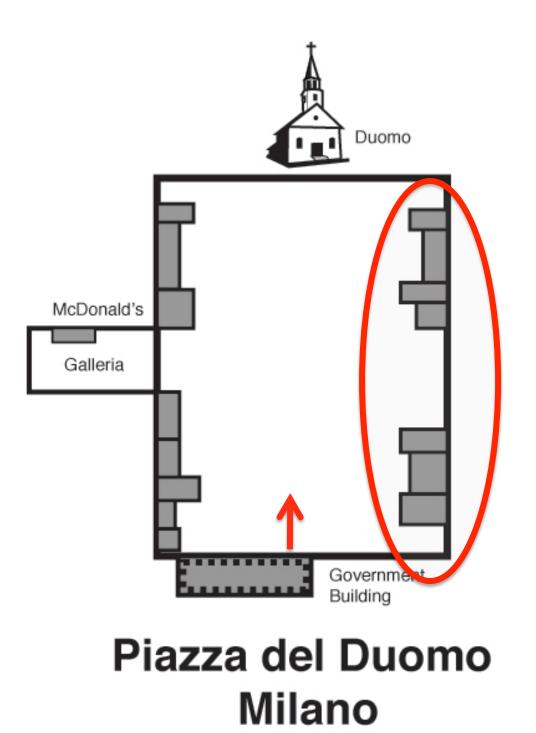


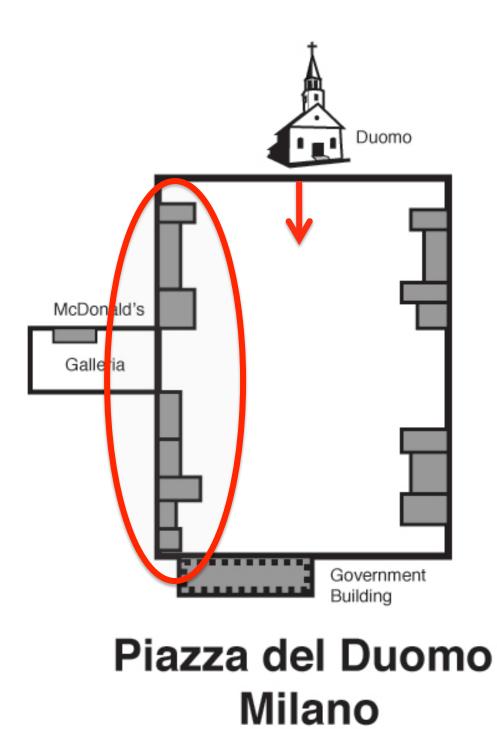
Self PortraitAcute2 weeks6 monthsImage: Image: Imag

Piazza del Duomo in Milan



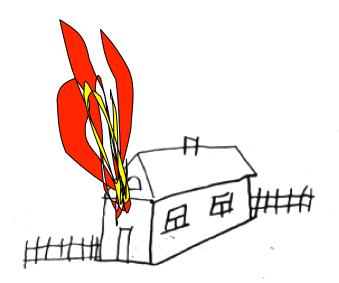






Any Difference in the Two Houses ?





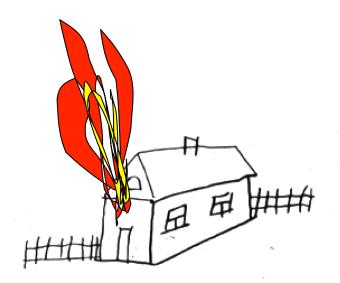
NO

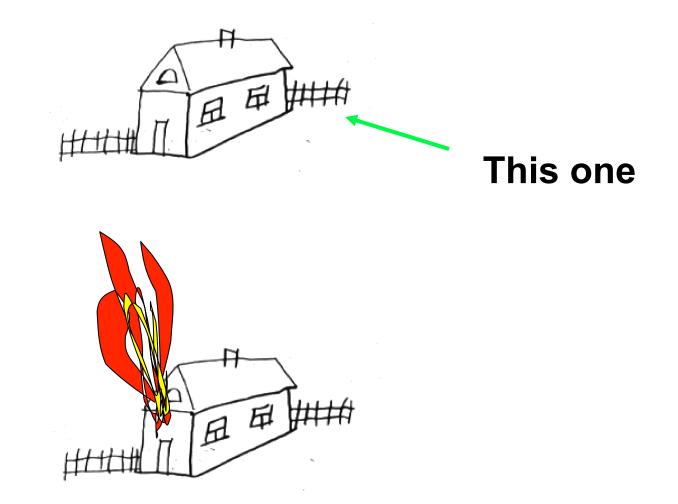




Which house would you like to live in?

