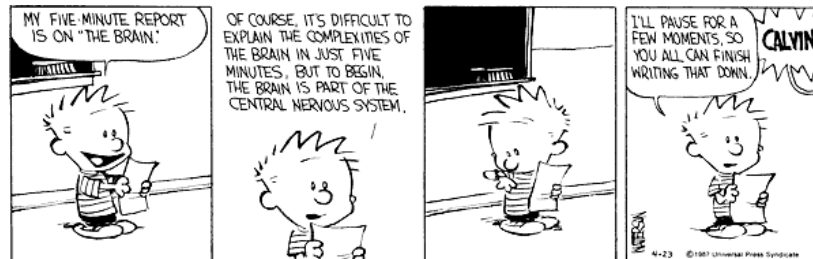


This is your brain!



Splash!
April 5, 2008

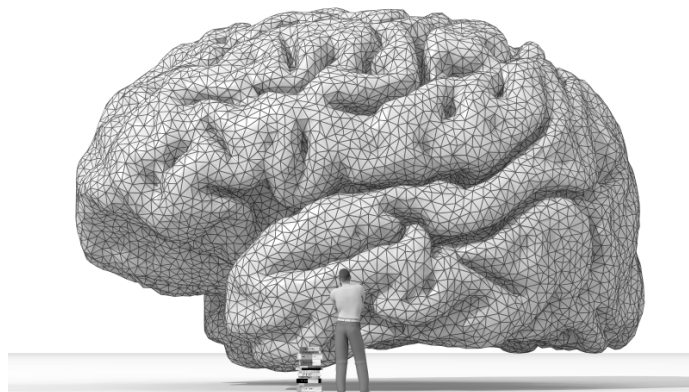
What are we doing today?

- Who are we?
- Introducing your brain
- Cool things we like about the brain
 - Memory
 - Attention
- Real brains!

Who Are We?

- Name
- Grade
- Favorite thing the brain does

Introducing Your Brain



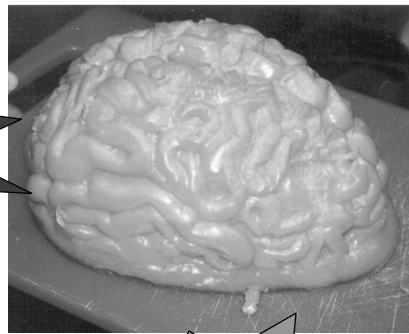
Copyright (C) 2005 Nicolas Rougier

What Does the Brain Do?



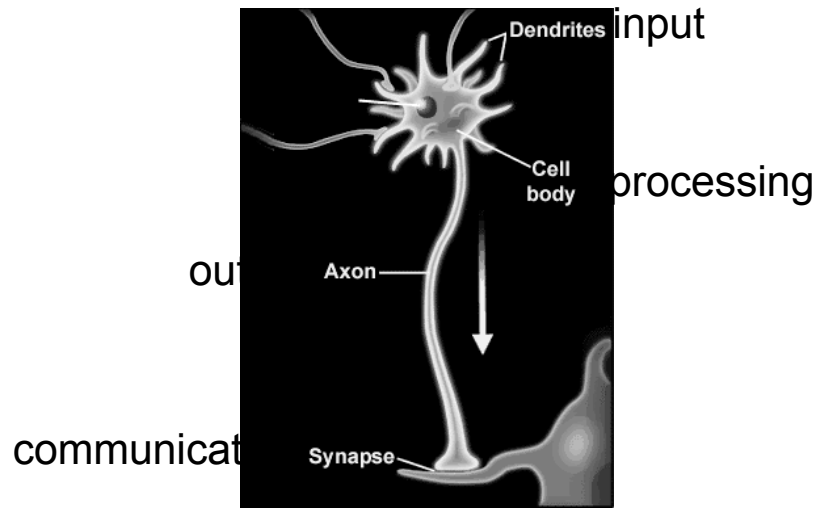
What's a Brain Made Of?

100 billion neurons!

