VIDEO GAME ANALYSIS

Mina J

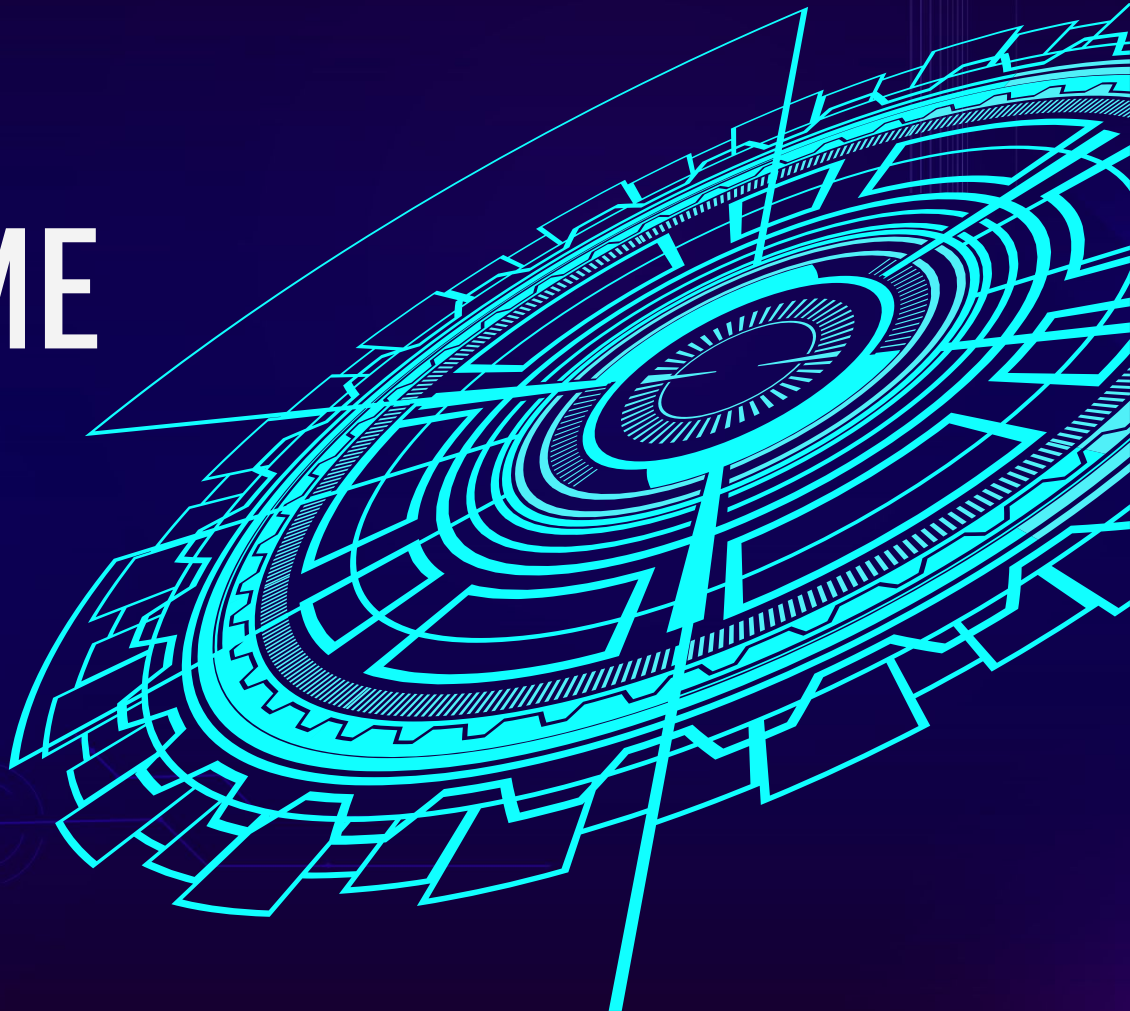
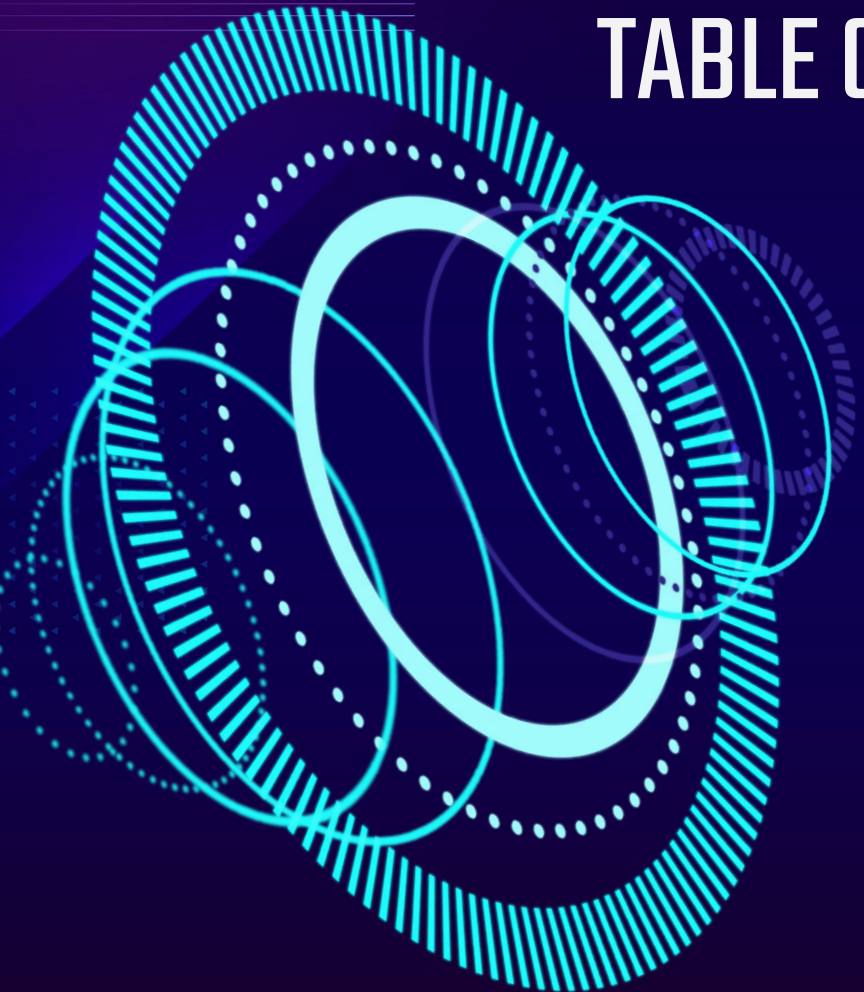


