

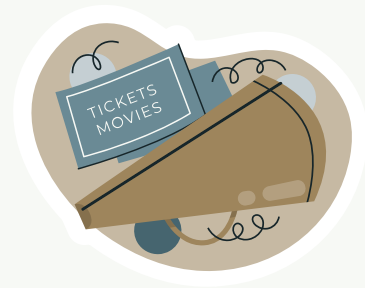


Oscar analysis

4ST626 - Exploratory Data Analysis



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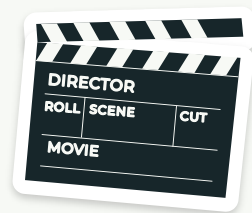
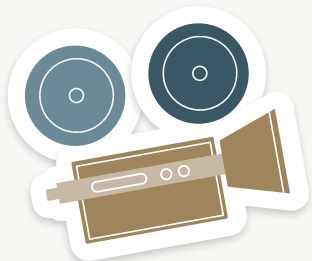
Dataset
Movies

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About the data

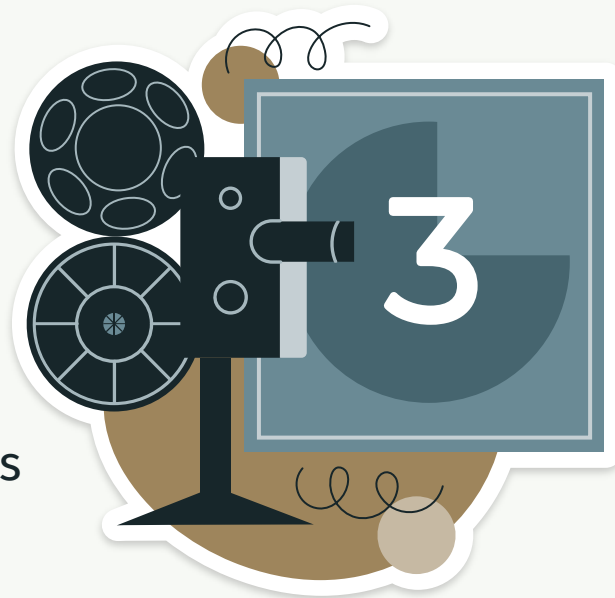


Dataset: Movies

- 7 668 rows, 15 columns
- movie characteristics
- name, rating, genre, year, budget...

Dataset: Oscars

- 9 964 rows, 6 columns
- data about oscar nominations and winners
- year, award, name, movie, winner...



Data filtering

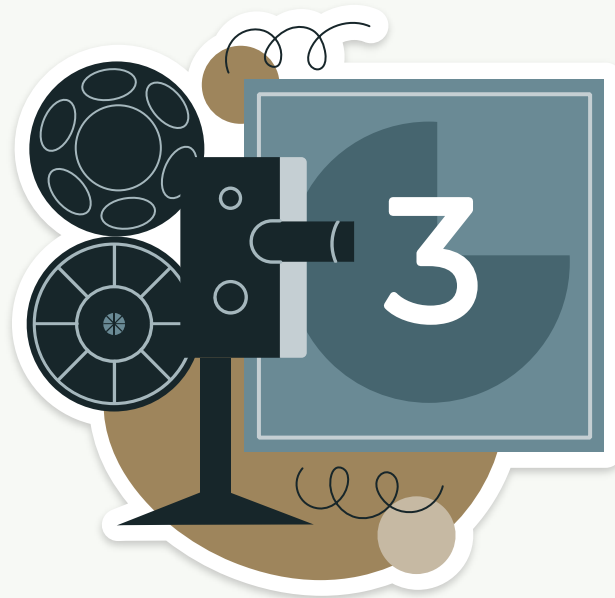
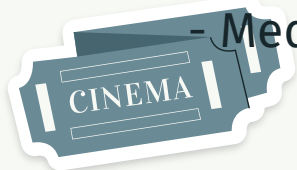


Dataset: Movies

- Listwise deletion of missing values from columns: released country, released day of week, writer, rating, star, country, company

Dataset: Oscars

- Movies after 1980 (incl.)
- Column „Award“ does not contain words:
 - Award,
 - Memorial, or
 - Medal



