How the Map Works

* I built the map using the Google Maps API which allows for the display of the map, info windows, and heat spots.
* Line 1 to 171: customizing the look of the map and assigning the stores with customized markers.
* Line 172 to 177: allows for the display of the congestion data and the name of the stores via info windows on the screen.
* Line 181 to 205: the getCongestion() function is the important bit that pissed me off a lot but now it works so I am very proud.
  + It first figures out the radius of the store.
  + Then it goes through all of the location data that we have, any data points within that radius gets included as traffic inside the store.
  + It then calculates how many people the store is supposed to support according the governmental guideline of 5 people per 1,000 sqft.
  + Lastly it takes the number of people in the store and divide it by how many people the store can safely have and gives out a percentage to show how risky the store is for immunocompromised individuals.
  + **Essentially, the function takes a store as input, finds all the data points inside it and spews out the density as a percentage.**
* Line 207 to 215: the function textColour() determines what the colour of the percentage is displayed. Anything over 100% (not safe) is displayed in red, 50-100% (safe but risky) is displayed in orange and anything below 50% (safe) is displayed in green.
* Line 217 to 1210: I wrote a python script that randomly generates data points and these are the fake data points.
* Line 1213 to 1294: all the store details are stored here. This includes the coordinates of the store, the name of the store, the size of the store, and the type of the store.
  + In the future we could include other types of stores.
  + We may also store other info.