TABLE OF CONTENTS



MY DATA

Obtained by
RUSH KIRUBI from MetaCritic
and VGCHARTZ using Beautiful Soup


SONY
4K HDR
1TB
PS4 Pro
Jet Black


COUNTER STRIKE
SOURCE


Pokémon
MASTERS

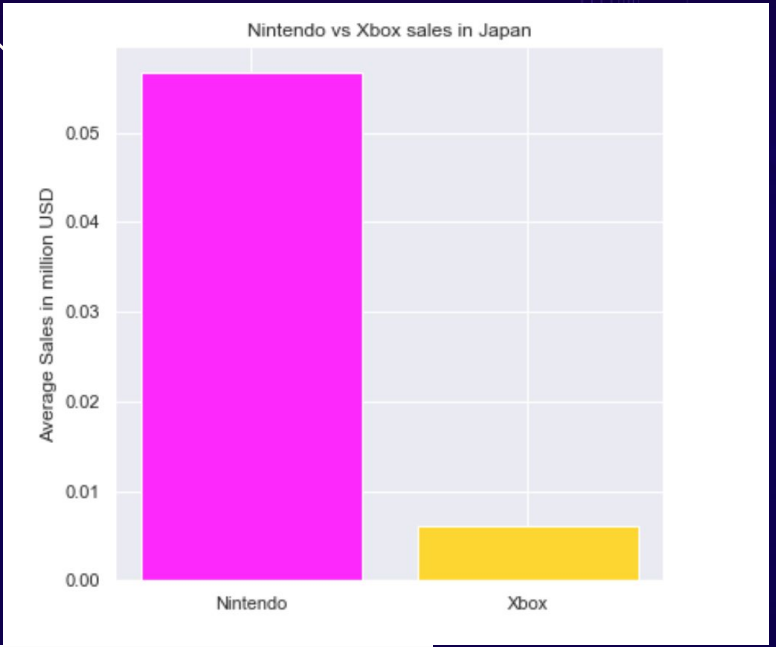

Nintendo
ENTERTAINMENT SYSTEM
Nintendo
ENTERTAINMENT SYSTEM™


TETRIS®

QUESTION 1:

