

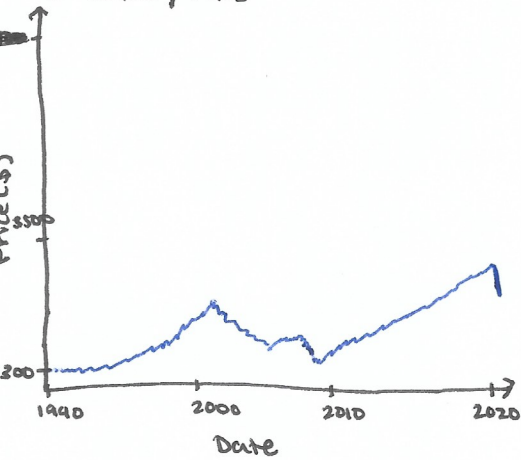
Sketches

Potential UI Elements:

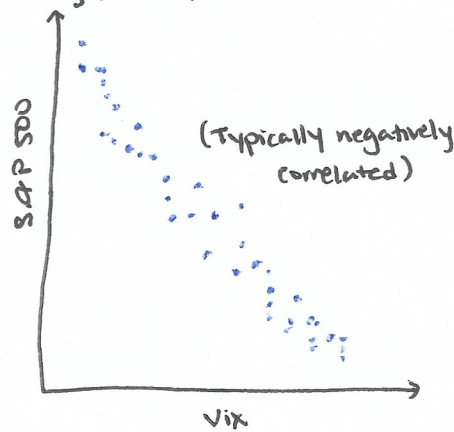
- Select an Index: (will be initially set to the S&P 500 Index)
- Select a Period: (Two options - recession and non recession; will be initially set to null)
- Select a Crisis: (Options will be epidemics and pandemics; will be initially set to null)

Potential visualizations:

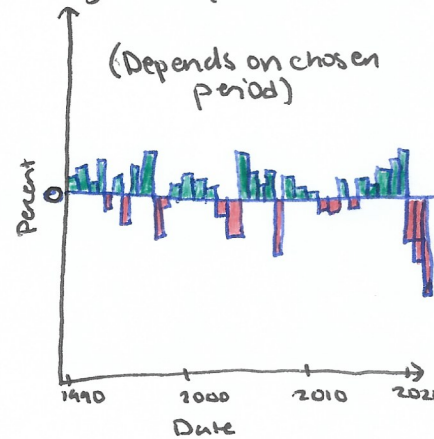
Simple time-series line chart
Adjustable y-axis



Scatter Plot - VIX vs. Index
Adjustable y-axis



Period change of Index
Adjustable y-axis



Mockups:

Using a dashboard type layout, it would be best to put the time-series line chart and period change of Index bar chart side by side and (potentially) put the scatter plot beneath them both. The drop-down elements (or other selection UI elements) will update each visualization simultaneously.

For each visualization, a tooltip would be beneficial and would include the date and value. A color scale may be implemented using the Index names, but would only be used for the line chart and scatter plot.

For the period change of Index, **negative values** would have **red bars** and **positive values** would have **green bars**. Each visualization will also have an updatable y-axis since each index has a different range.