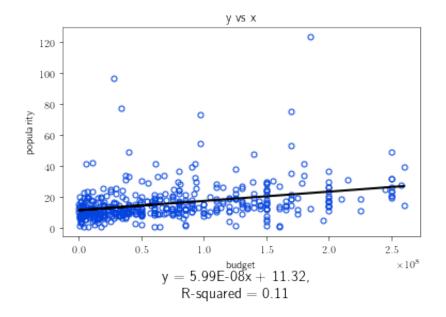
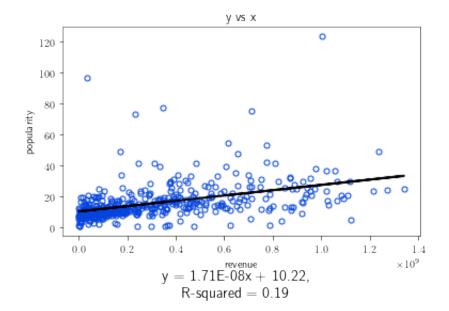
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```
In [37]: | from imdb import IMDb
          import pandas as pd
          from scipy import stats
          import numpy as np
          import matplotlib.pyplot as plt
          %matplotlib inline
          from plotting import master_plot
In [38]:
          path = '/Users/austinbenny/Documents/python/movie budget ratings/the-m
In [40]:
          df=pd.read_csv(path)
          df.replace([np.inf, -np.inf], np.nan)
          df.dropna(inplace=True)
          df = df[(df[['budget','revenue','popularity','vote average']] != 0).al
          z_scores=np.abs(stats.zscore(df[['budget','revenue','popularity','vote
          new df=df[(z scores < 3.0).all(axis=1)]</pre>
          df=new df
          df.columns.values
Out[40]: array(['adult', 'belongs_to_collection', 'budget', 'genres', 'homepag
          e',
                  'id', 'imdb id', 'original language', 'original title', 'overv
          iew',
                  'popularity', 'poster_path', 'production_companies',
                  'production_countries', 'release_date', 'revenue', 'runtime', 'spoken_languages', 'status', 'tagline', 'title', 'video',
```

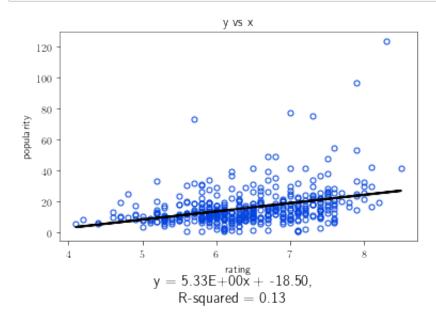
'vote_average', 'vote_count'], dtype=object)

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What this means?

the tmdb popularity values for the cleared up df arent really functions of the rating, revenue, or budget

In []: