## Project #1 Write-up Peter Lo (SID: 915185612)

For my project, I chose to work with the Stack Overflow Survey database. As a computer science major who has yet to decide on a career path, I thought it'd be of interest to me and to my peers to explore the thoughts of those who were in my same shoes but are now pursuing fulltime careers as professional developers. For my first visualization, I chose to create a heat map of the entire world in terms of visualizing which countries responded, and how many people within that country responded to the survey. The map was created using Leaflet, and I utilized the Google geocoding API to retrieve the country name based on latitude and longitude coordinates. All the countries are color coded by a color scale, with countries with greater amount of responses being colored a darker hue and countries with less amount of responses colored with lighter hues. The range in color hues allows the user to easily visualize the amount of responses per country. The user can continuously click on countries, and the map passes the data from the last two clicked countries to the other two visualizations to compare. For my second visualization, I created a radar chart to depict the percentage of developer types per country. Upon hover over the radar, the selected radar omits a glow visual to distinguish from the other radar. Upon hover over the dots on the radar, the percentages of that respective developer type will pop-up. The glow effect and differing colors distinguish between the two countries radars. I chose red and blue as the colors to increase the contrast between the two. For my third visualization, I created a parallel coordinates graph. The graph takes in four different variables, the respondent's age, years of coding experience, how many hours they work a week, and their salary converted to annual USD salaries. By doing so, the user can brush each axis or variable to

visualize the relationship between all four variables. Just as before, I've color coded the paths to distinguish between the two countries' data.