

5513 - Assignment 4

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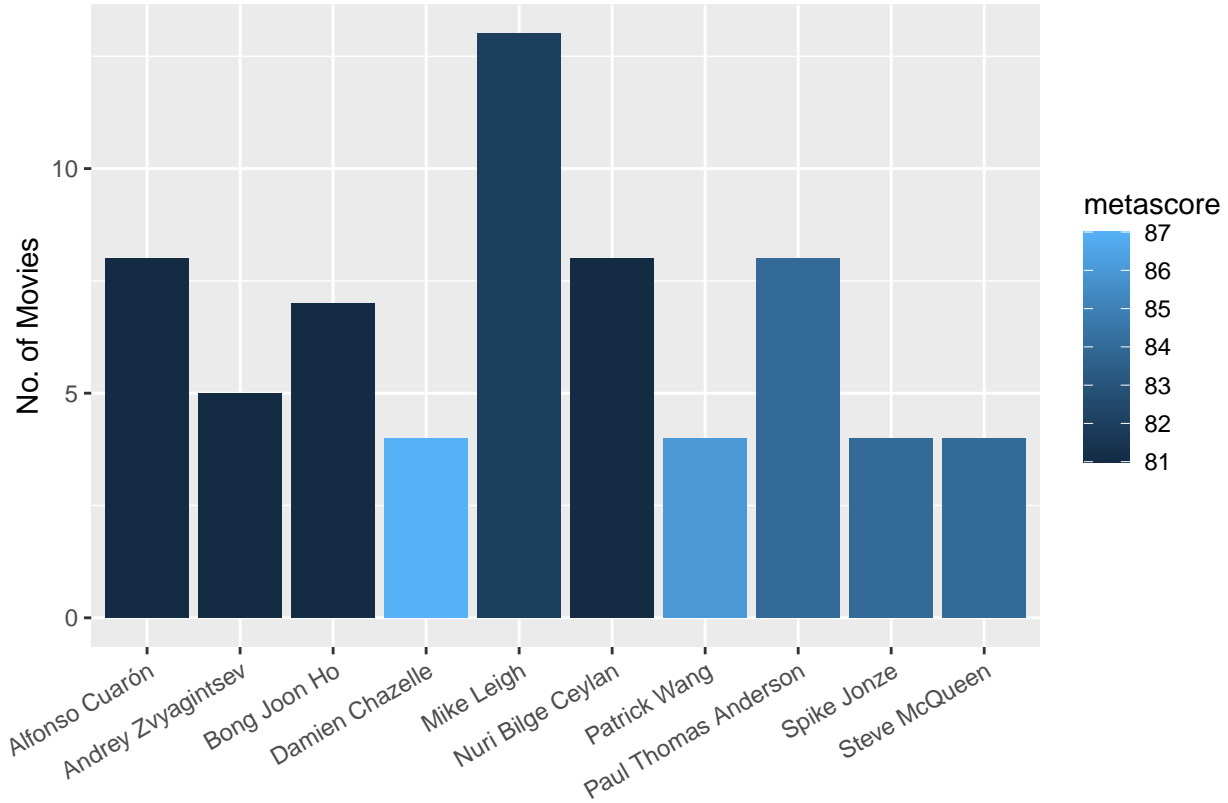
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0.1 Director Analysis

0.1.0.1 Most Successful Director Lets take a look at the some of most successful directors from our dataset. Now, there are limitless ways to measure success but for our test, we're only looking at people with at least 4 movies under their belt and a Metascore upwards of 80. And conveniently, we get only 10 names.

Director	Total Movies	Metascore
Damien Chazelle	4	87
Patrick Wang	4	86
Paul Thomas Anderson	8	84
Spike Jonze	4	84
Steve McQueen	4	84
Mike Leigh	13	82
Alfonso Cuarón	8	81
Nuri Bilge Ceylan	8	81
Bong Joon Ho	7	81
Andrey Zvyagintsev	5	81

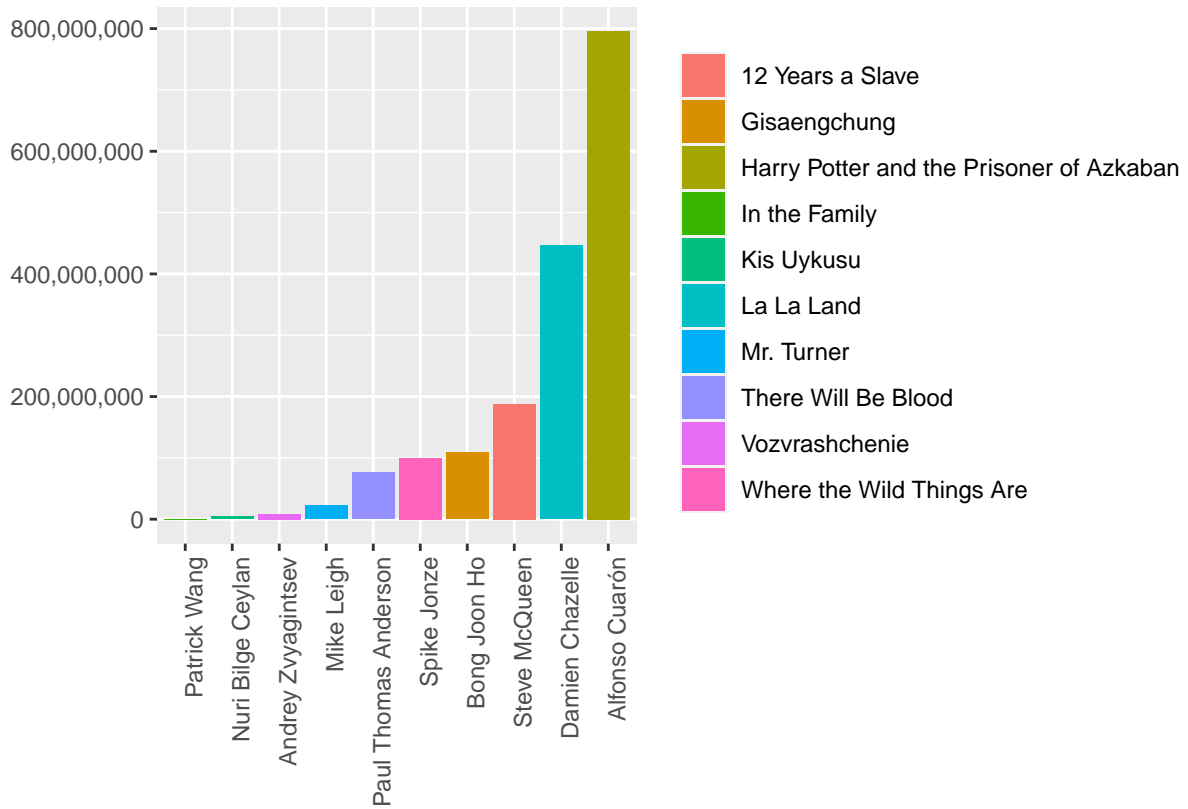
We get some interesting results, as on one hand there is Mike Leigh with as much as 13 movies but a lower average metascore. On the other hand, there are directors like Damien Chazelle and Patrick wang with 4 movies each and an average metascore of 87 and 86 respectively.



0.1.0.2 Top Grossing Movie In this section, we'll look at the top grossing movie of the most successful directors that we established from Table @ref(tab:dir_tab).

Director	Highest Grossing Movie	Total Revenue
Alfonso Cuarón	Harry Potter and the Prisoner of Azkaban	\$796,093,802
Damien Chazelle	La La Land	\$446,092,357
Steve McQueen	12 Years a Slave	\$187,733,202
Bong Joon Ho	Gisaengchung	\$109,012,467
Spike Jonze	Where the Wild Things Are	\$100,086,793
Paul Thomas Anderson	There Will Be Blood	\$76,181,545
Mike Leigh	Mr. Turner	\$22,179,785
Andrey Zvyagintsev	Vozvrashchenie	\$8,482,993
Nuri Bilge Ceylan	Kis Uykusu	\$4,018,705
Patrick Wang	In the Family	\$101,934

It can be observed that the *Alfonso Cuarón* is the director of the top grossing movie *Harry Potter and the Prisoner of Azkaban* which made \$796,093,802 worldwide. Followed by, *Damien Chazelle*, the director of *La La Land* grossing \$446,092,35. Suprisingly, *Patrick Wang*, with an average metascore of 86 and a total of 4 movies made the least at just \$101,934.