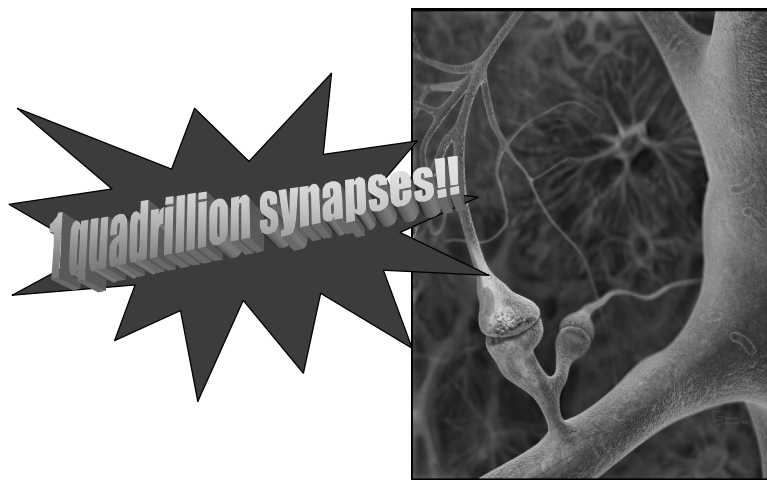


Even MORE glia

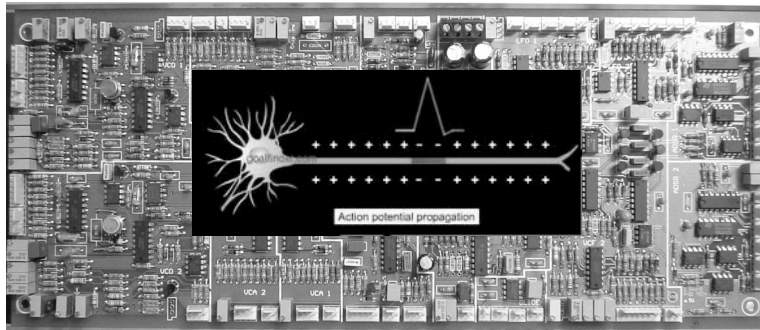
The Neuron



How Does the Brain Work?



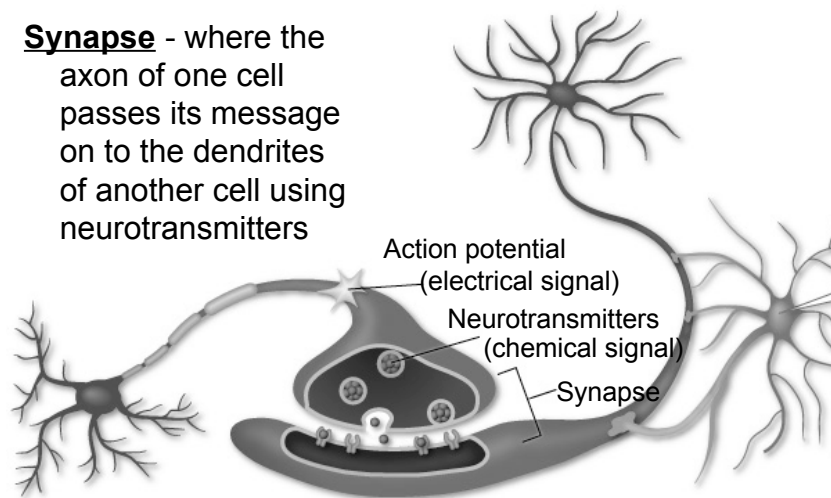
Electrical Signals: Digital



The Action Potential! - how a message gets passed *inside a cell* from the dendrites to the axon

Chemical Signals: Analog

Synapse - where the axon of one cell passes its message on to the dendrites of another cell using neurotransmitters



From Sensation to Action

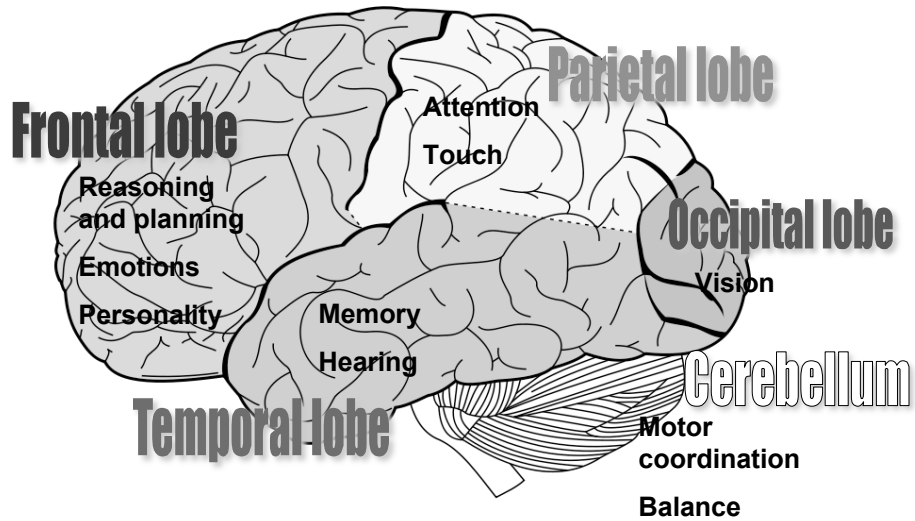


Your nervous system is like a relay race - passing on messages from one neuron to another, going from sensation to action

The whole brain communicates
to generate behaviors

video

Your Brain is Specialized



On to other cool brain things!