Documentation Page

For designing my visualization I tried a few different things in the beginning. I threw the CSV into Tableau and drew a few visualizations out to see what it might look like. Tableau let me see what data attribute fits with another data attribute, and drawing helped me visualize what I wanted to do with the data. When designing I was fond of scatterplots, hoverable charts, and clickable buttons. I was able to fit most of that into the final visualization, but in the end, I really liked the bar chart more. It was easier to tell differences and make interactivity with a bar chart.

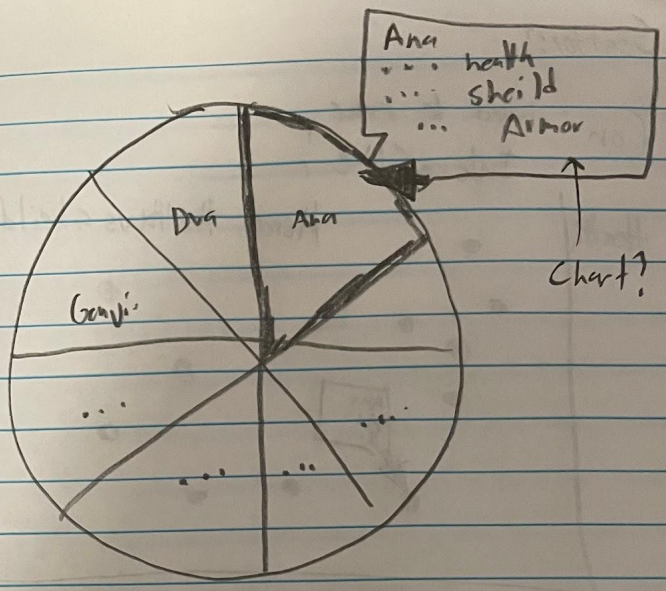
Now, I will explain my design process. A bar chart was made for the data because it easily shows the differences between the heroes. There are also seven buttons the user can click that will change the chart. These buttons were placed in the middle of the page so that the user can easily switch between them. The place of the hero on the x-axis never changes, so the user doesn't have to search for a new hero if the chart changes. The y-axis and its data is the only value that changes. The chart was arranged like that when it was coded in, so I left it that way because I liked it. I also made the chart size the majority of the webpage since it was the main focus of the visualization. Moving on, the main color of the bar chart is orange because that is the main color for the game "Overwatch." The buttons have blue text because it needs to stand out when you first view the page. This way the users would know they are there. Blue also just naturally fits with orange for color combination. I added an alternate color mode because I thought it would help if someone thought the chart was too bright or needed visual accommodations to view the chart. Then I added normal color mode in case they want to switch it back to orange. Also, when hovering the chart in normal mode it will outline whatever bar you are hovering over to black and change the bar to a light blue. For the alternate color mode, it will do the same. This is beneficial so that the user knows where their location is on the bar graph. There is also a tooltip that reads the statistic for the bar you are hovering over. I added text to the tooltip so that it wasn't just a single number.

The main questions I wanted my chart to answer were "What characters have the highest/lowest health? The second is, "What characters have the highest/lowest shield?" The third is, "What characters have the highest/lowest armor?" Finally, "What characters are higher or lower difficulty?" These would prove to be the most useful questions. Although, the CSV had the age of the characters in it, so I added it in as a bonus. From that chart, you could just see what characters are old, young, or have an unknown age. This is interesting if you wanted to know some lore or history of the characters. I noticed more people had armor when compared to shields. Most heroes averaged two hundred health with the outliers being six hundred health. There was almost a randomness to the shield and armor that was given to some heroes. The oldest character was Sigma and the youngest was Wrecking Ball. Orisa has the highest armor and Torbjorn has the lowest. Zarya had the most shield, and there was a two-way tie for the lowest shield (Sigma/Symmetra). For health, there were 3 heroes with 600 health (the max), and the lowest being tracer (150). For difficulty, there are more two star heros than anything, and less ones stars.