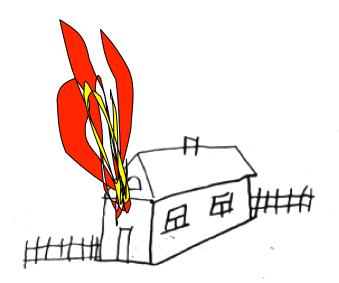




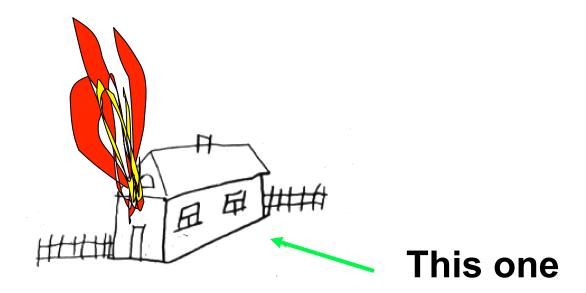


Which House is Dangerous?









HUMAN FRONTAL LOBE

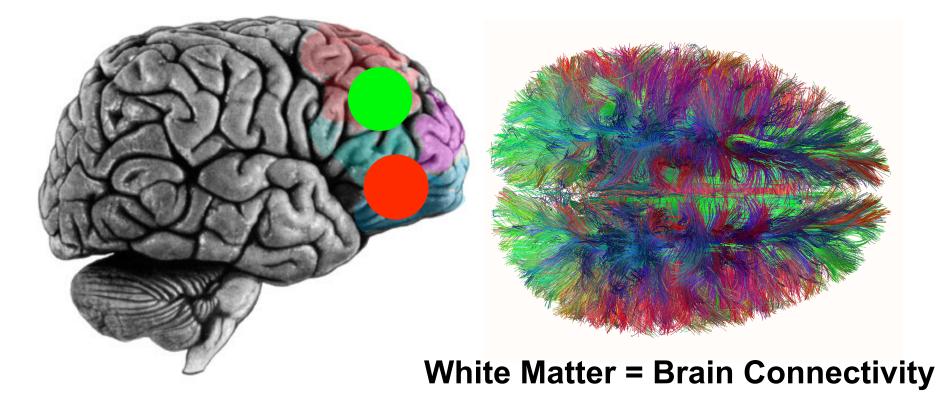




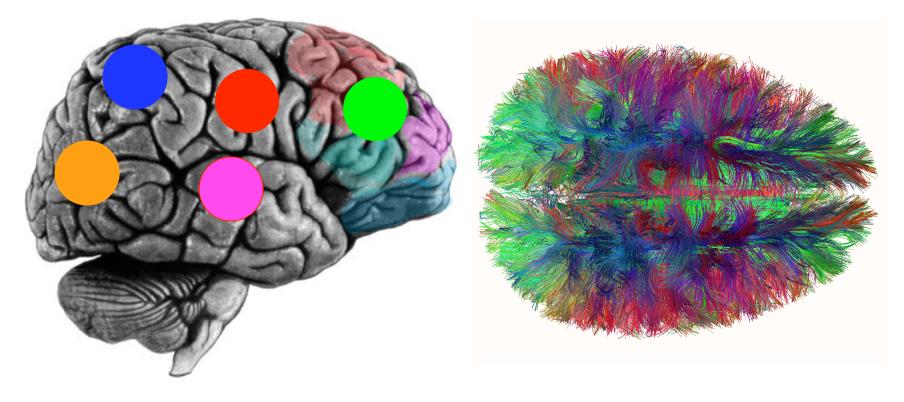
COGNITION

SOCIAL-EMOTIONAL

Frontal Cortex = Executive Control of Cognition and Emotion

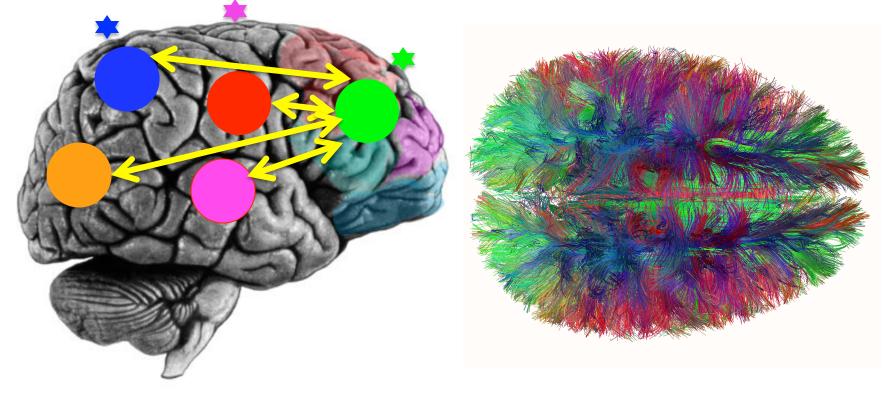


THE BRAIN OPERATES AS A NETWORK



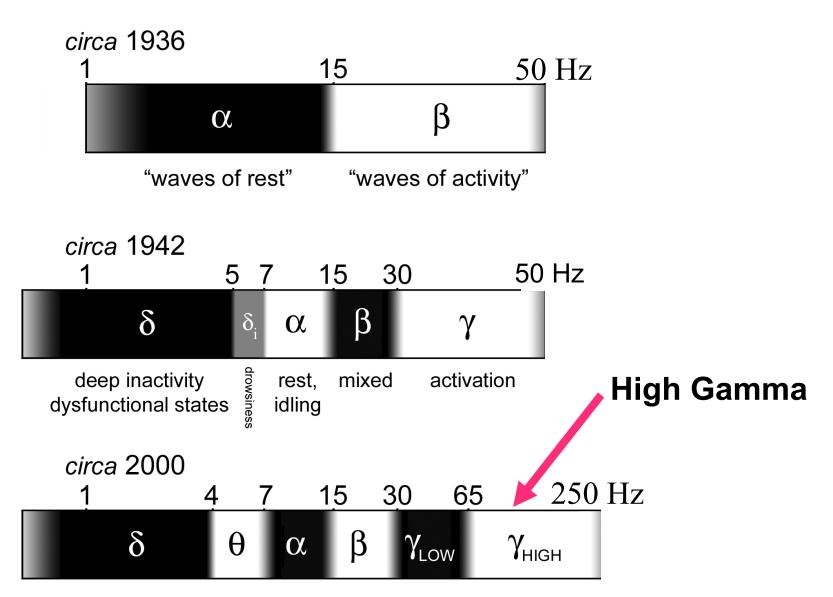
Frontal Cortex: decision making, working memory, context, novelty Parietal Cortex: attention, spatial relations, implicit priming Sensori-Motor Cortex: touch, motor, mirror neurons Occipital Cortex: Vision Auditory Cortex: Audition

THE BRAIN OPERATES AS A NETWORK

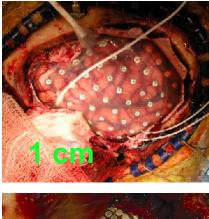


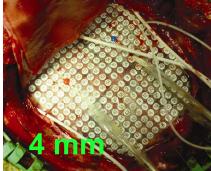
Frontal Cortex: decision making, working memory, context, novelty Parietal Cortex: attention, spatial relations, implicit priming Sensori-Motor Cortex: touch, motor, mirror neurons Occipital Cortex: Vision Auditory Cortex: Audition

