

CSOC20010
Introduction to Computational Social Science II
UCD School of Sociology
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Week 3 Assignment: Wikipedia and Movie popularity

In this week's assignment, we are going to evaluate the popularity of the movies that are considered to have a good chance for the 94th Academy's Best Picture Award (Oscars-2022-best movie) through analysing the page view statistics of their articles on English Wikipedia.

To do so, please take the following steps:

1. Create a list of the following movies that are considered as big favourites by [movie critics](#) for the "best picture category" and **the exact title** of their Wikipedia articles.
 1. "The Power of the Dog"
 2. "West Side Story"
 3. "Belfast"
 4. "King Richard"
 5. "Dune"
 6. "Licorice Pizza"
 7. "CODA"
 8. "tick, tick... Boom!"
 9. "Don't Look Up"
 10. "Being the Ricardos"
2. Add the release date **in the US market** of the movies to the same table along with the movie title and the Wikipedia article titles. To find the release date you can consult IMDb <https://www.imdb.com>.
3. Using the Python code provided, extract the Wikipedia daily page view statistics for the movies in a time window of 59 days before and 60 days after the release date (120 days in total) and plot the statistics for all the movies in one diagram. You can start counting the days from 2 months before the release date so that the release date for all the movies is day=60.
4. Read the largest number of daily views for each movie (which is likely to be on the release date) from the diagram and add it to the above table (which will now have 4 columns).
5. Write a short report with the table and the diagram described above and your interpretation and conclusion (and perhaps prediction!)

If you have any issues with the Python code provided, you can use the Wikipedia API directly through the following URL, which you'd need to change for the movie and dates that you're interested in

https://wikimedia.org/api/rest_v1/metrics/pageviews/per-article/en.wikipedia/all-access/all-agents/Albert_Einstein/daily/2015100100/2015103100.