

# Understanding your brain using open-source technology

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# You after My Talk



# The body, electric

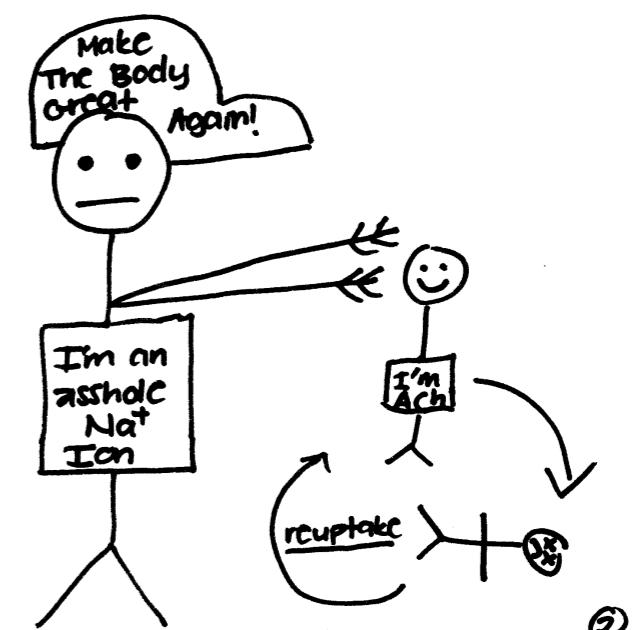
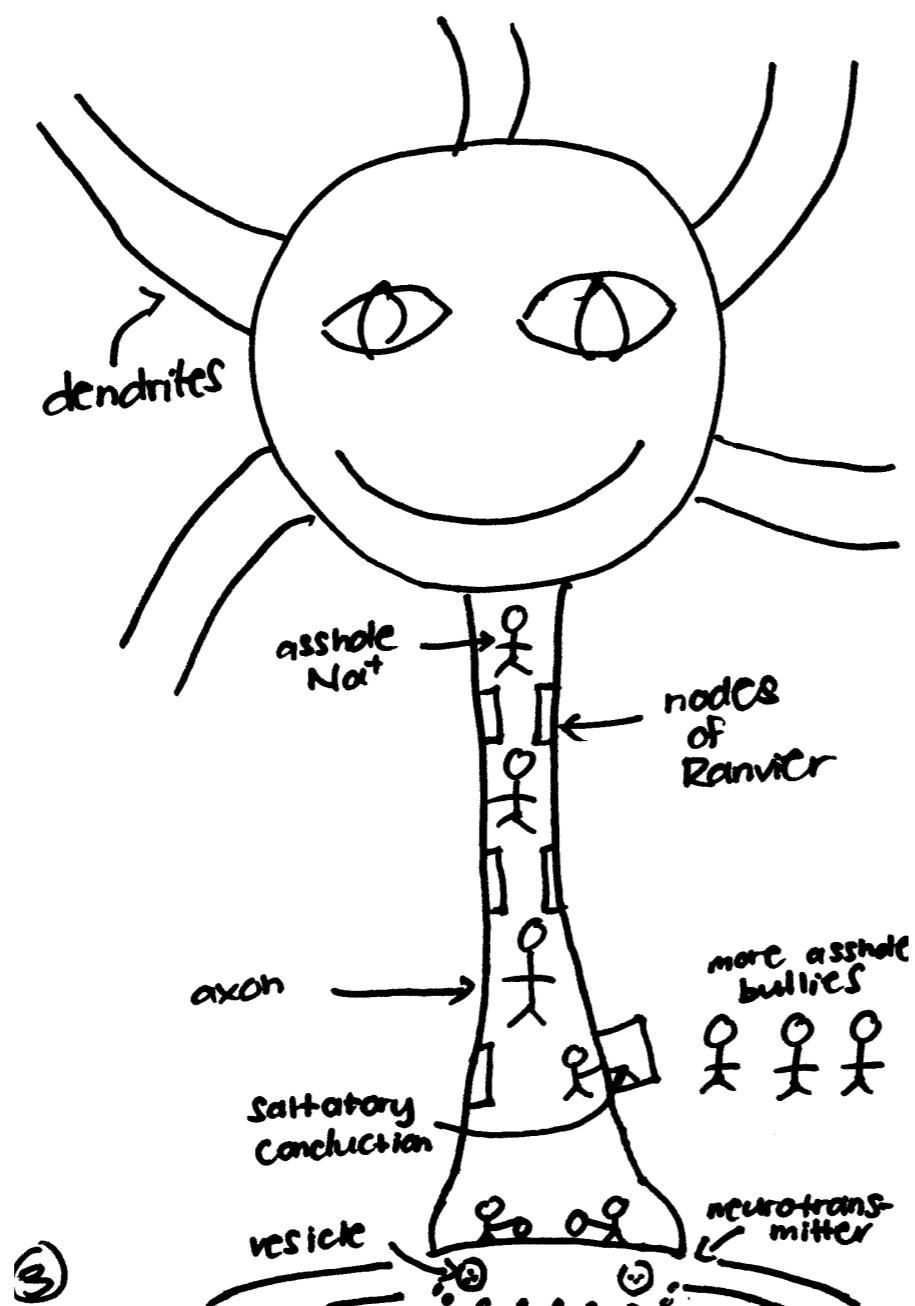