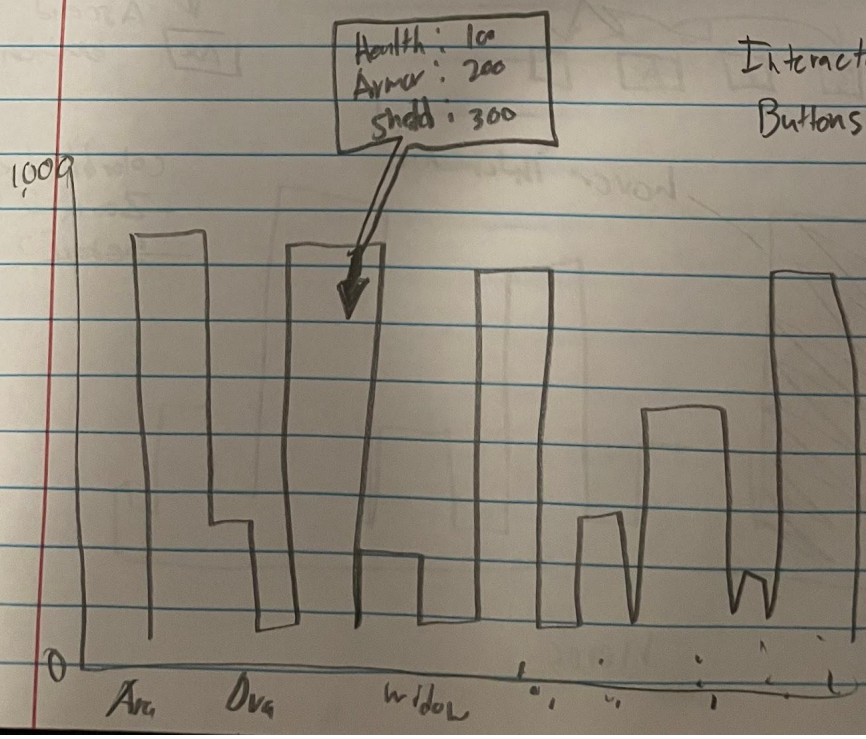
DRAWINGS BELOW:

Final HCI on HERO's

Pie:

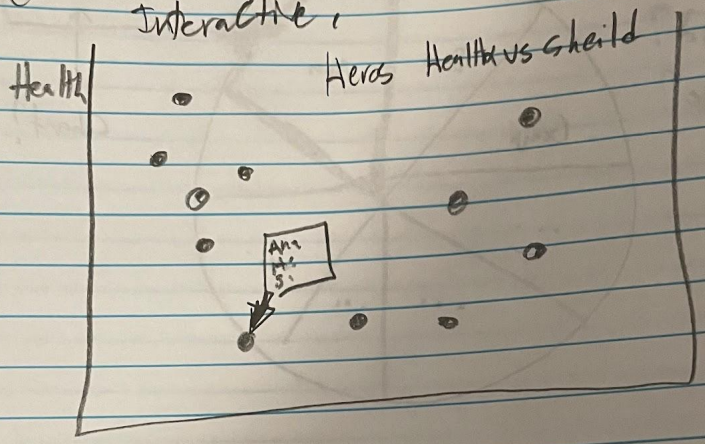


Bar:

