



IMD0033 - Probabilidade Aula 10 - Análise Exploratória de Dados II

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Agenda

- Estudo de caso: analisando filmes
- Motivação: enviesamento de dados
- Gráfico de barra & personalização
- Gráficos de dispersão & personalização



Atualizar o repositório

git clone https://github.com/ivanovitchm/imd0033_2019_1

Ou

git pull





WEAPONS OF MATH DESTRUCTION



IOW BIG DATA INCREASES INCOUALITY

AND THREATENS DEMOCRACY

CATHY O'NEIL

O.NEIL

N S UF / N D I T J U B /



IMDB



Rotten Tomatoes



Fandango



Enviesamento de dados







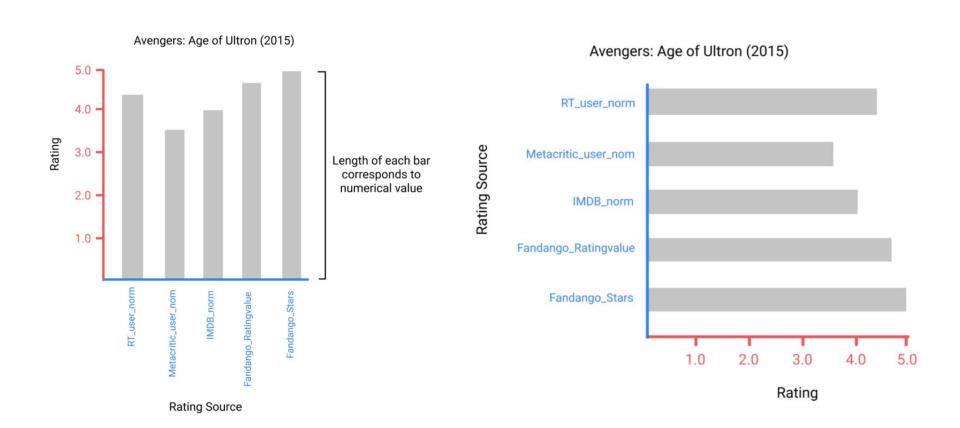
Conjunto de dados

	FILM	RT_user_norm	Metacritic_user_nom	IMDB_norm	Fandango_Ratingvalue	Fandango_Stars
0	Avengers: Age of Ultron (2015)	4.3	3.55	3.90	4.5	5.0
1	Cinderella (2015)	4.0	3.75	3.55	4.5	5.0
2	Ant-Man (2015)	4.5	4.05	3.90	4.5	5.0
3	Do You Believe? (2015)	4.2	2.35	2.70	4.5	5.0
4	Hot Tub Time Machine 2 (2015)	1.4	1.70	2.55	3.0	3.5

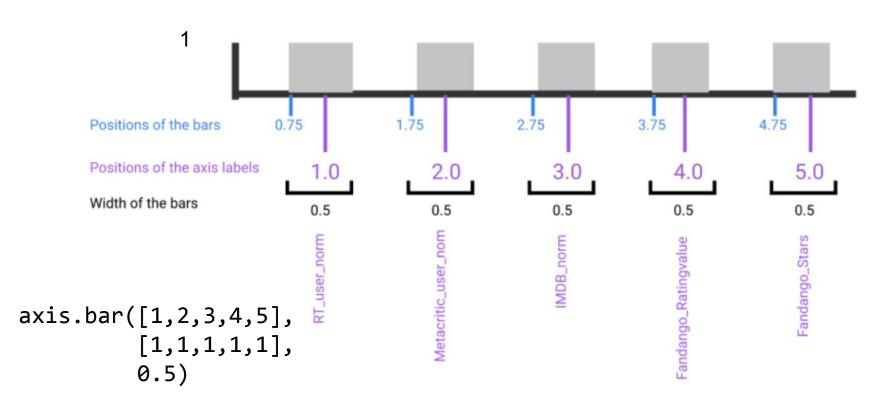
https://github.com/fivethirtyeight/data/tree/master/fandango



Gráfico de barra



Criando gráfico de barras





Criando gráfico de barras

```
barras
                                         3
                                         2
# [0.75, 1.75, 2.75, 3.75, 4.75]
bar positions = np.arange(5) + 0.75
num cols = ['RT user norm', 'Metacritic user nom',
            'IMDB norm', 'Fandango Ratingvalue',
            'Fandango Stars']
bar heights = norm reviews[num cols].iloc[0]
fig, ax = plt.subplots()
ax.bar(bar positions,bar heights,0.5)
```



