

VIDEO GAME ANALYSIS

Mina J

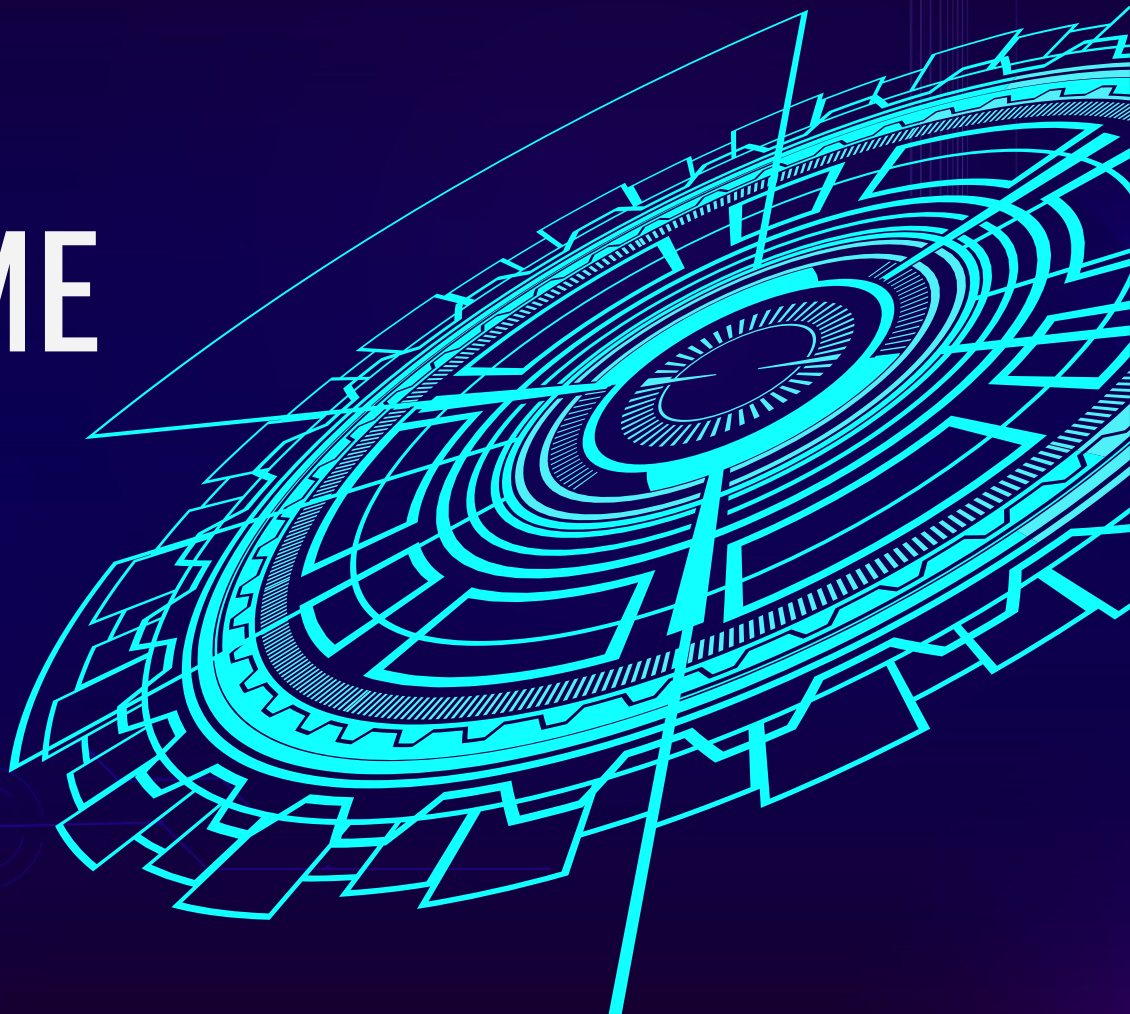




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In Japan does Nintendo sell better than Xbox?

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Are shooter Games in USA sell better than sport games?

