**Big well data visualization**

Important things to be able to visualize:

* An interactive map with all wells
  + Choose a well
  + Possibility to mark an area with specific wells
* Well logs (9 parameters)
  + Visualize all 9 parameters for one well
  + Compare one, two or more
  + Compare human and machine made
* Histogram
  + One well or several (marked area)
  + Show distribution of values from wells when more than one well
* Scatterplot
  + Several wells (2-1000s) (be able to choose parameters on x and y axis)
    - Legend on side with all well names or interactive with name when touching the well data on plot
  + Cluster (do we cluster by values or automatic?) (can be possible to cluster lithology, porosity)
  + 1:1 correlation (example: gamma ray from human made vs. machine made, two datasets?)

Ideas for parameters in scatterplot 🡪 can possibly cluster these values:

* Density vs neutron (combination of the density and neutron logs provides a good source of porosity data)
* Gamma vs density (lithology indicator)
* Gamma vs resistivity (define lithology fields)

Why cluster big well data?

* Seek trends and correlations to improve drilling results
* Encountered issues as misplaced data
* When displaying many wells in scatterplot with two values against each other you can see if a well is a mismatch. If you see bad data points from a well: check well log to see the problem