0.2 Movie Length and Language Analysis

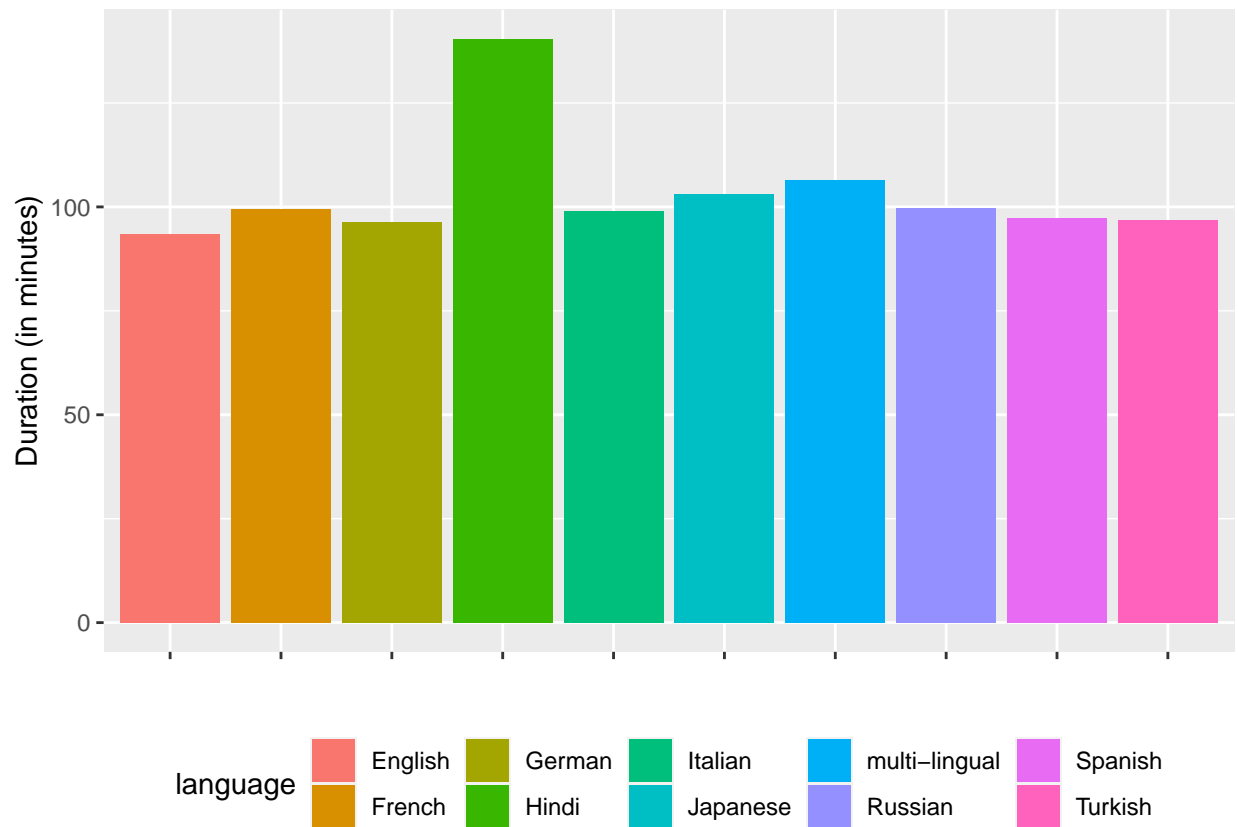
Let's look at some of the common movie languages.

Language	Number of Movies
English	34519
multi-lingual	15188
French	3777
Spanish	2640
Japanese	2605
Italian	2565
Hindi	1930
German	1702
Russian	1235
Turkish	1229

From the above table, it is quite clear that most movies are released in either only *English* or in *multi-lingual* format.

Language	Avg. Movie Duration
English	93.50190
French	99.38734
German	96.43831
Hindi	140.40466
Italian	98.94191
Japanese	102.96161
multi-lingual	106.46787
Russian	99.78219
Spanish	97.35833
Turkish	96.79170

0.2.0.1 Is there a pattern in Movie length for various languages?



From the plot above, we can infer that *Hindi* movies are usually much longer than other languages clocking at an average runtime of 140 minutes. While, *English* movies are usually the shortest at just 93 minutes.