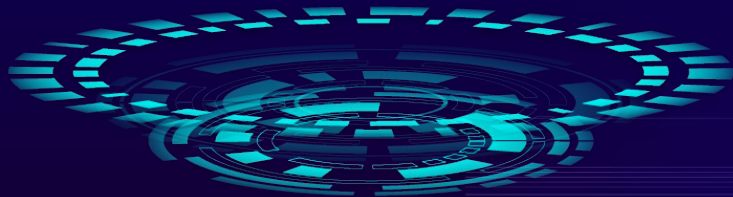
03

Do Users and Critics give similar scores?



MY DATA

Obtained by
RUSH KIRUBI from MetaCritic
and VGCHARTZ using Beautiful Soup





QUESTION 1:

In Japan does Nintendo sell better than Xbox?

$H_0 \Rightarrow$ no difference in the selling number

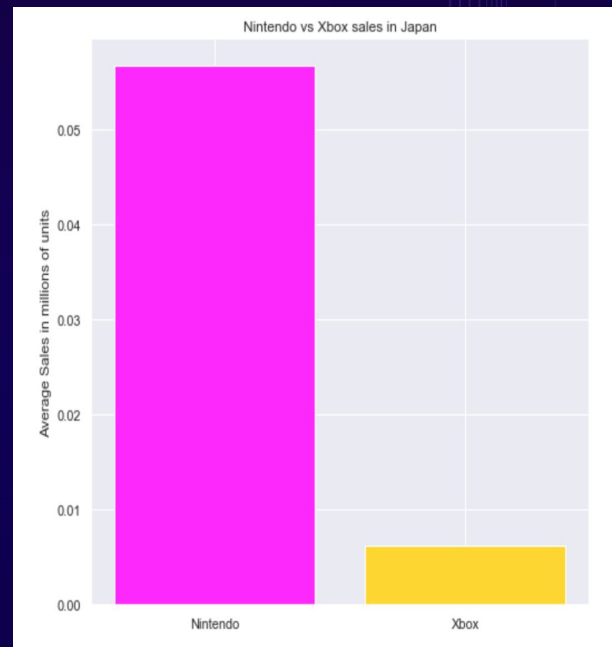
$H_A \Rightarrow$ there is a difference (Nintendo sells better)

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

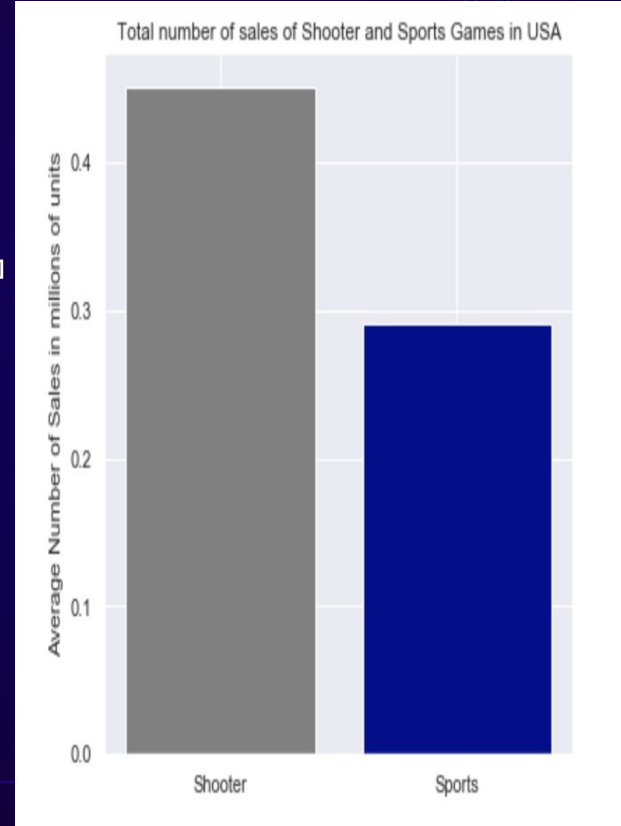
Welch's T-test

```
# 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)
```