In Japan does Nintendo sell better than Xbox?

h0 ==> no difference in the selling number
hA ==> there is a difference (Nintendo sells better)
Alpha = 0.05
Student's T-test




```
nin = df[df['PlatformCategory'] == 4]
xbox = df[df['PlatformCategory'] == 2]
p_value = stats.ttest_ind(xbox['JP'], nin['JP'])
p_value
```

```
Ttest_indResult(statistic=-8.07246090386077, pvalue=9.218897619927618e-16)
```

QUESTION 1:

Are shooter Games in USA sell better than sport games?

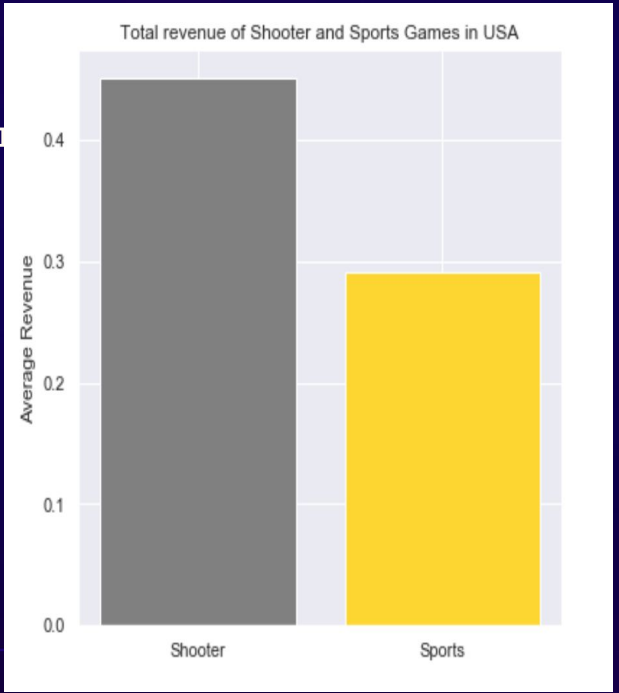
Alpha = 0.05
Welch's T-test

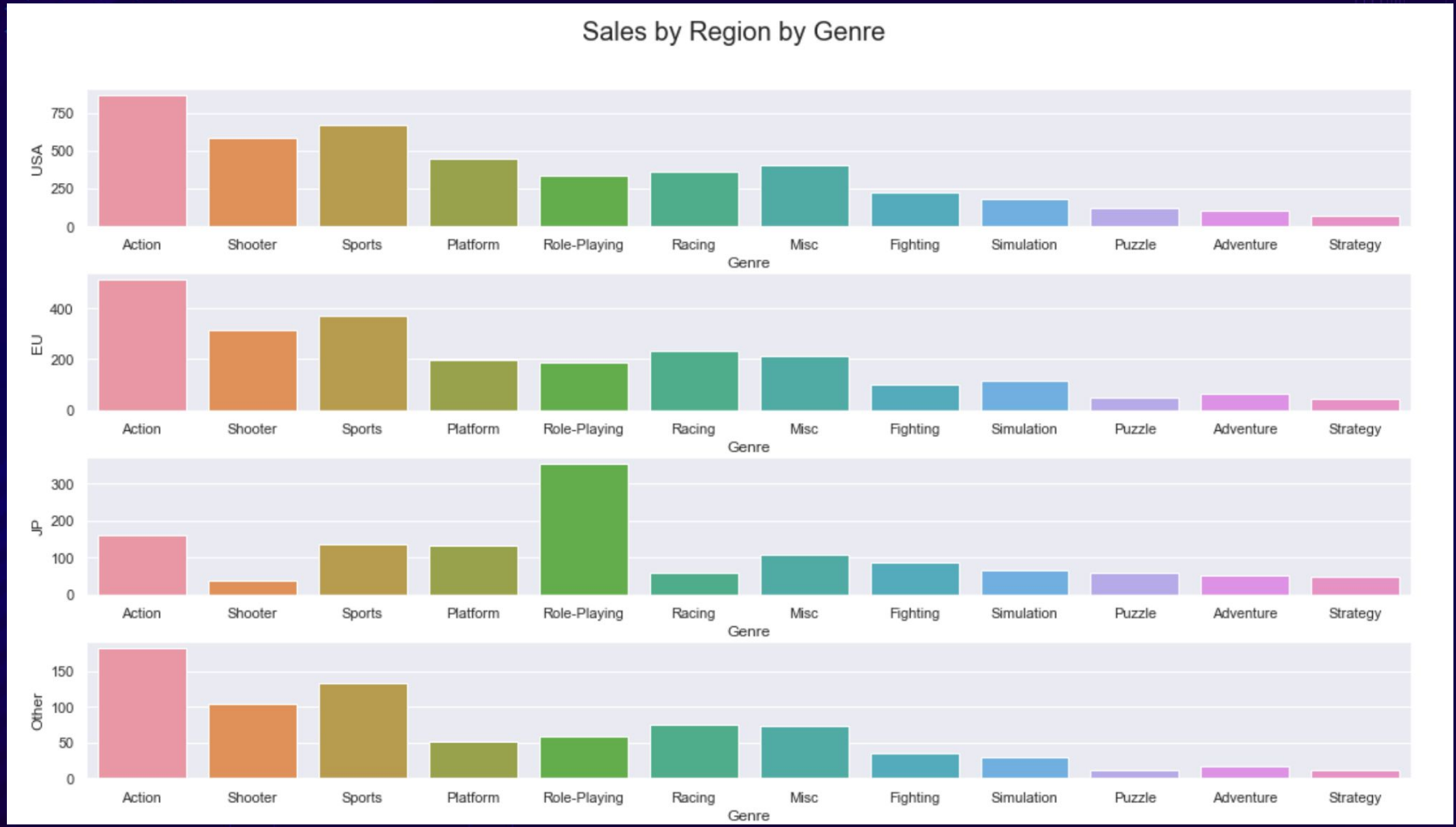
```
# calculate t-score and the degrees of freedom for the two samples
t = library.welch_t(shooter, sports)
df = library.welch_df(shooter, sports)
print(t,df)
```

```