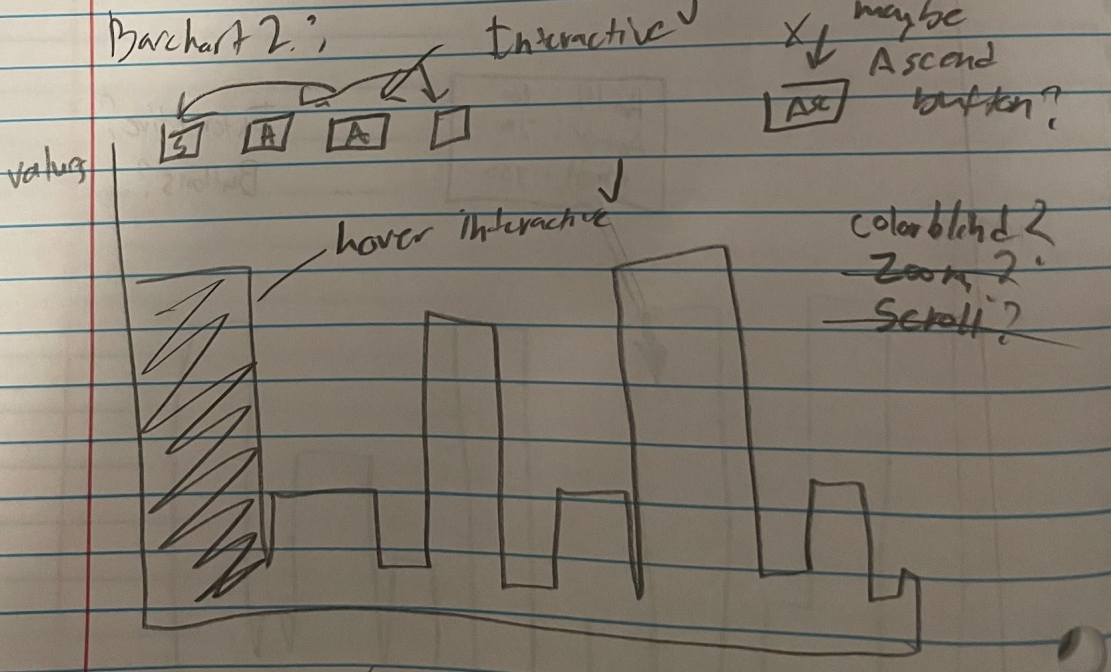


Scatter:?

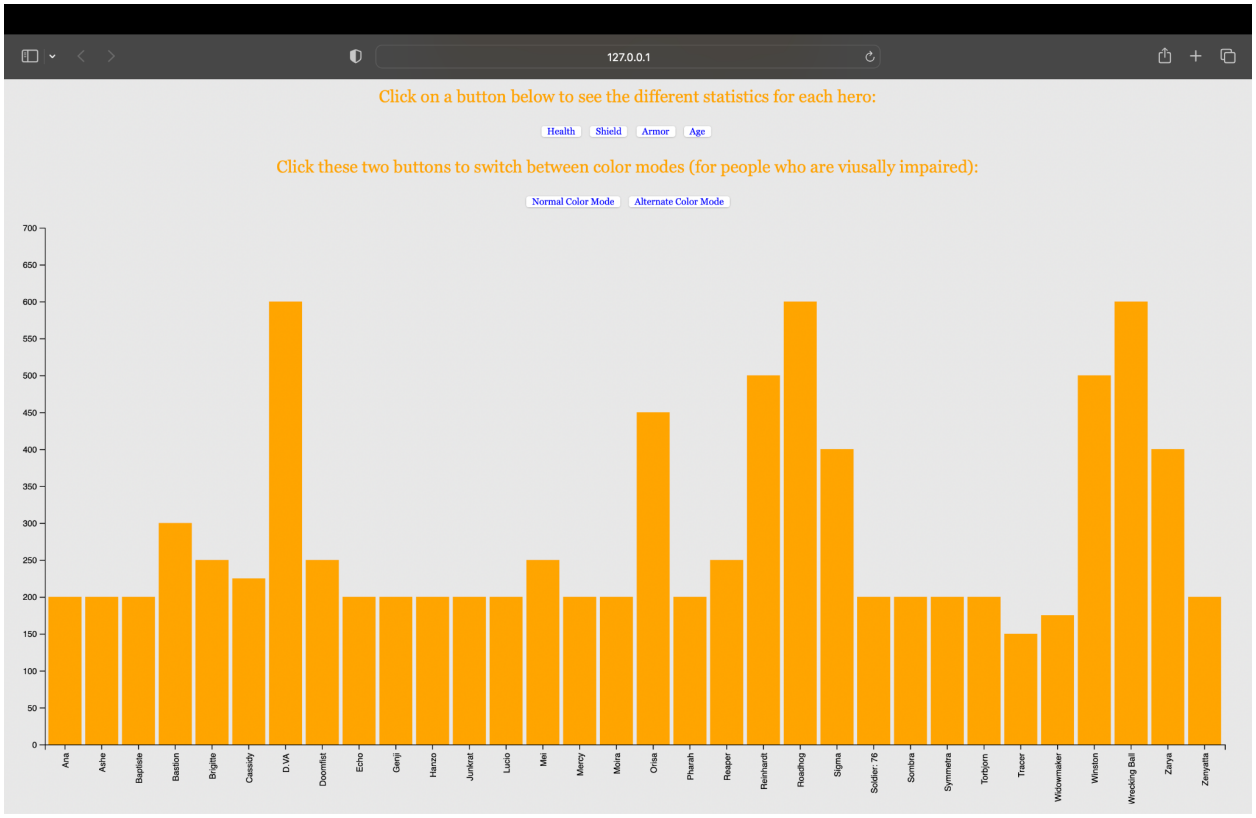
Con: hard to make interactive?

