SI 507: Final Project Proposal

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For my final project, I plan to visually display information about Marvel characters. Using the Marvel API, I would be able to collect information of any Marvel character in their database. I plan on getting my 8 challenge points by:

Marvel API, requires API and MD5 Hash – 4 points

Web scraping a new page – 4 points

\*Possibly scraping multiple pages on a site I haven’t used before – 8 points

To use the Marvel API, you need a public key, a private key and a timestamp. Using these 3 you have to create a new MD5 hash which is needed for using the API. I plan on presenting an image of the character, data graphs on information such as how many comics, events, series, and stories they have been part of. For my presentation tools, I plan on using an HTML page or another alternative to represent information on the characters.

The data sources I plan on using are the Marvel API to get information about Marvel superheroes. Each API calls returns character id, name, description, resourceURL, list of public website URLs where I can find more information, and list of all comics, stories, events, and series they are part of. Documentations can be found here “https://developer.marvel.com/documentation/entity\_types”.

\* If the API doesn’t work for some reason, as a backup, I can web scrap through “https://www.marvel.com/characters” and get a list of characters and scrap through their specific pages and collect data on their bio, comics, series, and movies. An example of a character page is ”https://www.marvel.com/characters/captain-america-steve-rogers”.

For presentation, I will use plotly to display the different stats such as number of their powers, list of their powers, number of movies and comics, listing all of the comics and movies they are a part of and a comparison between characters.