4.003541069796452 2370.775843779252
```

```
# calculate p_value
library.p_value(shooter, sports)
```

```
3.2159536640041786e-05
```




Sales by Region by Genre
USA
750
500
250
0
Action
Shooter
Sports
Platform
Role-Playing
Racing
Misc
Fighting
Simulation
Puzzle
Adventure
Strategy
Genre
EU
400
200
0
Action
Shooter
Sports
Platform
Role-Playing
Racing
Misc
Fighting
Simulation
Puzzle
Adventure
Strategy
Genre
JP
300
200
100
0
Action
Shooter
Sports
Platform
Role-Playing
Racing
Misc
Fighting
Simulation
Puzzle
Adventure
Strategy
Genre
Other
150
100
50
0
Action
Shooter
Sports
Platform
Role-Playing
Racing
Misc
Fighting
Simulation
Puzzle
Adventure
Strategy
Genre

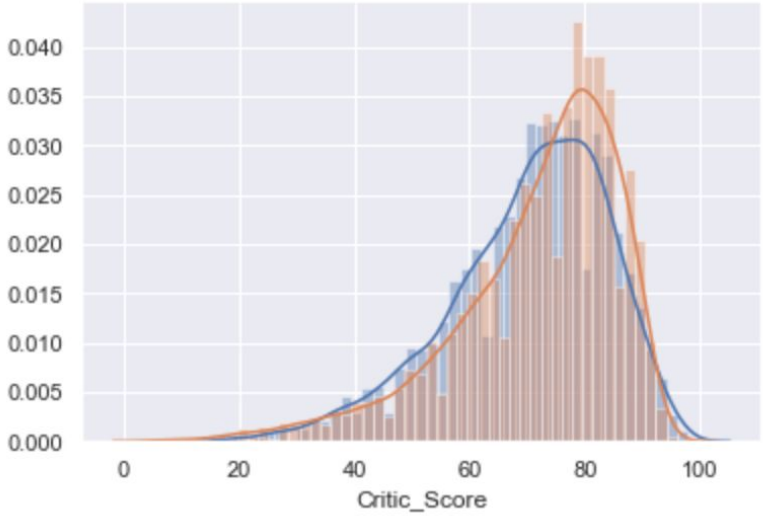
QUESTION 3:

Do Users and Critics give equal scores?