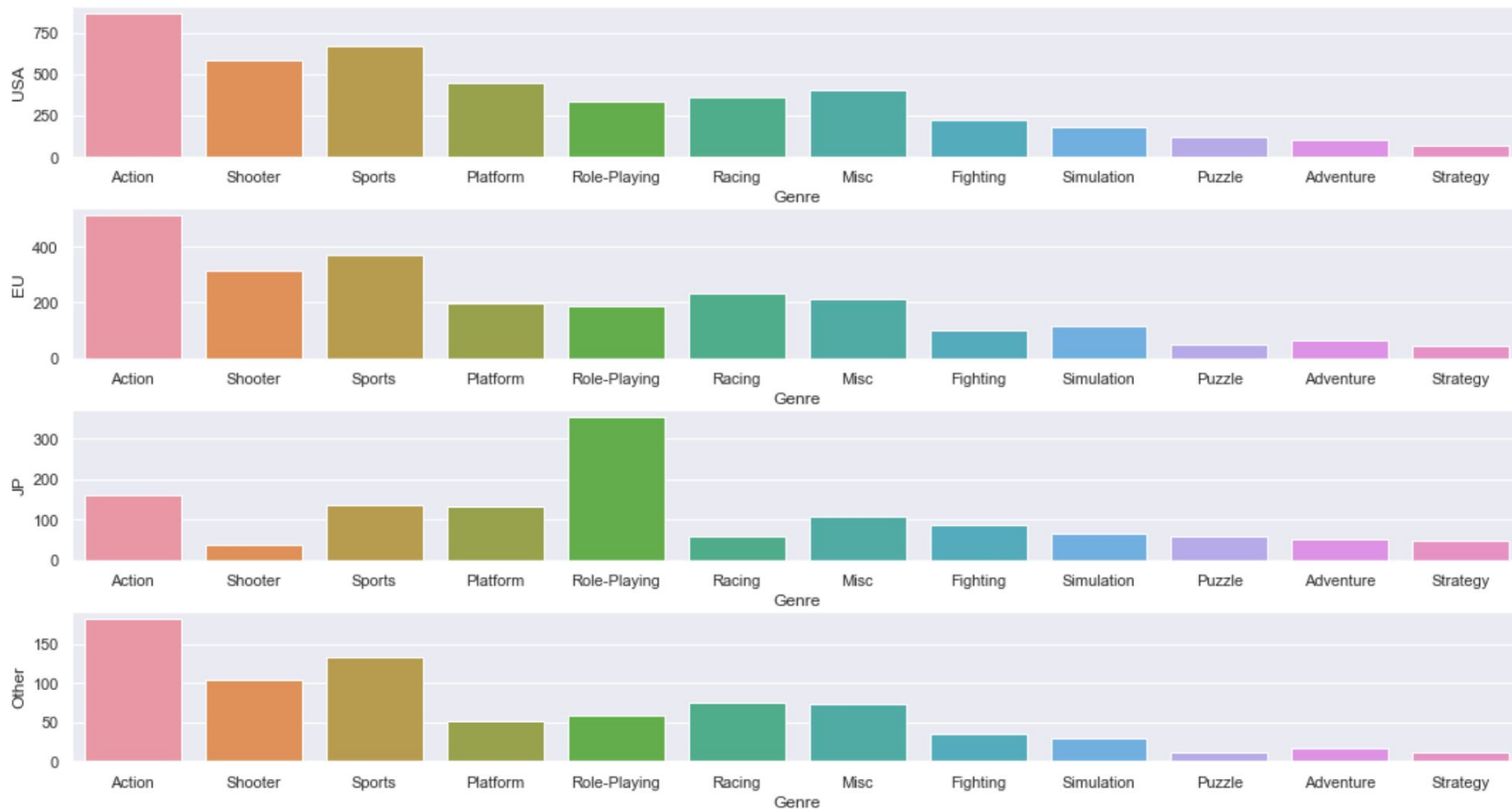
```
4.003541069796452 2370.775843779252
```

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

```
3.2159536640041786e-05
```



Sales by Region by Genre



QUESTION 3:

Do Users and Critics give equal scores?

