Hi Sunny –

The first chart will be the main chart on the website and will depict CSI along with a few other datapoints. All the datapoints will be hosted on pythonanywhere and I will follow up shortly once initial data is uploaded. The chart should be able to dynamically read the table on pythonanywhere… that way as data get updated there, it will reflect on the charts too.

The chart will have three axes which will correspond to:

Axis 1:

* CSI (lines 1 & 2)
* CSI 1 **σ**
* CSI 2 **σ**

Axis 2:

* Historical SPY data

Axis 3:

* Short Ratio

Example chart incorporating multiple axes: <https://www.amcharts.com/demos/multiple-value-axes/?theme=dark>

Design notes:

I am hoping to have the CSI line style mimic the current chart on williamgorfein.com – where line 1 is solid and line 2 is dotted.

If possible, I’d like to have the SPY data plotted as OHLC candles. I know that amCharts support OHLC style charts, but I’m unsure if its possible to combine different line styles on a multi axis chart.

Other features:

Zoom:

I would like to incorporate the horizontal zooming feature as depicted:

<https://www.amcharts.com/demos/line-chart-with-scroll-and-zoom/>

<https://www.amcharts.com/demos/data-grouping-50k-points/>

Legend:

I am torn between which legend style I like best. I think I prefer the legend on the right hand side, but we can optionally place it under the chart if we choose. Lets go with legend on the right for now.

Examples:

<https://www.amcharts.com/demos/stacked-bar-chart/>

<https://www.amcharts.com/demos/partitioned-bar-chart/>

https://www.amcharts.com/demos/highlighting-line-chart-series-on-legend-hover/

Legend on bottom: <https://www.amcharts.com/demos/semi-circle-pie-chart/>

I really like how the legend is interactive and provides a feature to hide/unhide objects.

I’m sure its easy to change later, but for now, let’s use a dark theme with animation turned on:

