

Information Visualization

Project Proposal and Dataset



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01

DOMAIN

Domain

High level description

Our goal in this project is to study the impact of the political and social situation in the United States over the Oscars winners and nominees, from 1927 to 2015, by relating characteristics of the actors (gender, ethnicity) and movies (movie genre) with social and political variables such as the political party of the president, if there was a military conflict at the time, racial conflicts, and homicide rate.

02

DATASET

Dataset

<https://www.kaggle.com/theacademy/academy-awards#database.csv> - this dataset contains Academy Award winners and nominees since 1927 to 2015.

https://www.kaggle.com/harshitagpt/us-presidents/#us_presidents.csv – this dataset contains US presidents since 1789 and their political parties.

<https://www.kaggle.com/grouplens/movielens-20m-dataset#movie.csv> – this dataset contains movie names and their genres.

Dataset

<https://data.world/crowdfunder/academy-awards-demographics/workspace/file?filename=Oscars-demographics-DFE.csv> – this dataset contains the demographics of all Oscar winners, including their ethnicity

<http://labs.time.com/story/oscars-diversity/?fbclid=IwAR3ogD4C4yiDdetf2WMTnPhcQsQkF52Zy4l7BR3a7-vc066vRuGkgYpe-Y0> – this web page contains a chart showing the ethnicity (white or non-white) of Oscars winners and nominees for the awards of Best Actor, Best Actress, Best Supporting Actor and Best Supporting Actress, since 1928.

Dataset

https://en.wikipedia.org/wiki/List_of_countries_by_intentional_homicide_rate_by_decade – this web page contains the homicide rate in the US per year

https://en.wikipedia.org/wiki/List_of_wars_involving_the_United_States – this web page contains a list of wars involving the US and corresponding years

https://www.history.com/topics/black-history/black-history-milestones?fbclid=IwAR3YODpITj_NPr-fw_BJIE2lkKTEpJgMnfM8Wt2jF5NRpYLA6emX1vy2NGM – this web page contains a list of black history milestones per year.

03

EXAMPLE QUESTIONS

Questions

Question 1

How are military conflicts involving the USA at the time reflected in the movie genre of the Oscars winner for Best Picture?

Question 2

How is the homicide rate reflected in the movie genre of the Best Picture winner?

Question 3

How does the ethnicity of the Oscars winners and nominees change over time?

Questions

Question 4

How does the ethnicity of the Oscars winners and nominees change with the party in power?

Question 5

How does the ethnicity of the Oscars winners and nominees change with racial conflicts?

Question 6

How does the gender ratio of the Oscars nominees for Best Director change over time?

04

DATA SAMPLE

Data Sample

(from “database.csv”)

year; ceremony; Award; Winner; Name; Film

1927/1928; 1; Actor; ; Richard Barthelmes; The Moose

(from “us_presidents.csv”)

S.No.; start; end; president; prior; party; vice

1; April 30,1789; March 4,1797; George Washington; Commander-in-Chief of the
Continental Army (1775-1783); Nonpartisan; John Adams

(from “movie.csv”)

movieid; title; genres;

1; Toy Story(1995); Adventure | Animation | Children | Comedy | Fantasy

(from “Oscars-demographics-DFE.csv”)

race_ethnicity; ...; person;

White; ...; Tommy Lee Jones;