Missing values

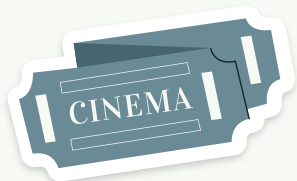
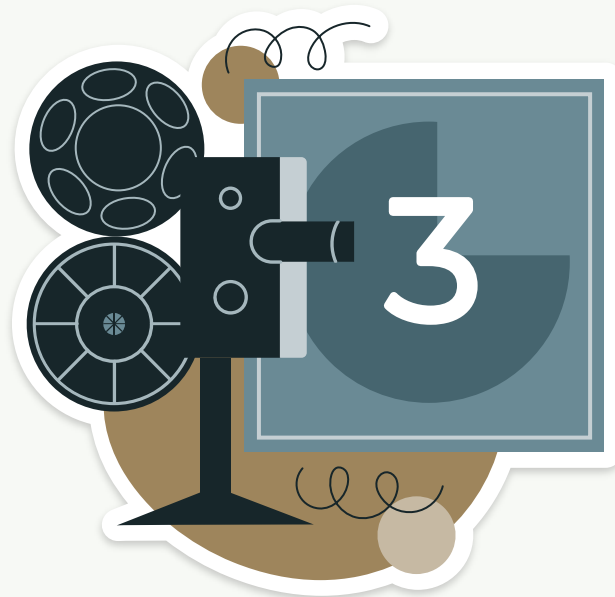


Dataset: Movies

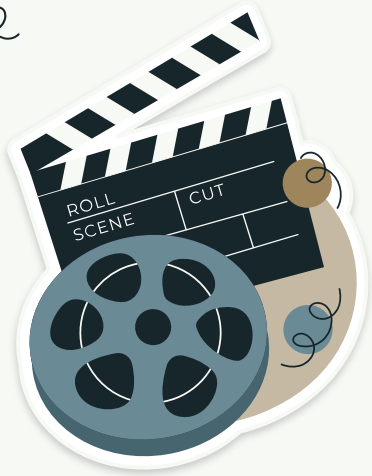
- Empty strings across various columns -> NA
- Missing continuous values -> Median
- Inconsistent date (February 2018, 1997...)

Dataset: Oscars

- Nominees (NA -> 0)
- Film (""" -> removed)