The Body,  
ELECTRIC  
by @teon\_io



# What is EEG?

The Neuron



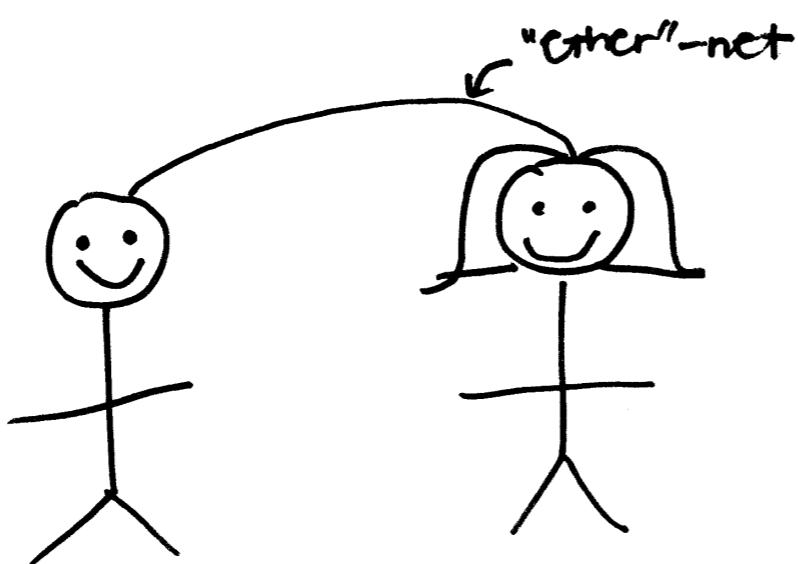
# What is EEG?

EEG

electroencephalography

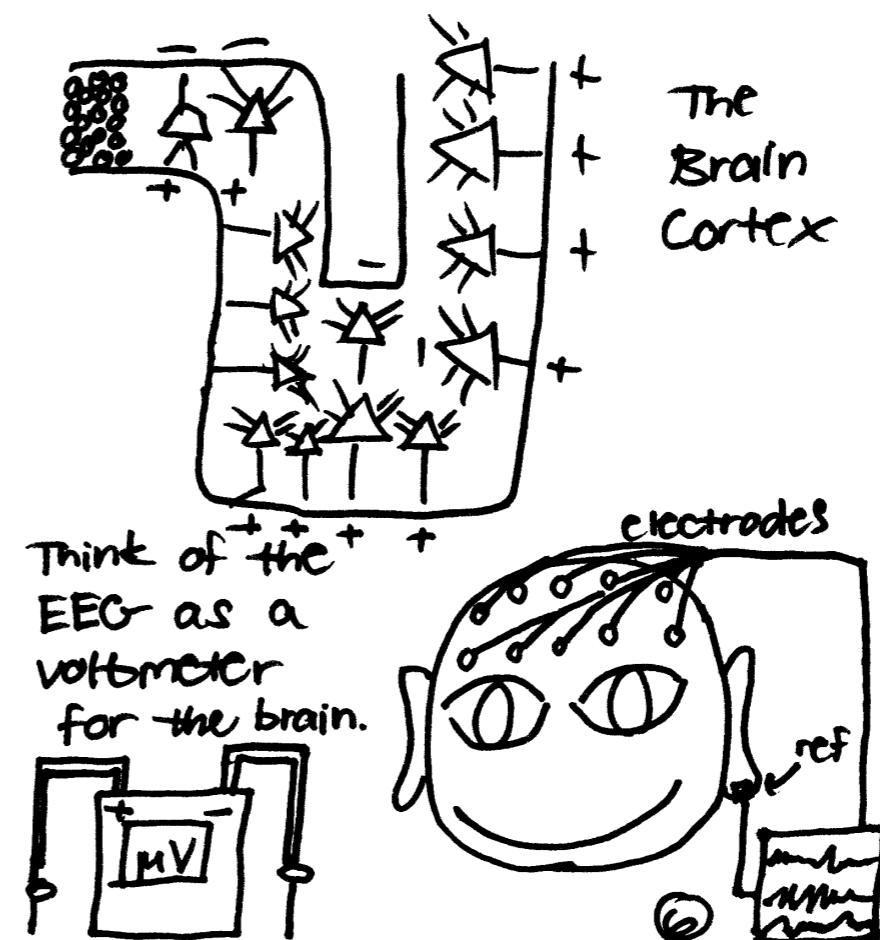
- measures electrical activity related to brain processes.

This technique was developed by Hans Berger.



He thought that individuals were connected to each other by an invisible force (psychic energy). (5)

But actually, EEG activity most closely reflect local field potentials from populations of neurons firing synchronously.



# What is EEG?

- EEG is short for electroencephalography



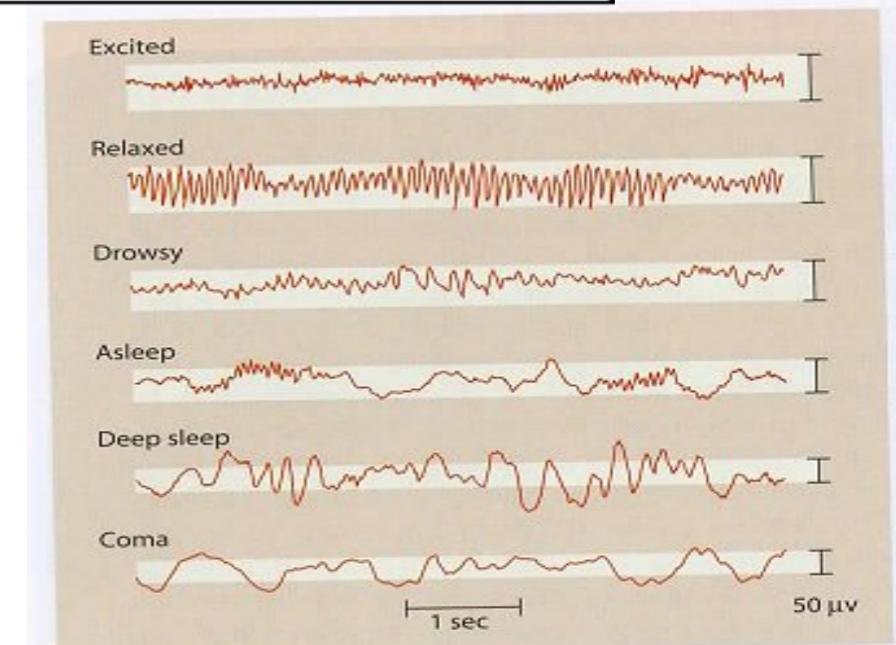
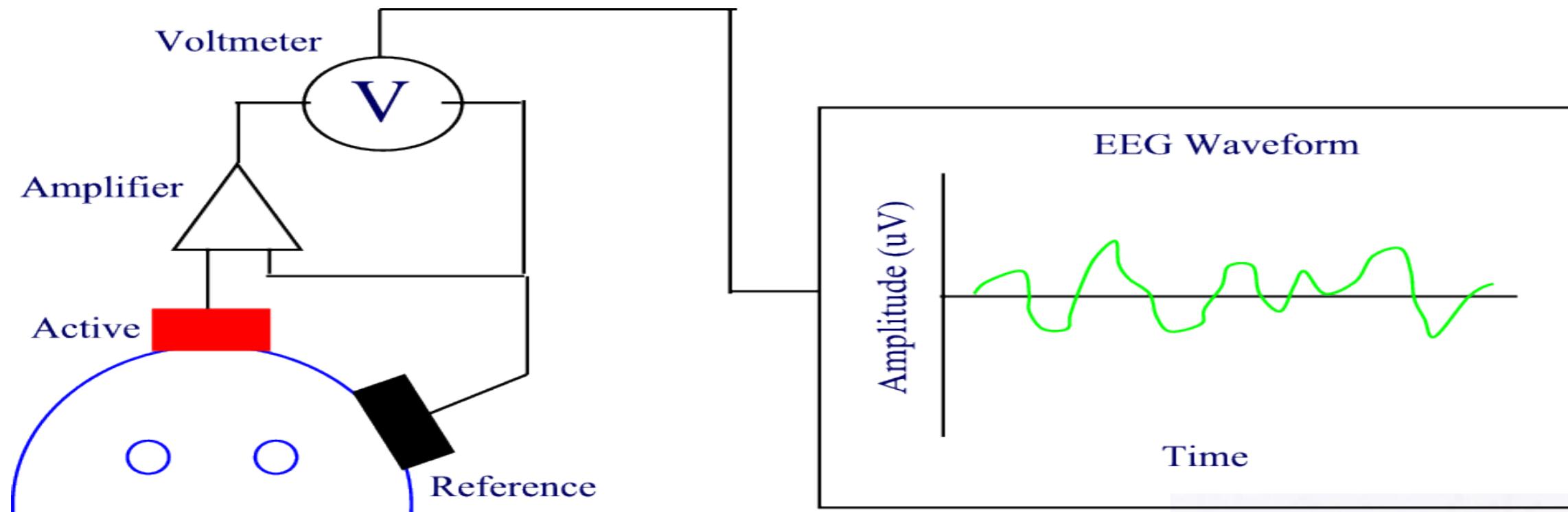
Laboratory

