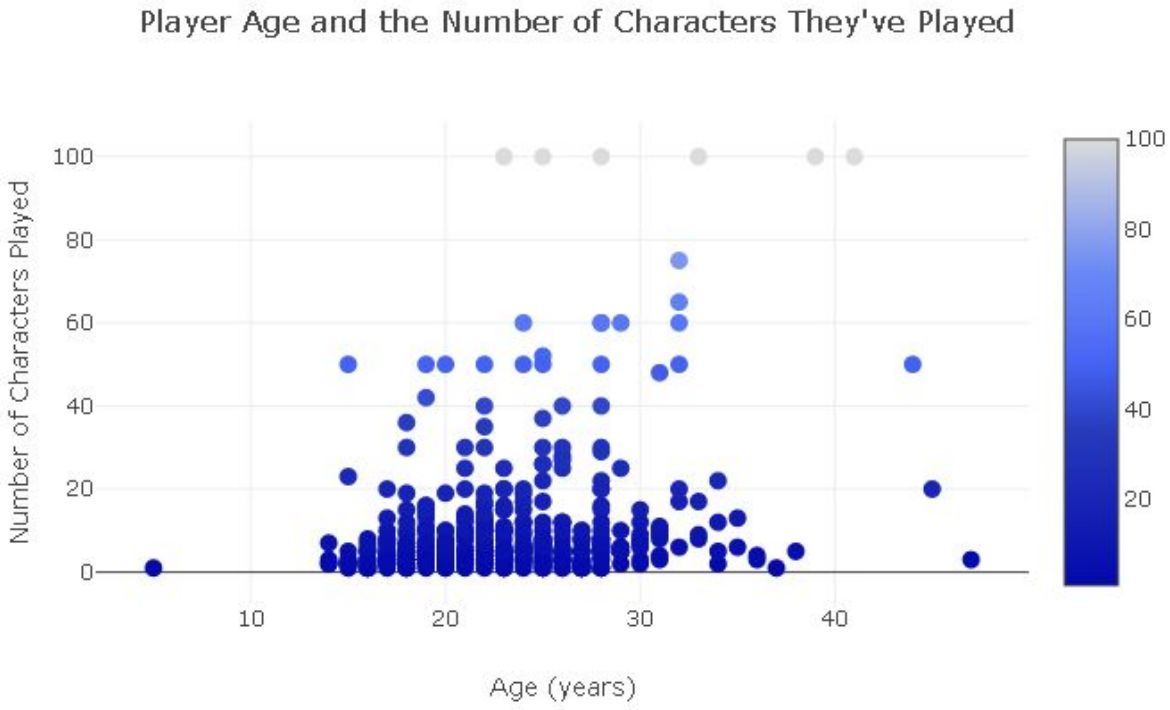
CS4770
Ashlea Walker
Bubble Chart
5/9/2019



The data I am using comes from a survey I conducted for my other class, Statistic for the Sciences, that was to explore possible correlations between people who play Dungeons and Dragons and their favorite character they've ever made and played. The survey received 458 responses.

The data being shown is a plot of a Dungeons and Dragons Player to the Number of Characters they've Played. As is evident by the plot, their relationship is non-linear. Since this is the case, the other proper way to graph numerical values against each other is to use a scatter plot (or a bubble plot). This way, the groupings and outliers could be easily seen.

Color was added to the chart for visual interest and to allow the viewer to more easily see when the dark cluster becomes more spread out. From this chart, we see that in the range of 15 year olds to 31 year olds, the most common amount of characters a person has played is approximately 1 to 20. There are also a number of suspected outliers who have played 100 characters. These can be seen at ages 23, 25, 28, 33, 39, and 41. This could either be due to the people taking the survey misreading discluding created Non-Player Characters (NPCS), although, it becomes a more believable number the older the person. The other suspected outliers were the two points at age 45 having played 20 characters and age 47 having played 3 characters. These can be explained by considering how many years they have each been playing D&D. They could have gotten into the game late. Either that or they could be Dungeon Masters that correctly factored out the NPCs they have created.

CS4770
Ashlea Walker
Bubble Chart
5/9/2019

The way this chart is laid out, the relationship between a Player's age and the number of characters they have played could potentially be mapped with a trendline if there was more (accuracy ensured) data.