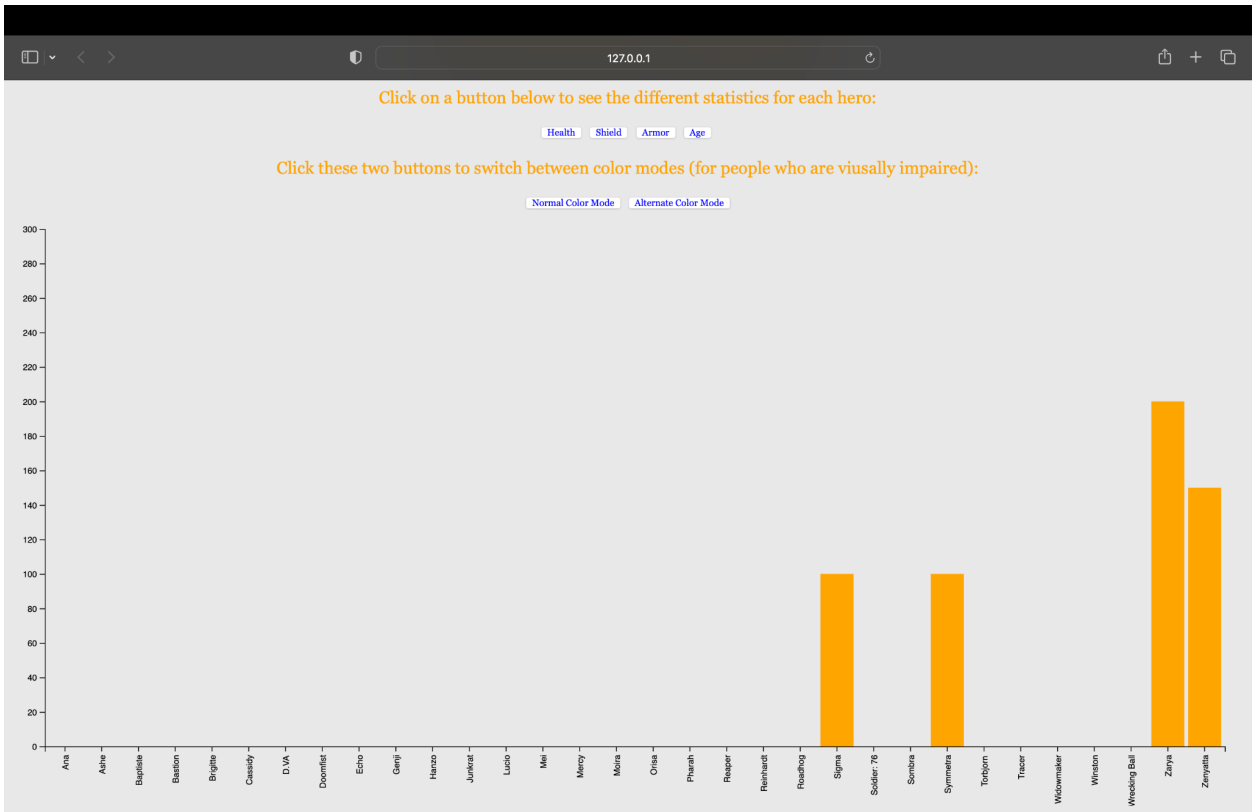


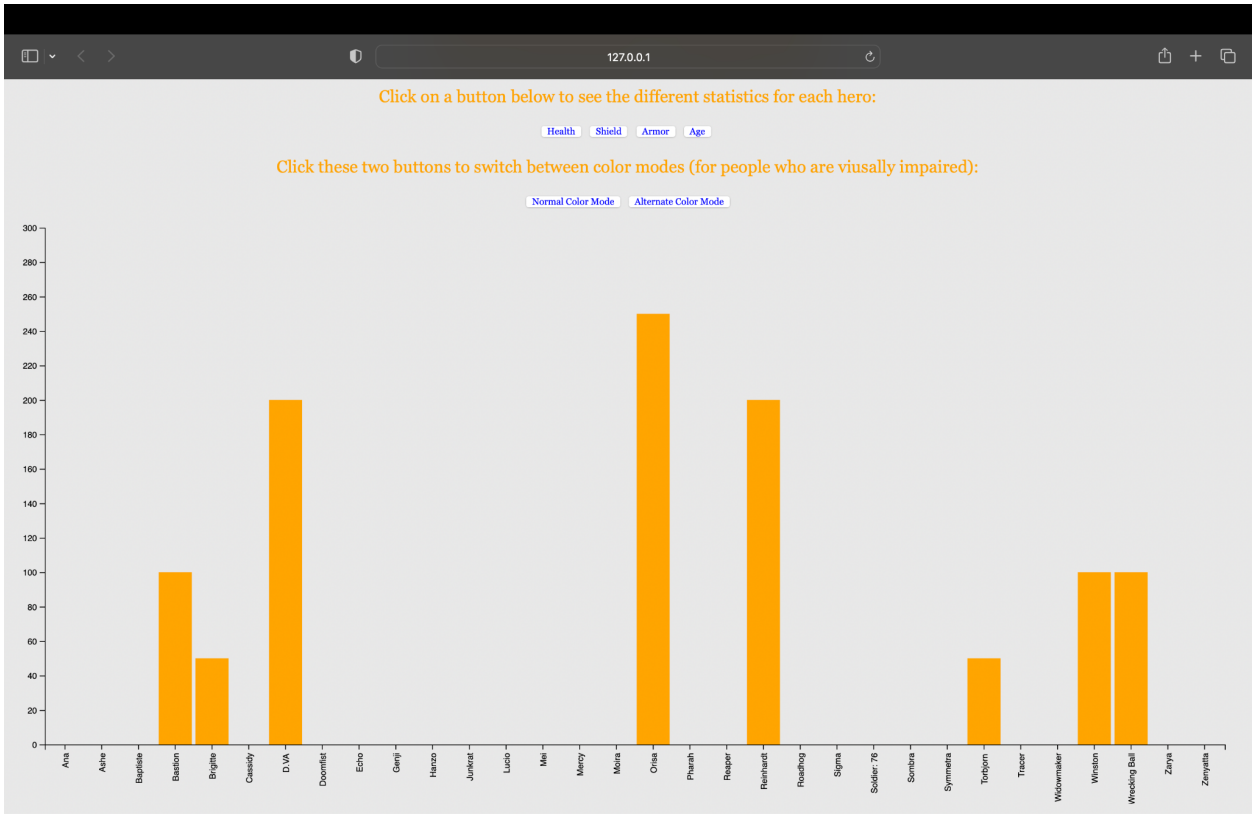
Barchart 2.?