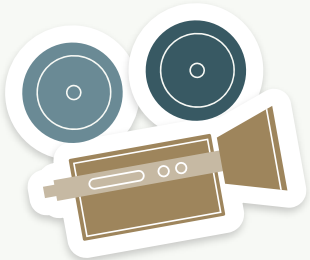


Movie join

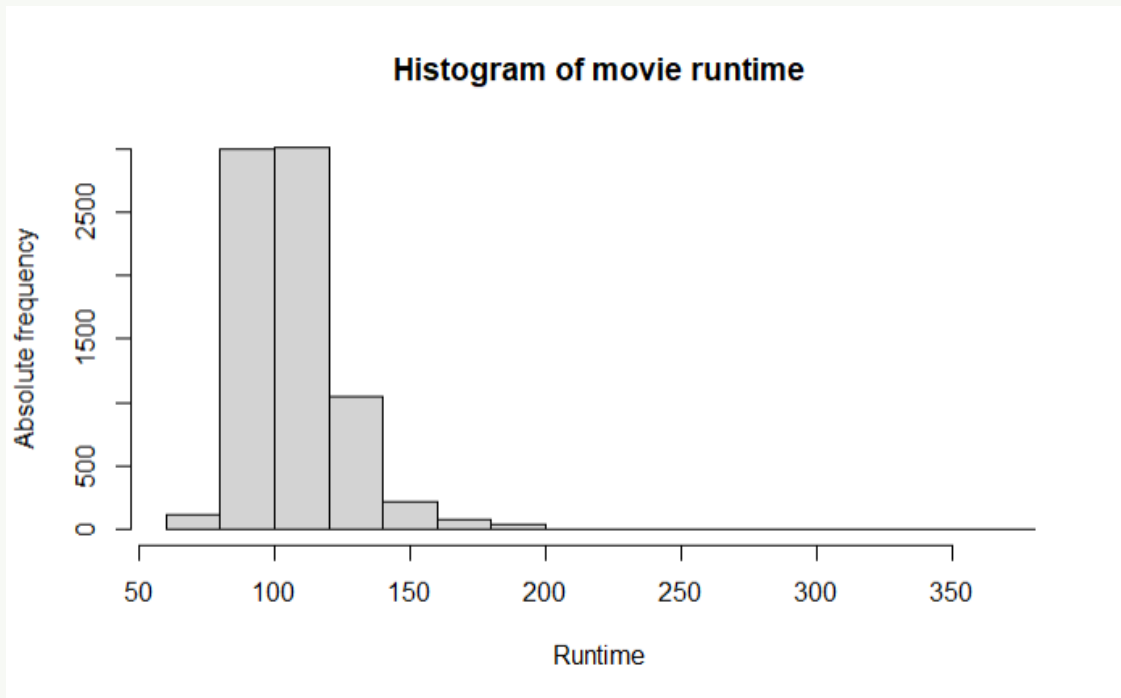


Datasets were joined using columns
Name (Movie name)
and
Year (Release year).

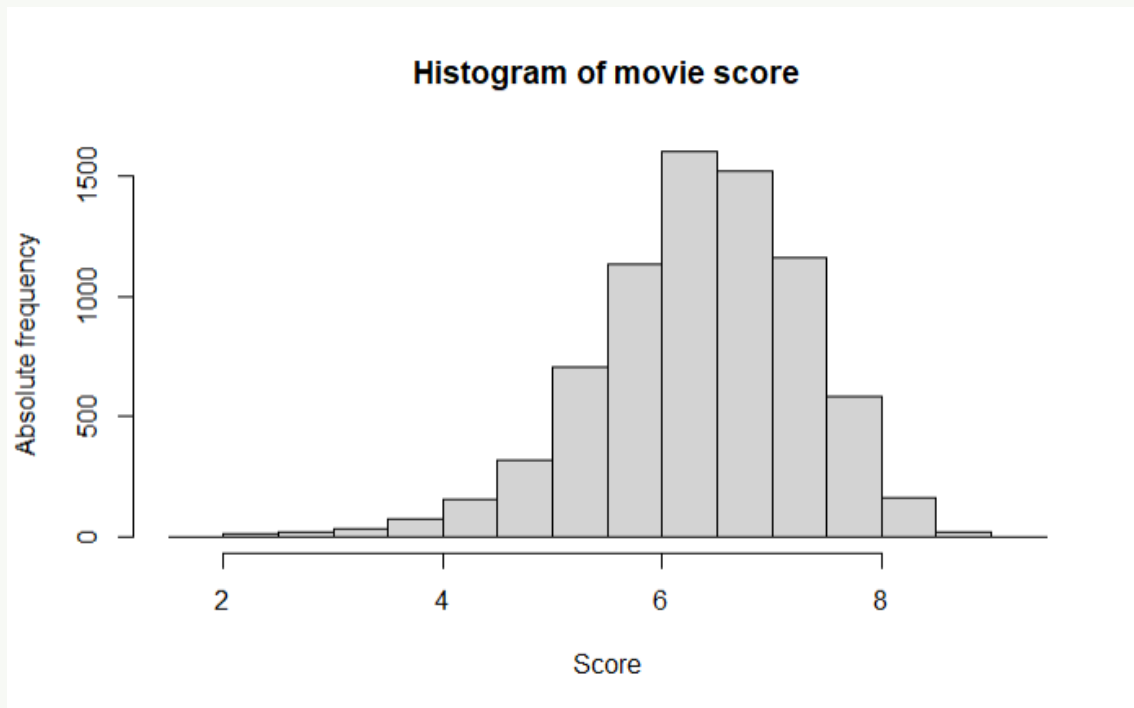
2 008 movies were joined together.



