

```
est only valid for n>=20 ... continuing anyway, n=16
warnings.warn("kurtosistest only valid for n>=20 ... continuing ")
```

```
In [66]: #Test for linearity
linear_rainbow(results_genre_count)
```

```
Out[66]: (34.74647424852565, 0.00017983284314269322)
```

Closed SQL Connection

```
In [67]: conn.close()
```

Conclusions

The conducted analysis leads to three recommendations for movie production:

- **Focus on Action/Adventure/Sci-Fi.** This seems to be all the rage at the box office right now, as our analysis indicated this was the most profitable genre and involves the most profitable actors/directors.
- **Certain Actors and Directors are Reliable Money-Makers.** Actors like Chris Evans and Scarlett Johansson, as well as directors like the Russo Brothers and Christopher Nolan, seem to frequently strike gold at the box office. It would only make sense to seek them out for projects.
- **Don't Focus So Much On Budget and Aim for International Release.** While you may think that a higher production budget inevitably results in higher profits, this has been demonstrated to not necessarily be the case, as there have been plenty of flops over the years. Regardless of the budget, the worldwide gross will dictate the amount of profit the movie ultimately generates.