[Python Denoising](https://brainflow.readthedocs.io/en/stable/Examples.html#python-denoising)

FIR Filter: <https://mpastell.com/pweave/_downloads/FIR_design_rst.html>

* 0.75 Hz high pass and 45 Hz Finite impulse Response
* A combination of butter worth , IIR filter with a zero phase, then the compatible filters of one high pass and the other low pass shall be incorporated.

What to filter out:

* Eye movements 6-10 Hz
* Blinks - 0-12 Hz (use high pass filter)
* Head movements - 20 Hz
* Jaw crunches
* Common cutoffs in EEG are between 0.1 or 0.5 Hz to reduce drifts such as body sway, or skin [potentials](https://pressrelease.brainproducts.com/eeg-artifacts-handling-in-analyzer/#:~:text=Automatic%20Inspection%20lets%20the%20user%20define%20a%20set,finding%20stretches%20of%20data%20with%20unnaturally%20little%20variation).

Importing csv file: <https://datatofish.com/import-csv-file-python-using-pandas/>

<https://ieeexplore.ieee.org/document/9862906>

[Plotting Raw Data](https://neuraldatascience.io/7-eeg/erp_filtering.html)

Questions for Maytree

1. Why does our data look weird?
2. Ask questions on filter bandwidth, iir, fir? [what the f is iir and fir]
3. How to link eeg data to spotify
4. Cross check frequency of stress? [13-30]
5. How to go about the machine learning part?