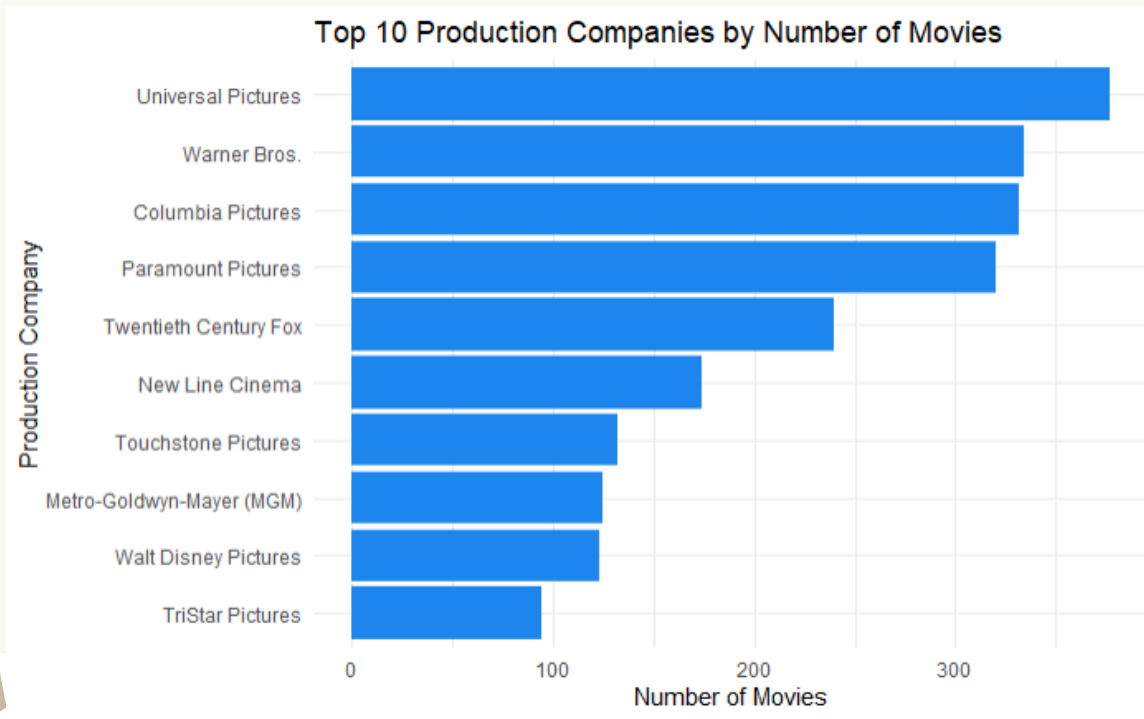
Movie runtime histogram



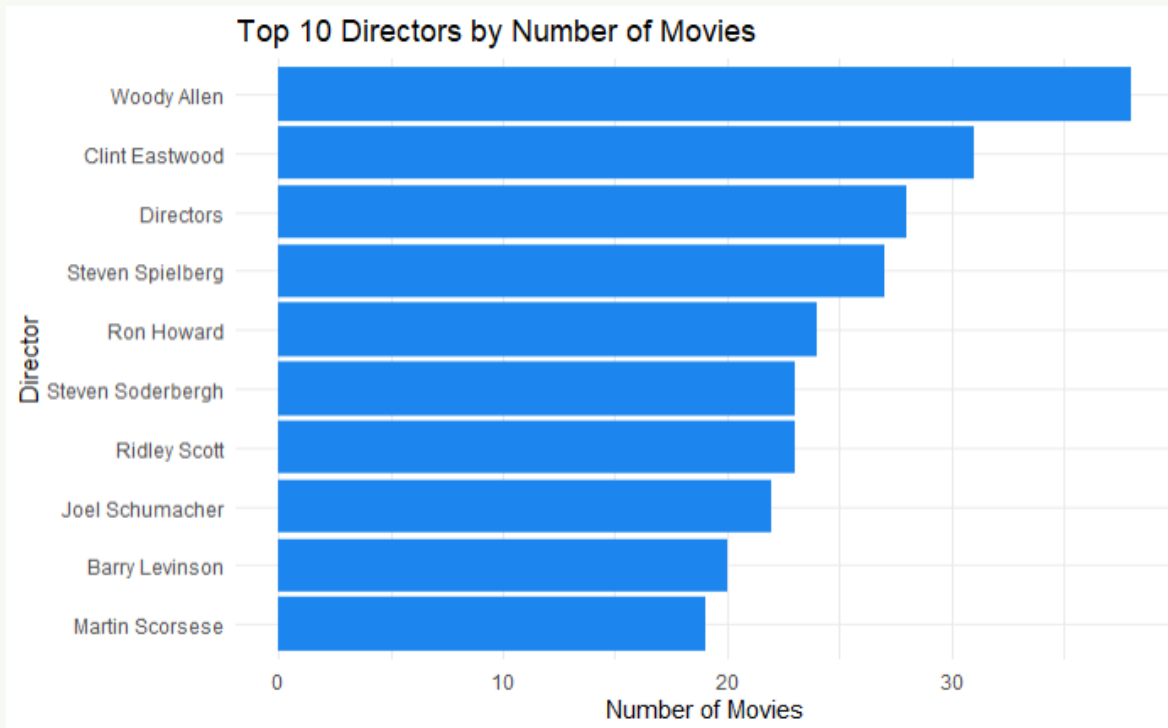
Movie score histogram



Production companies in movies



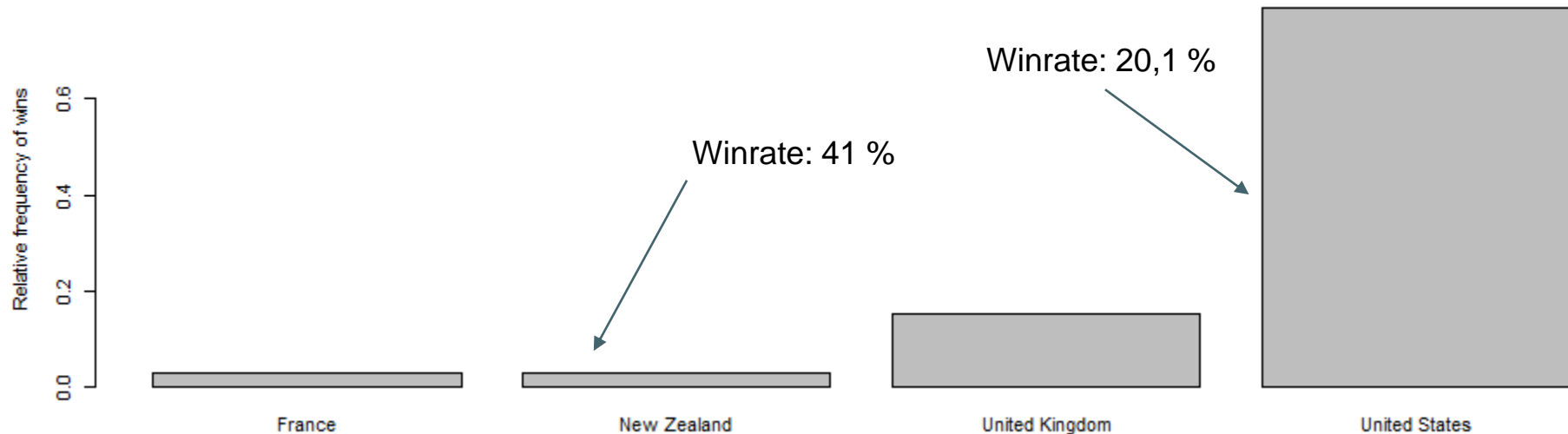
Directors in movies



Best picture by country



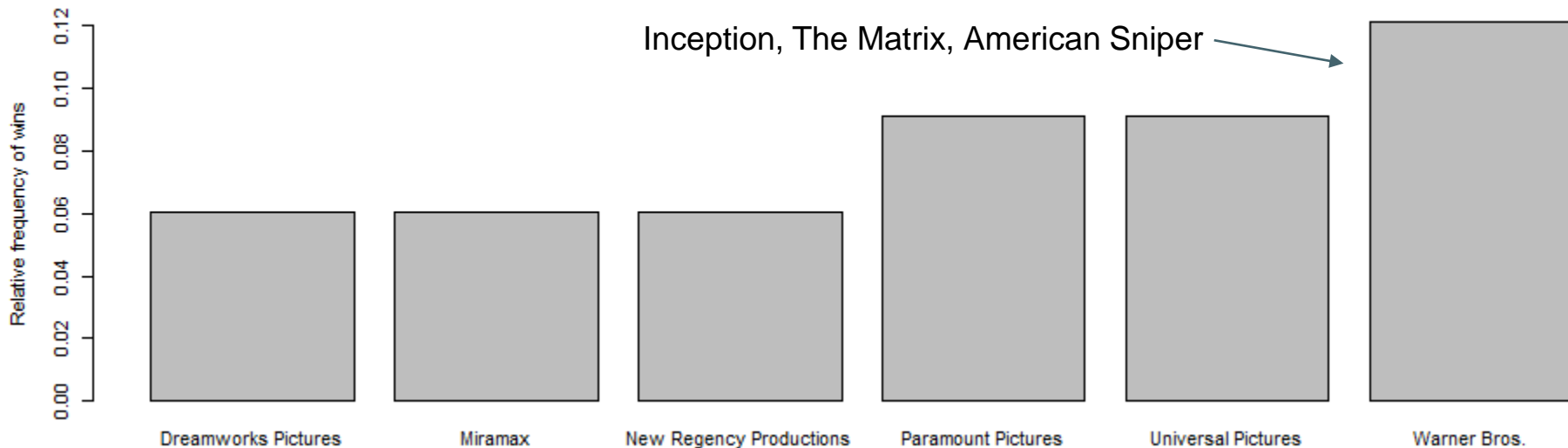
Top 6 countries by relative frequency of oscar wins for Best Picture