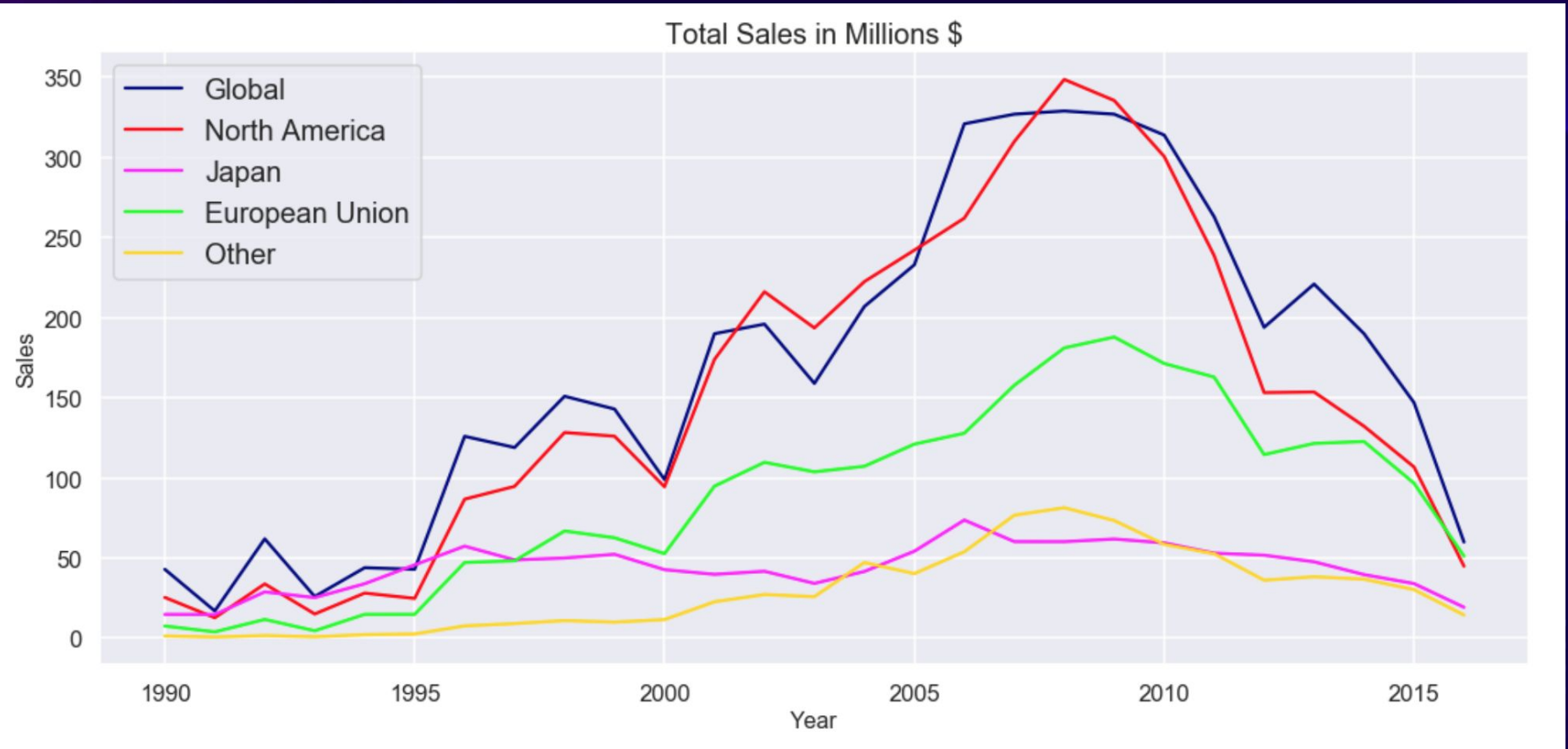
Alpha = 0.05
Sampling
Student's T-test 2x