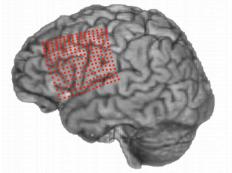
HUMAN EEG 2013



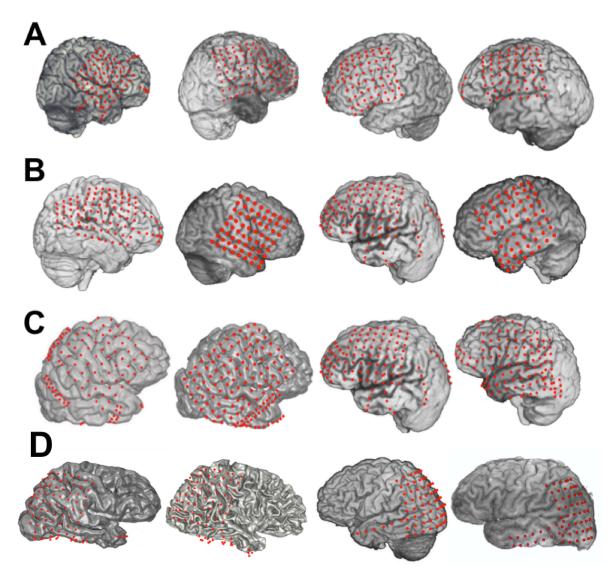
ELECTROCORTICOGRAPHY



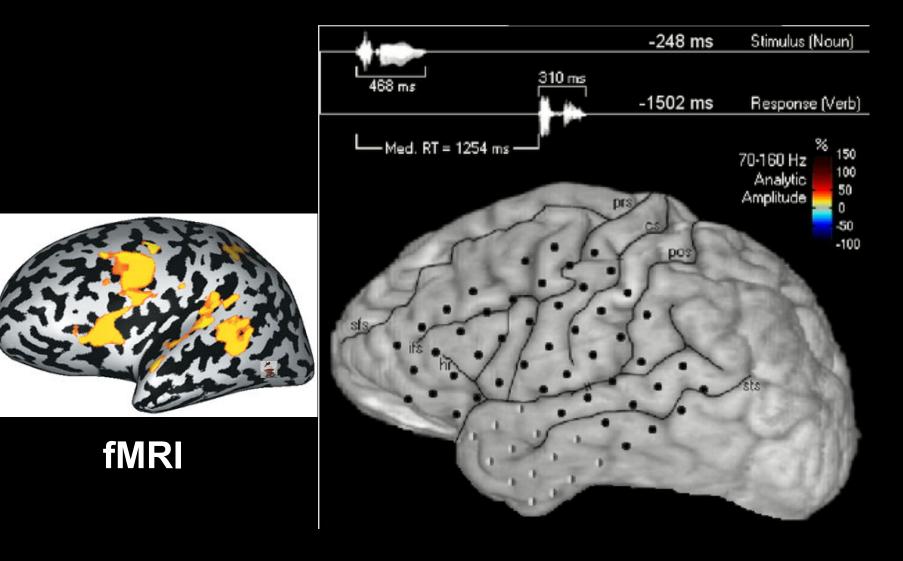




256 channels

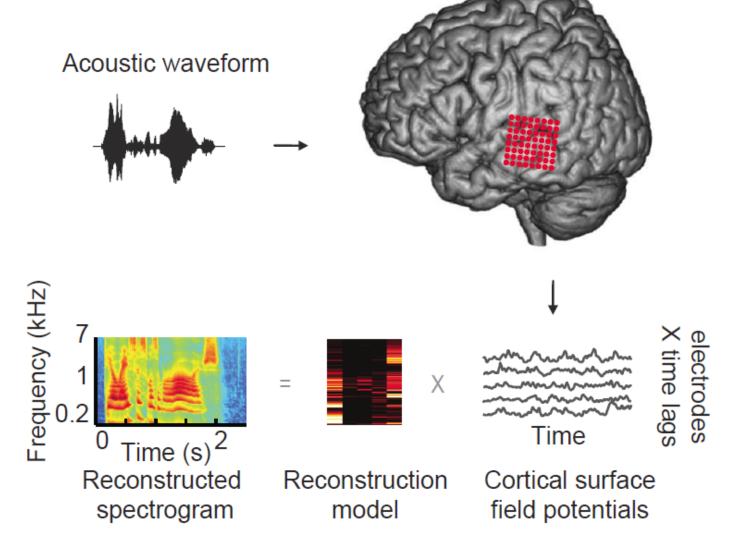


VERB GENERATION



Edwards et al. NeuroImage, 2010

SPEECH RECONSTRUCTION



Pasley et al. Plos Biology, 2012

High Gamma (60-200 Hz)

Speech Reconstruction from ECoG