Best picture by company



Top 6 production companies by relative frequency of oscar wins for Best Picture



Directing by directors



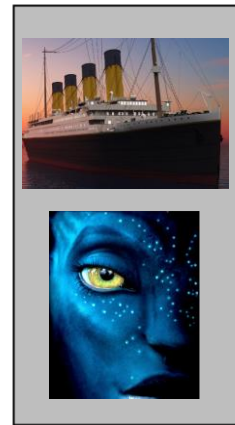
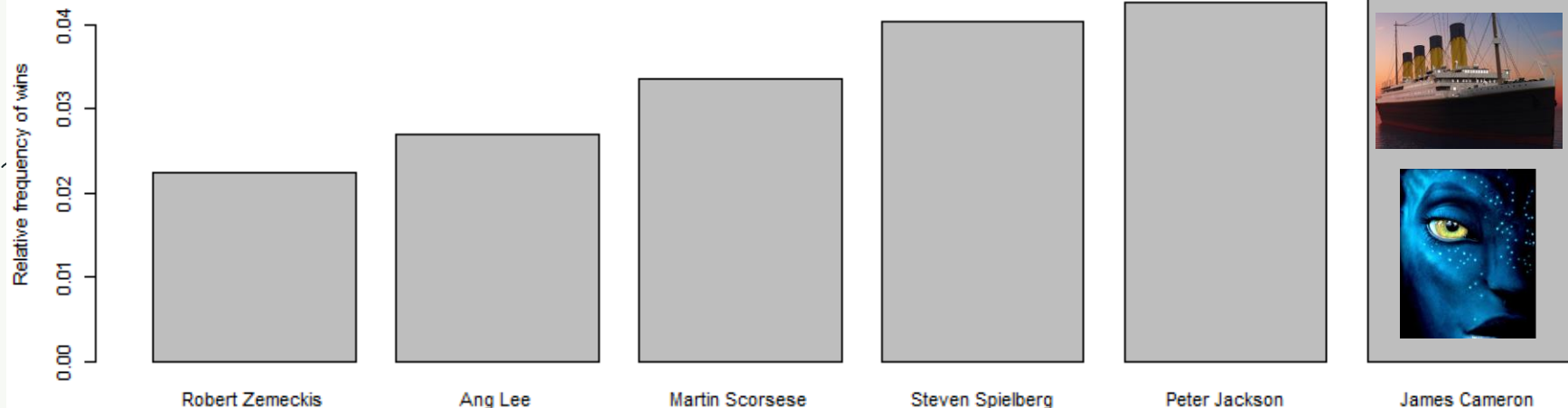
Top 6 directors by relative frequency of oscar wins for Directing