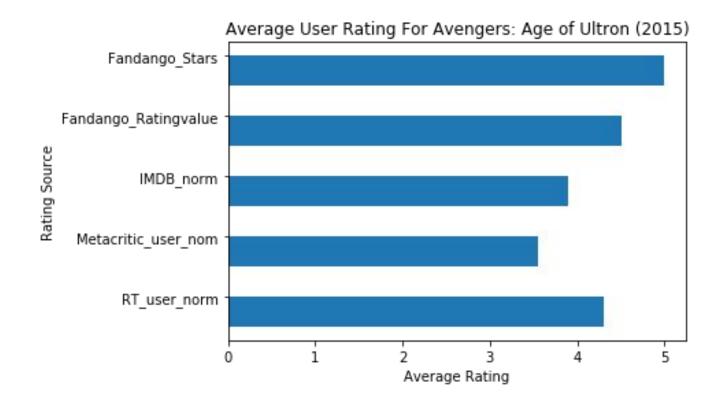
Configurando os eixos

```
5
    4
Average Rating
                                                 Rating Source
```

Average User Rating For Avengers: Age of Ultron (2015)

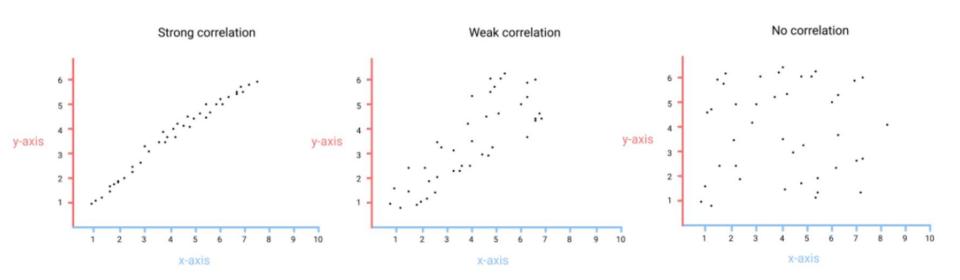
```
tick_positions = range(1,6)
ax.set_xticks(tick_positions)
num_cols = ['RT_user_norm', 'Metacritic_user_nom', 'IMDB_norm', 'Fandango_Ra
tingvalue', 'Fandango_Stars']
ax.set xticklabels(num cols)
ax.set xticklabels(num cols, rotation=90)
```

Barras horizontais



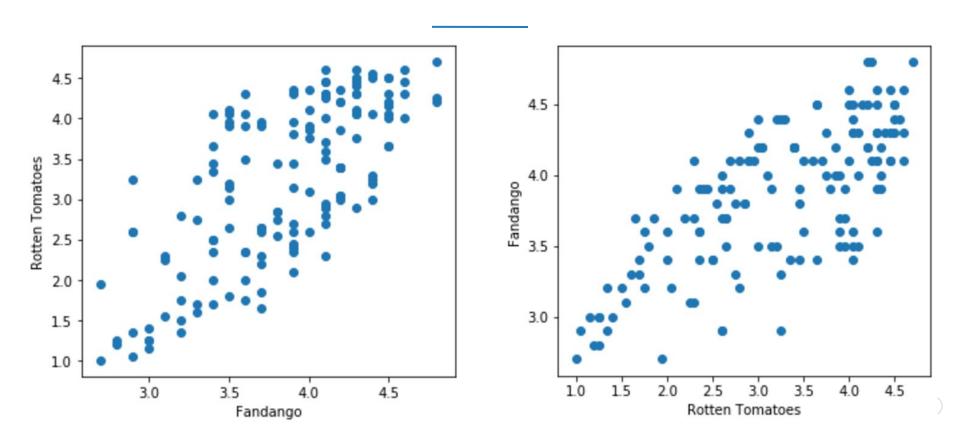


Gráficos de dispersão

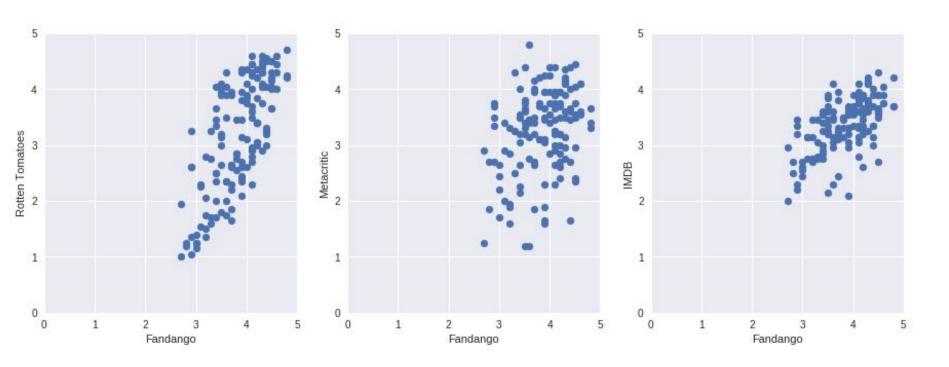




Trocando os eixos



O que podemos concluir desses gráficos?



Aula#10 - gráficos de barras e dispersão.ipynb

