# Exploring opto data before sorting

## Problem:

movement artifacts in recorded multichannel data result in erroneous or unusable data when spike sorting

Base level solution:

Use **c**ommon **a**verage **r**eference (CAR) or **c**ommon **m**edian **r**eference (CMR) to reduce artifacts/noise that is common across recorded channels

## Needed Capabilities:

Plot and scroll through data

select channels to export for sorting (or do this in Plexon?... what about other sorters that use geometry of sites on electrode?)

## Plotting long time series

how to handle “big” data in MATLAB?

how to plot and “scroll” through data”

some ideas:

<https://github.com/edden-gerber/time_series_analysis_and_statistics/blob/master/plotting/multichanplot.m>

<https://www.mathworks.com/matlabcentral/fileexchange/1670-scrolling-plot-demo>

* step 1

information point

* + sub point
  + sub point

## section 3

* *note 2*
* *note 3*
  + N.B.:
* Step 1
* **ALERT!**

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