1. I went to speak to Shujun again. I showed him what I had currently. I mentioned that I am trying to figure out how to plot the algorithm but I haven’t figured it out. He showed me some algorithm on how to plot them. We also talked about getting a real database. He showed me some links he had shown me before so I would go over them.
2. I tried to follow but I couldn’t understand much.
3. I went home did some research on databases. All the ones I could find were hashed. None of them could work out.
4. I found something what I thought was amazing. <https://github.com/philipperemy/tensorflow-1.4-billion-password-analysis> underneath you can see all the articles about these passwords and the purpose of these passwords. I started using some of them.
5. I picked a few data files from this, installed a python randomizer to my notepad, randomized a big bunch and took a chunk of it. Got a passwords database with around 10k passwords now.
6. I tried figuring out again how to use the formula Shujun gave me. I couldn’t really understand it.
7. Skip forward a few weeks I finally figured out about what radians are and how to use the formula Shujun gave me to plot the graph, once I figured out how the math works, it was fairly simple to get a simple implementation working.
8. I added a hardcoded colours based on the radius (edit distance) in a switch statement where they change bit by bit.
9. I also added some scaling which would work by getting the lowest radius and highest radius, and using JavaScript to get some medium of radius and scaling all of the radiuses before plotting the graph. The next step was to create some zooming buttons.