Alpha = 0.05

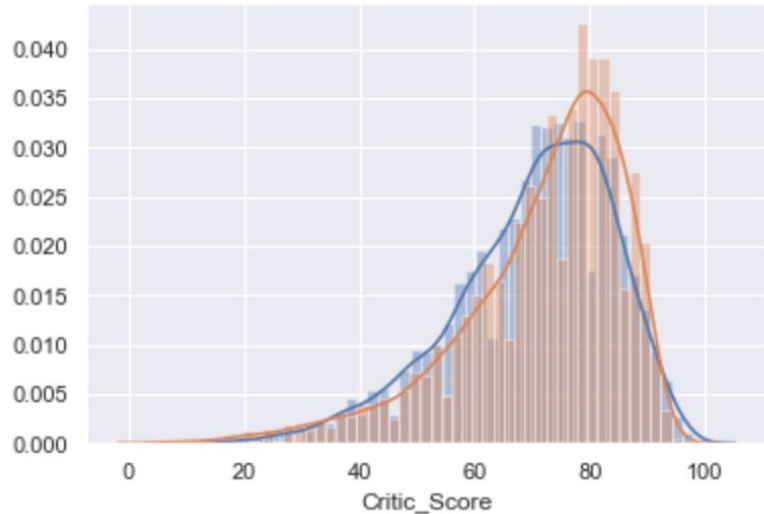
Sampling

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);
```



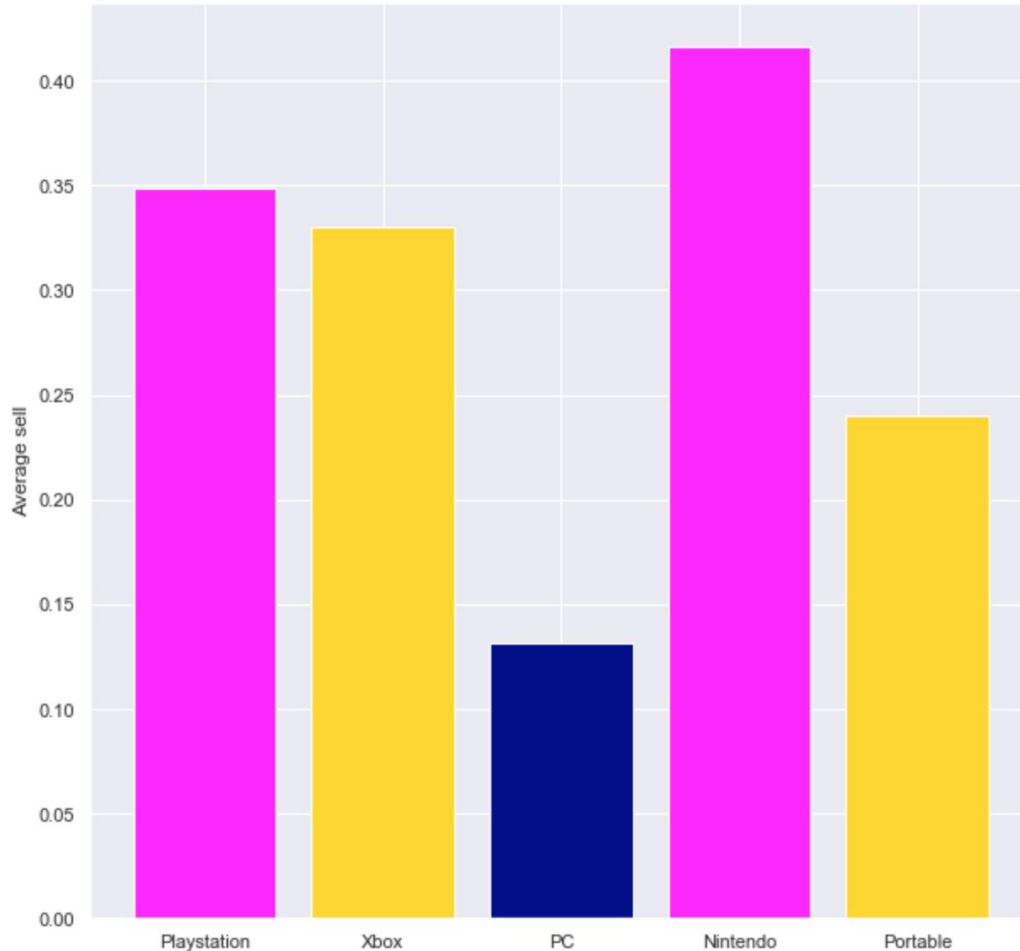


Thank you
for watching

Total Sales in Millions of Units



Different platforms



We would need more data on PC

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