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Homework assignment #1

1. Given the provided data, what are three conclusions we can draw about Kickstarter campaigns?
   1. Music, Film & Video, and Theater are more likely to have successful campaigns since nearly twice as many successful compared to failed campaigns in each of those categories.
   2. Animation, Children’s books, drama, fiction, jazz, mobile games, people, places, restaurants, and video games sub-categories are not likely to succeed since they have not had any successful campaigns to date.
   3. May is the best time of year to start a campaign since it has the highest number of successful campaigns created in that month.
2. What are some limitations of this dataset?
   1. Some categories and sub-categories (e.g., Journalism, art books) have very few campaigns that limit our ability to extrapolate any reliable information.
3. What are some other possible tables and/or graphs that we could create?
   1. A stacked bar chart comparing the state of the campaign to the country where the campaign was started to determine whether the region impacts the success rate
   2. A stacked bar chart comparing whether staff picks or a spotlight could have an impact on the success rate of campaigns
   3. A pie chart depicting the percentage of which state campaigns are in

Bonus Statistical Analysis

1. Use your data to determine whether the mean or the median summarizes the data more meaningfully.
   1. The median provides a better summarization of the data since the data does not have a normal distribution and there is high variance.
2. Use your data to determine if there is more variability with successful or unsuccessful campaigns. Does this make sense? Why or why not?
   1. The successful campaigns have more variability in the number of backers as shown by the higher variance and standard deviation. This makes sense because the difference between minimum and maximum number of backers for successful campaigns is 26,456 where the difference between minimum and maximum number of backers for unsuccessful campaigns is 1293.