Case alcoholic and non-alcoholic

Qüestions

3 Step: Data acquisition

How to load the data?

To load the data we are downloaded the data, and then we use the gzip library for decompress the files and then read the different files using the os library of each directory.

Another important concern is how to save the data once read it?

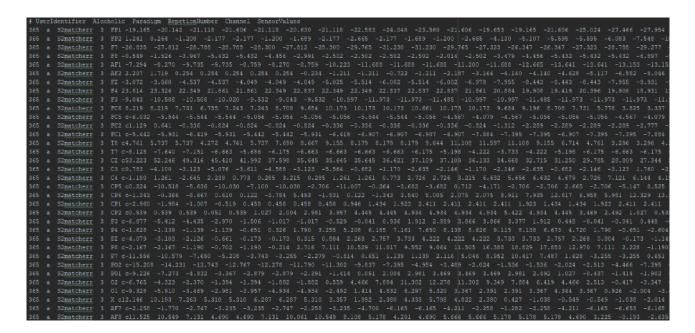
When the data are extracted and readed, we writte it in a new document with all the information that we need (user id, alcoholic, paradigm, repetition number, channel).

In which format the data needs to be kept?

We save the data in a text file format. We didn't find necessary to care about the format.

How many data we want to deal with?

We process all data, because we need to see the differences better.



The data goes on but we have not been able to represent all of it in screenshot.

4 Step: Data Exploration

Do you detect any problem with your data?

Yes, the problem we detect is that there are some users that have the same ID, only changing if they are alcoholic or non-alcoholic, a good data need to mark the difference between ids.

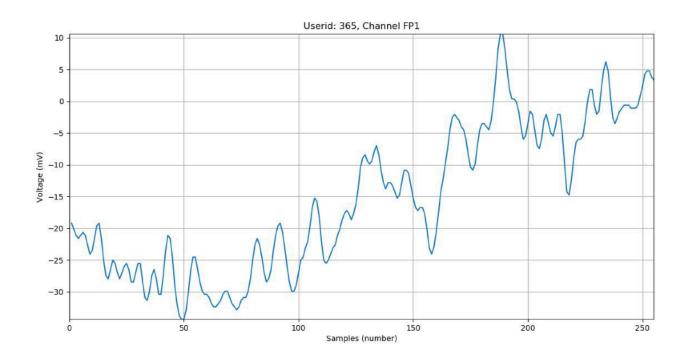
Are there any outliers?

We do not detect any more

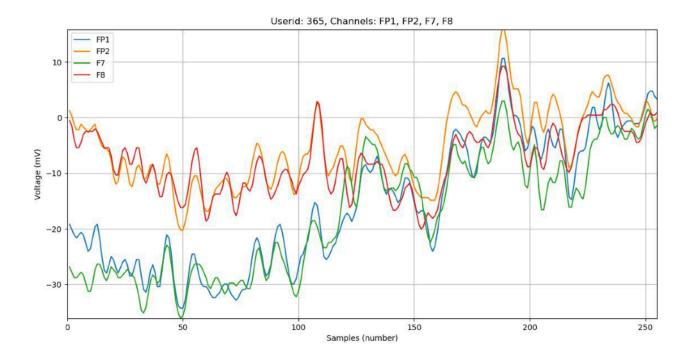
Do the users have the same number of samples?

No more users don't have the full set of samples

4.1. Exercise 1 Represent the 'FP1' channel (first one). Be sure to correctly specify axis. Hint: we recommend to use something like this



4.2. Exercise 2 Represent the 'FP1' channel (first one) as well as the next 3



4.4. Are there any outliers? First you need to define what is an outlier?

No, we don't find any outlier. An outlier is a data that is much smaller or bigger than the near of the line or data point. More or less, the range of the channels's voltage is between -35mV and 25mV.

5 Step: Data Cleaning, Data Transformation nd Reporting

Why data can't be Clean at first?

Because we don't have all complete data, invalid values and some values that are outliers are ingored.

Is our data in a tidy format?

At first no, but after processing and comipled the data are tidy. It could be better sorted like the channel number (from 1 to 64) in columns.