

Sequel

More and more new movies today are sequels to earlier, successful movies. Are sequels as good as the original film? What kind of factors or data would you consider to answer this question?

The table below gives the Metacritic¹ score from a random sample of movies and their sequels.

Movie Series	Original	Sequel
<i>Toy Story & Toy Story 2</i>	92	88
<i>Spider Man & Spider Man 2</i>	73	83
<i>Monsters Inc. & Monsters U</i>	78	65
<i>Night at the Museum & Night at the Museum: Battle for the Smithsonian</i>	48	42
<i>Shrek & Shrek 2</i>	84	75
<i>Star Wars & Empire Strikes Back</i>	91	78
<i>Pirates of the Caribbean: The Curse of the Black Pearl & Pirates of the Caribbean: Dead Man's Chest</i>	63	53
<i>XMEN & X2</i>	64	68
<i>Harry Potter and the Philosopher's Stone & Harry Potter and the Prisoner of Azkaban (1st & 3rd Potter Movies)</i>	64	82
<i>Princess Diaries & Princess Diaries 2</i>	52	43
<i>How to Train Your Dragon & How to Train Your Dragon 2</i>	74	76
<i>Hunger Games & Hunger Games Catching Fire</i>	67	75

1. Use measures of central tendency and variability (mean, median, mode, range, MAD or interquartile range) to compare the Metacritic scores of the originals and the sequels.
2. Create plots to compare the two data sets, consider a histogram, box and whisker plot or others.
3. Use your data analysis to make a case for the original movies being better.
4. Use your data analysis to make a case for the sequels being better.
5. How can we improve on our data analysis of originals movies and their sequels? How can we compare them with more certainty?

¹Metacritic is a website that aggregates reviews of movies, games, music and other entertainments.