

Sequels

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>Avengers (2012) & Avengers: Endgame (2019)</i>	69	78
<i>The Lion King 1994 & 2019</i>	88	55
<i>The Dark Knight (2008) & The Dark Knight Rises (2012)</i>	84	78
<i>Toy Story (1995) & Toy Story 4 (2019)</i>	92	84
<i>Spider Man (2002) & Spider Man 2 (2004)</i>	73	83
<i>Monsters Inc. & Monsters U</i>	78	65
<i>Shrek (2001) & Shrek 2 (2004)</i>	84	75
<i>Star Wars: A New Hope (1977) & Star Wars: The Force Awakens (2015)</i>	90	81
<i>Pirates of the Caribbean: The Curse of the Black Pearl (2003) & Pirates of the Caribbean: Dead Man's Chest (2006)</i>	63	53
<i>Harry Potter and the Sorcerer's Stone (2001) & Harry Potter and the Deathly Hallows: Part 2 (2011) (1st & 8th Potter Movies)</i>	64	87
<i>How to Train Your Dragon (2010) & How to Train Your Dragon 2 (2014)</i>	74	76
<i>Hunger Games (2012) & Hunger Games Catching Fire (2013)</i>	68	76

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 originals being better.

5. How can we improve on our data analysis of original 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.

Source: <https://www.metacritic.com/movie>

<http://www.imathas.com/stattools/boxplot.html>