

Lecture One - The Beginning and the Brain

What is love?

emotion
cognition.
motivation

Why is love?

evolution
Freud.

How is love?

Language
Perception

What do you love?

Where is love?

Tell me where is fancy bred,
Or in the heart, or in the head?
How begot, how nourished?
Reply, reply.
It is engender'd in the eyes...Merchant of Venice 3:2

and so on....

A bit about the course: (READ THE SYLLABUS)

The brain

materialism & dualism

How can we learn about the functioning of the brain?

Four methods

- 1)
- 2)
- 3)
- 4)

Problems & Pitfalls

A whirlwind tour of the brain

Lobes: frontal, temporal, occipital, parietal

Cortical localization:

visual cortex, somatosensory cortex, motor cortex
auditory cortex, wernicke's area, broca's, area

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A historical note about Phrenology

Underneath the cortex:

- Limbic system
- Basal ganglia
- Brain stem/core
- Cerebellum

The Neuron

- axon
- dendrite
- soma
- myelin
- synapse

neurotransmitters

brain and behavior

Obsessive-compulsive disorders (for example)

Serotonin

In humans, there are drugs that are serotonin re-uptake blockers

explain re-uptake

Prozac is a " serotonin re-uptake inhibitor" (what does that mean).