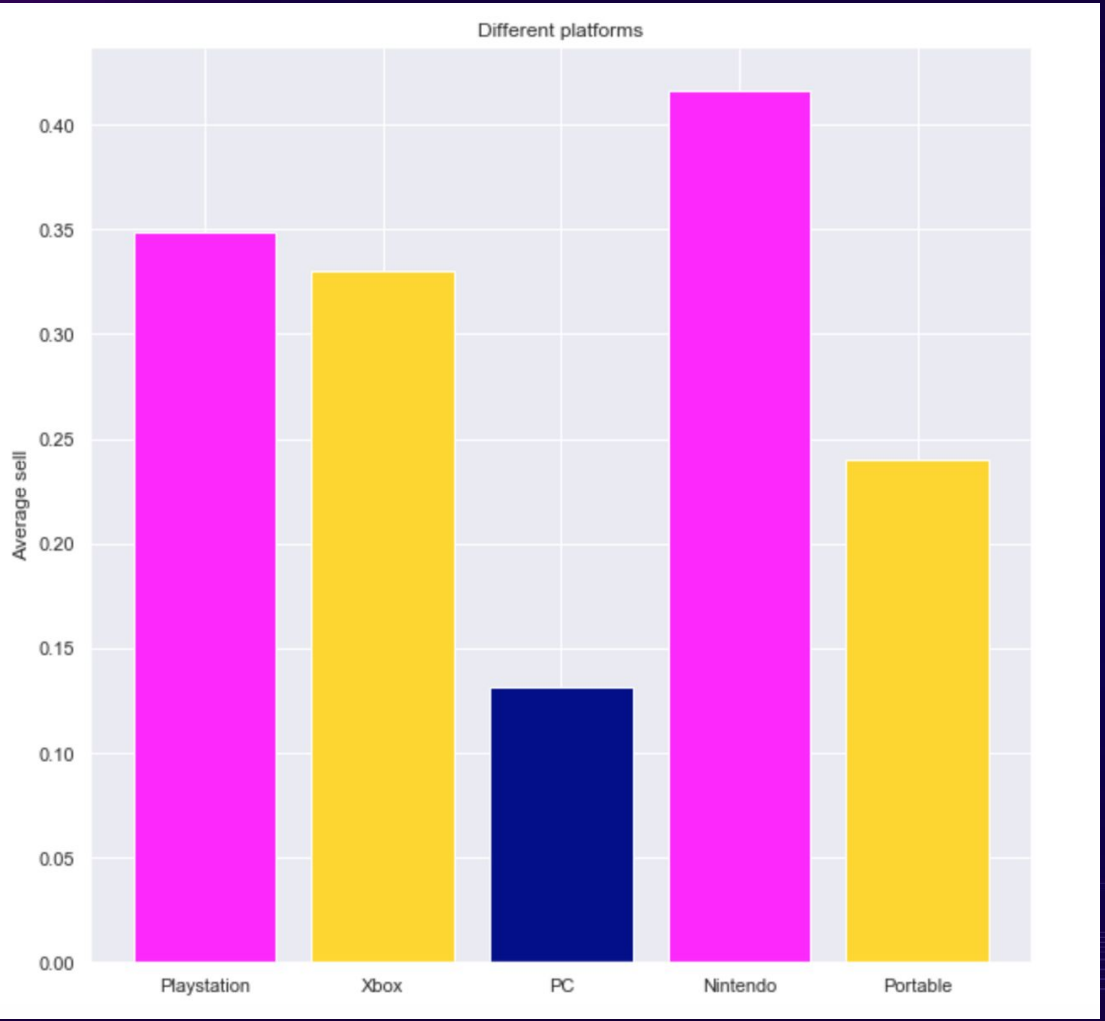
p-value = 2.923141954160524e-06

```
sns.distplot(df_3.Critic_Score);
sns.distplot(np.array(df_3.User_Score)/0.10);
```



Thank you for watching


Total Sales in Millions $
Global
North America
Japan
European Union
Other
Sales
350
300
250
200
150
100
50
0
1990
1995
2000
2005
2010
2015
Year



We would need more data on PC

PC games still can be downloaded, or sales are mostly on Steam, or on other platforms