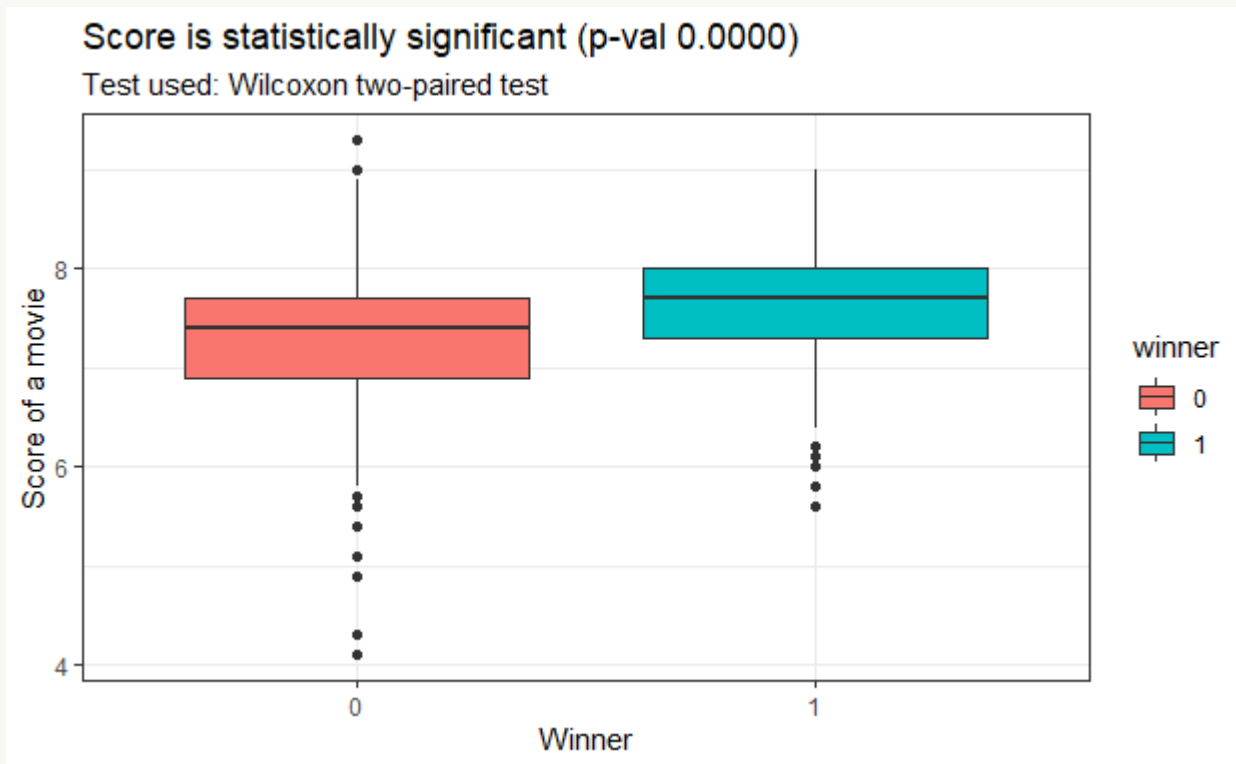
All categories by directors



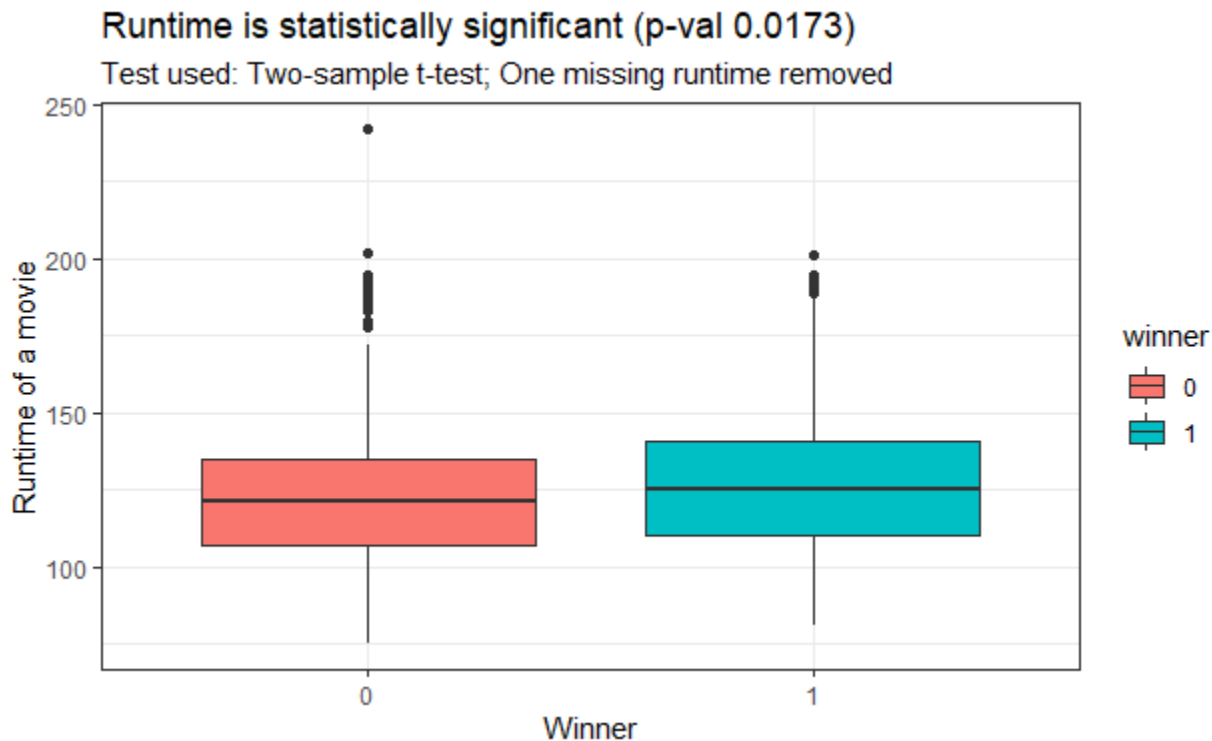
Top 6 directors by relative frequency of oscar wins for All