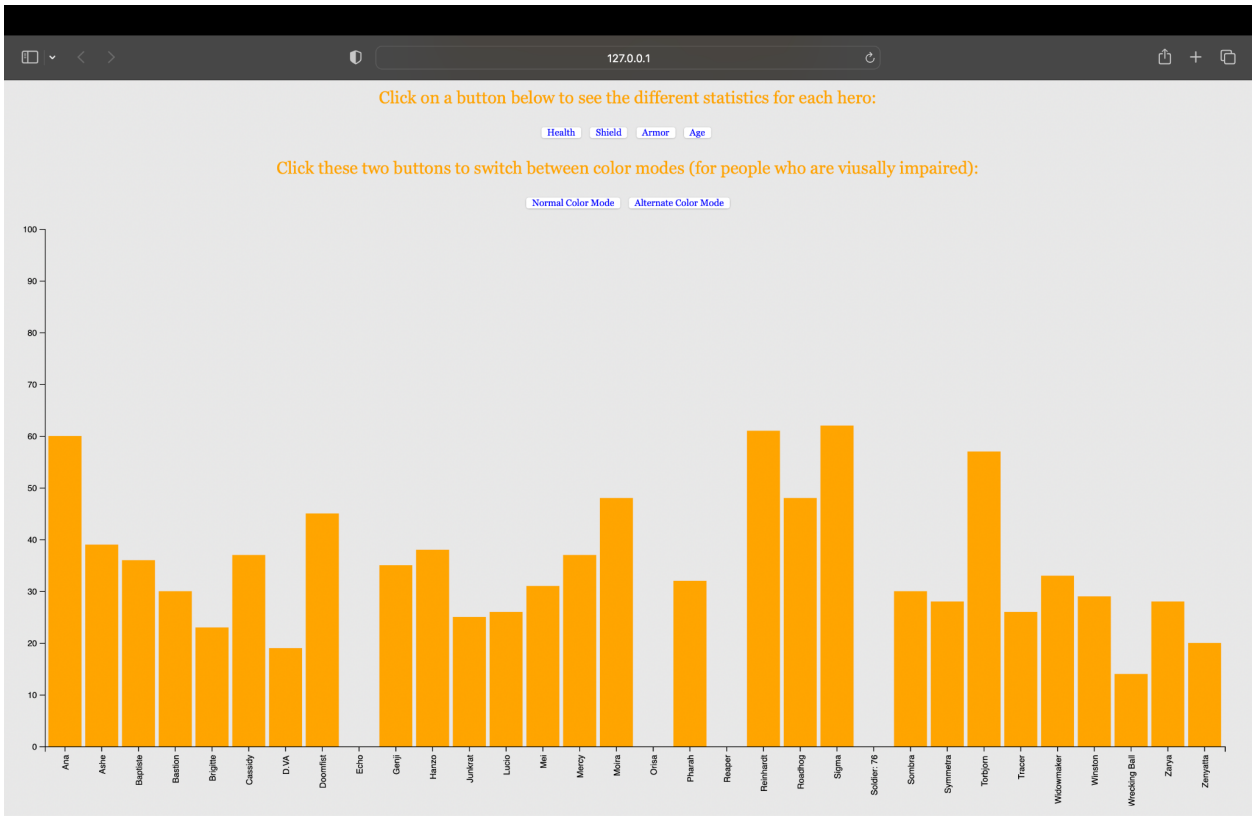


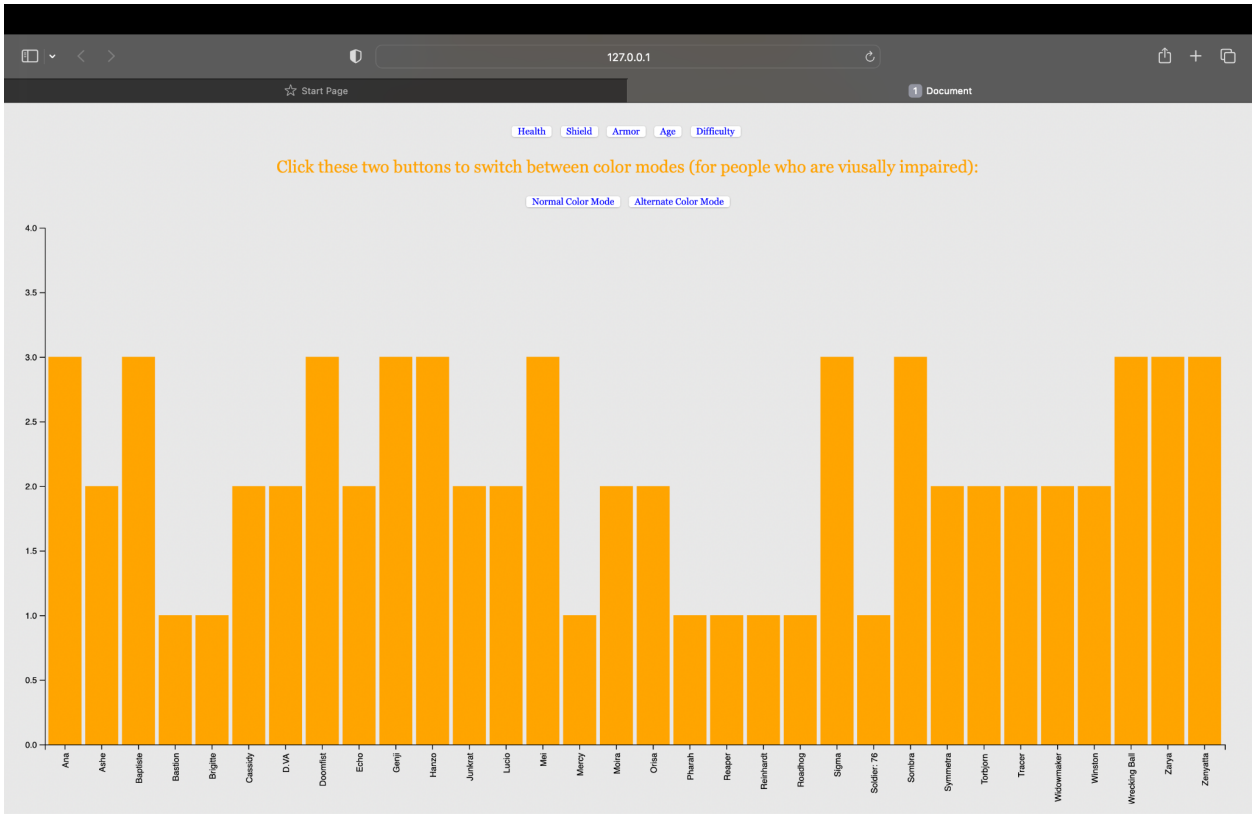
SCREEN SHOTS TO PROVE QUESTIONS: (these are the different data attributes or buttons you can click)


