Status Report 3

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Continued progress was made on our Python Bokeh map. We were able to successfully reduce the size of our html file from >500MB to ~7.5MB. This was mainly due to using a much smaller set of shapefiles, which remained more than adequate for the level of detail required for the purposes of our research. The boundaries were increased from our original Middle Layer Super Output Area level (MSOA) to Local Authority District level (LAD). While aggregating to a greater macro level can be considered a drawback, we believe that taking a step back in view will provide us a broader understanding of all of England’s regions and help us identify pockets that may require deeper analyses.

Additional features were also added to the visualization. The Bokeh map was built to be plotted on top of Google Maps using GMapPlot, which is a class from the Bokeh package. Unemployment rates from 2011 (matching the year of the rest of our data, gathered from the most recent 2011 Census) were associated to each District and added to the hovertool. In addition, the unemployment rates were split into eight different levels and were represented by a different shade of blue on the map. Based on the results of our analyses over the next few days, we will determine which additional features can be added to provide a strong visual representation of our findings.

On the crime data side that we will be loading onto the maps, we have successfully created files that should contain the aggregated information in a time-series format and a single snapshot format. By applying a crosswalk to get different aggregations to the time data, we were able to get versions of these files in time series and as snapshots, which have all been saved separately. Since all of the merge issues have already been sorted, it should be a relatively straight forward next step to merge on the SES data and perform regression analysis. We are also in a position to create descriptive statistics at multiple levels.