Commercial



DIY Hacker

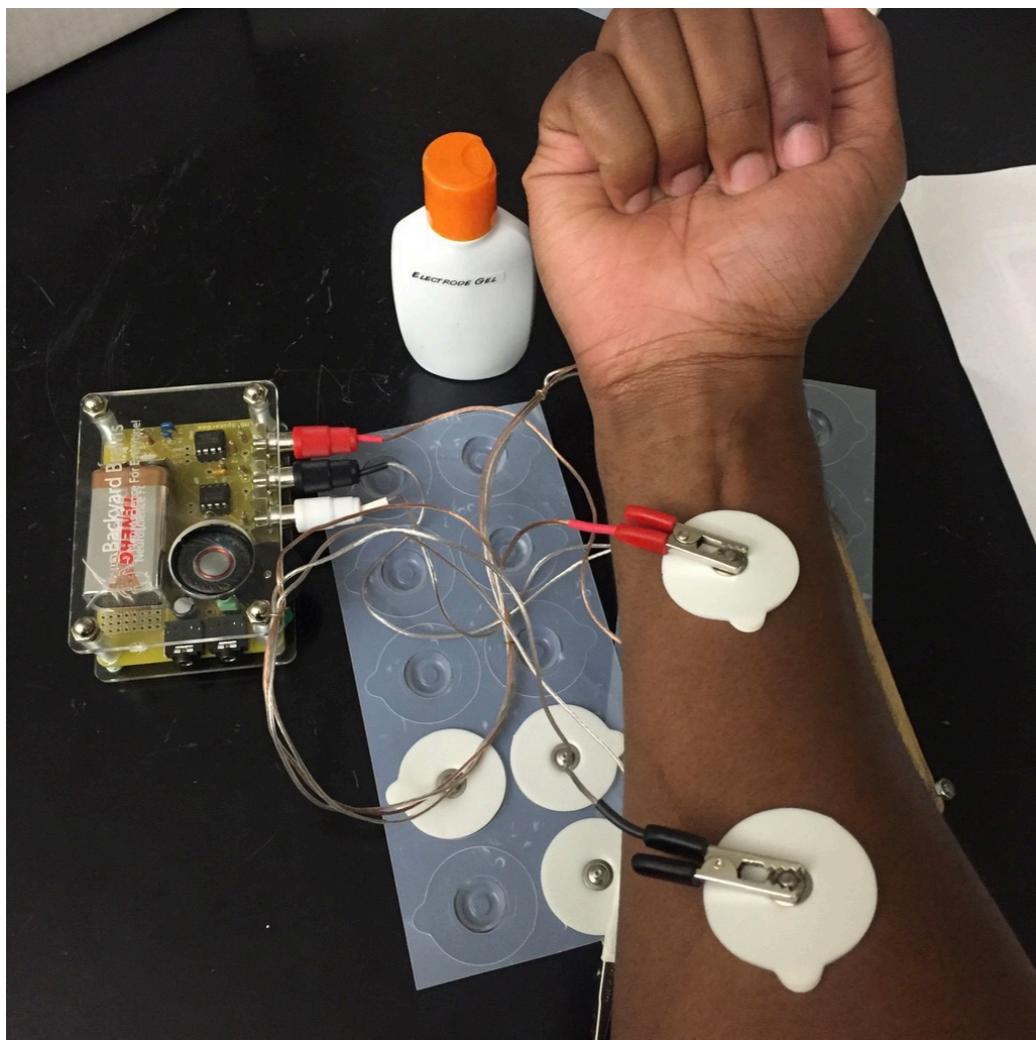
# What is EEG?



**Figure 4.24** EEG profiles obtained during various states of consciousness. From Kolb and Whishaw (1986) after Penfield and Jasper (1954).

# Open Source Hardware

T: @BackyardBrains



T: @teon\_io

T: @OpenBCI

# Open Source Software



G: @OpenEXP  
G: @NeuroJS  
G: @expfactory

Not Connected

OPENEXP

OpenEXP is an open-source platform for running experiments with jsPsych and collecting EEG data with OpenBCI hardware.

LOG IN



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# Open Source Software