127.0.0.1
Click on a button below to see the different statistics for each hero:
Health
Shield
Armor
Age
Click these two buttons to switch between color modes (for people who are viusally impaired):
Normal Color Mode
Alternate Color Mode
700
650
600
550
500
450
400
350
300
250
200
150
100
50
0
Ana
Ashe
Baptiste
Bastion
Brigitte
Cassidy
D.VA
Doomfist
Echo
Genji
Hanzo
Junkrat
Lucio
Mei
Mercy
Moira
Orisa
Pharah
Reaper
Reinhardt
Roadhog
Sigma
Soldier: 76
Sombra
Symmetra
Torbjorn
Tracer
Widowmaker
Winston
Wrecking Ball
Zarya
Zenyatta


127.0.0.1
Click on a button below to see the different statistics for each hero:
Health
Shield
Armor
Age
Click these two buttons to switch between color modes (for people who are viusally impaired):
Normal Color Mode
Alternate Color Mode
300
280
260
240
220
200
180
160
140
120
100
80
60
40
20
0
Ana
Ashe
Baptiste
Bastion
Brigitte
Cassidy
D.VA
Doomfist
Echo
Genji
Hanzo
Junkrat
Lucio
Mei
Mercy
Moira
Orisa
Pharah
Reaper
Reinhardt
Roadhog
Sigma
Soldier: 76
Sombra
Symmetra
Torbjorn
Tracer
Widowmaker
Winston
Wrecking Ball
Zarya
Zenyatta


127.0.0.1
Click on a button below to see the different statistics for each hero:
Health
Shield
Armor
Age
Click these two buttons to switch between color modes (for people who are viusally impaired):
Normal Color Mode
Alternate Color Mode
300
280
260
240
220
200
180
160
140
120
100
80
60
40
20
0
Ana
Ashe
Baptiste
Bastion
Brigitte
Cassidy
D.VA
Doomfist
Echo
Genji
Hanzo
Junkrat
Lucio
Mei
Mercy
Moira
Orisa
Pharah
Reaper
Reinhardt
Roadhog
Sigma
Soldier: 76
Sombra
Symmetra
Torbjorn
Tracer
Widowmaker
Winston
Wrecking Ball
Zarya
Zenyatta


127.0.0.1
Click on a button below to see the different statistics for each hero:
Health
Shield
Armor
Age
Click these two buttons to switch between color modes (for people who are viusally impaired):
Normal Color Mode
Alternate Color Mode
100
90
80
70
60
50
40
30
20
10
0
Ana
Ashe
Baptiste
Bastion
Brigitte
Cassidy
D.VA
Doomfist
Echo
Genji
Hanzo
Junkrat
Lucio
Mei
Mercy
Moira
Orisa
Pharah
Reaper
Reinhardt
Roadhog
Sigma
Soldier: 76
Sombra
Symmetra
Torbjorn
Tracer
Widowmaker
Winston
Wrecking Ball
Zarya
Zenyatta


127.0.0.1
Start Page
Document
Health
Shield
Armor
Age
Difficulty
Click these two buttons to switch between color modes (for people who are viusally impaired):
Normal Color Mode
Alternate Color Mode
4.0
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
Ana
Ashe
Baptiste
Bastion
Brigitte
Cassidy
D.VA
Doomfist
Echo
Genji
Hanzo
Junkrat
Lucio
Mei
Mercy
Moira
Orisa
Pharah
Reaper
Reinhardt
Roadhog
Sigma
Soldier: 76
Sombra
Symmetra
Torbjorn
Tracer
Widowmaker
Winston
Wrecking Ball
Zarya
Zenyatta