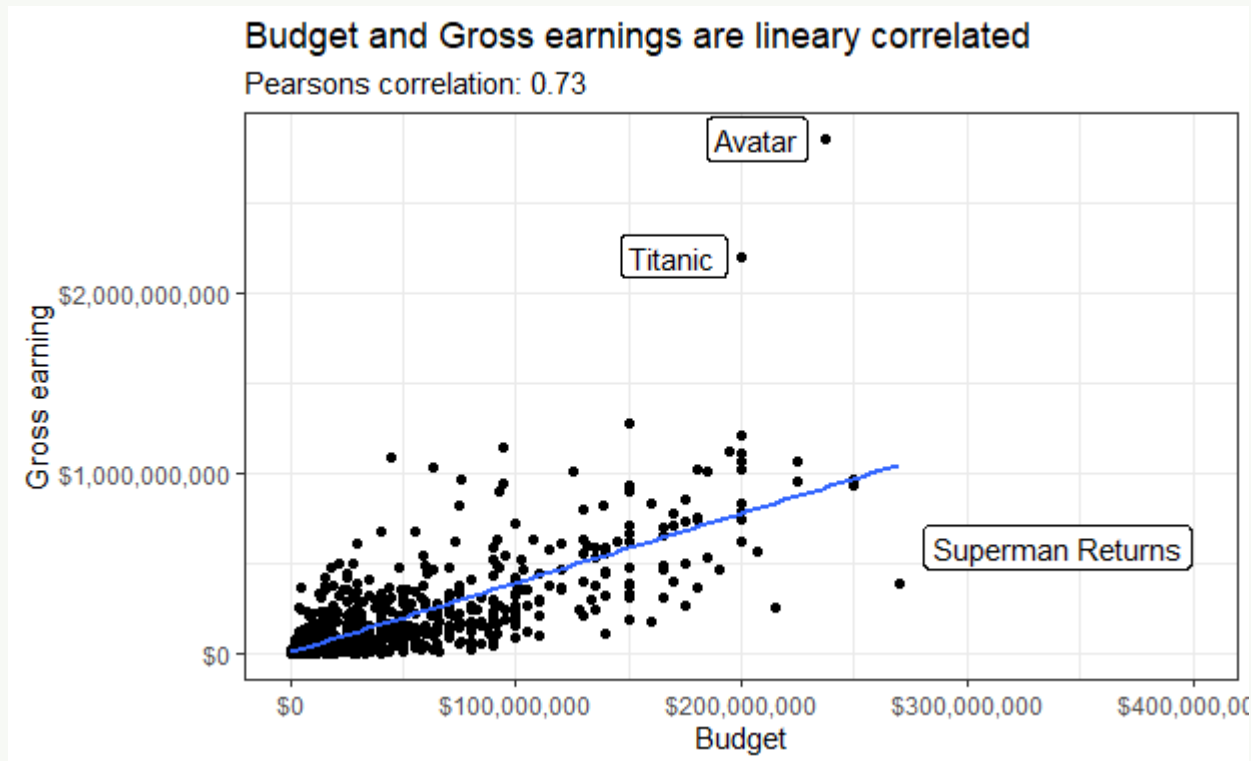
Movie score by result



Movie runtime by result



Budget and gross earnings



Four main conclusions



Country



United states



Directors



James Cameron



Movie company



Warner Bros



Budget vs. Gross



High positive correlation





Thanks!



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