設置環境

```
import pandas as pd
pd.plotting.register_matplotlib_converters()
import matplotlib.pyplot as plt
%matplotlib inline
import seaborn as sns
print("Setup Complete")
```

Setup Complete

```
# Set up code checking
import os
if not os.path.exists("../input/ign_scores.csv"):
    os.symlink("../input/data-for-datavis/ign_scores.csv", "../input/ign_scores.csv")
from learntools.core import binder
binder.bind(globals())
from learntools.data_viz_to_coder.ex3 import *
print("Setup Complete")
```

Setup Complete

Csv 檔:

n_scores.csv (4.43 kB)			/kaggle	/kaggle/input/data-for-datavis/ign_scores.csv					☐ Copy 10 of 13 columns ∨	
△ Platform =	# Action =	# Action, Ad =	# Adventure =	# Fighting =	# Platformer =	# Puzzle =	# RPG =	# Racing =	# Shooter =	
Oreamcast	6.8828571428571 435	7.5111111111111 1	6.2818181818181 81	8.2	8.34	8.088888888888 89	7.7	7.0424999999999 995	7.6166666666666666666666666666666666666	
Same Boy Advance	6.3730769230769	7.5076923076923 09	6.0571428571428 57	6.2263157894736 84	6.9705882352941 18	6.5321428571428 575	7.5428571428571 43	6.6571428571428 575	6.444444444444444444444444444444444444	
Same Boy Color	6.2727272727272 725	8.1666666666666666666666666666666666666	5.3076923076923 075	4.5	6.3529411764705 88	6.5833333333333 33	7.2857142857142 86	5.8974358974358 98	4.5	
SameCube	6.5325842696629 195	7.6083333333333 34	6.7538461538461 54	7.42222222222 22	6.6657142857142 86	6.1333333333333 33	7.8909090909090 91	6.8526315789473 7	6.9818181818181 83	
Nintendo 3DS	6.6708333333333 33	7.4818181818181 815	7.4142857142857 13	6.6142857142857 14	7.5034482758620 7	7.999999999999 99	7.7192307692307 7	6.9	7.0333333333333 32	
Vintendo 64	6.6490566037735 86	8.25	7.0	5.6812499999999 995	6.8896551724137 95	7.4615384615384 62	6.0500000000000	6.9396226415094 34	8.0428571428571 43	
Vintendo DS	5.9036082474226 8	7.2399999999999 99	6.2598039215686 27	6.32	6.839999999999	6.6046153846153 85	7.2226190476190 48	6.0386363636363 65	6.9652173913043 47	
Vintendo DSi	6.8270270270270 27	8.5	6.0909090909090 91	7.5	7.25	6.8105263157894 74	7.1666666666666666666666666666666666666	6.5636363636363 635	6.5	

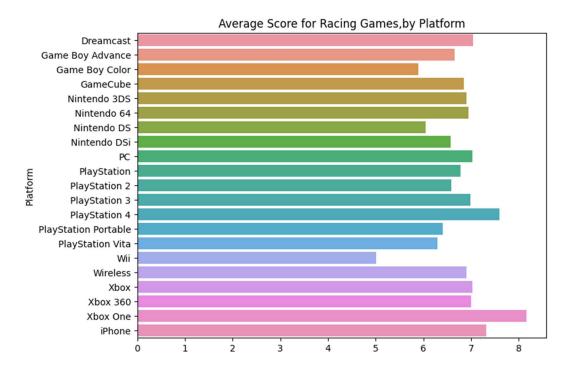
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讀檔後, print 資料



畫 barplot(Which platform is best?)

```
plt.figure(figsize=(8,6))
# Bar chart showing average score for racing games by platform
sns.barplot(x=ign_data['Racing'],y=ign_data.index)
#Label for horizontal axis
plt.xlabel("")|
plt.title("Average Score for Racing Games,by Platform")
# Check your answer
step_3.a.check()
```



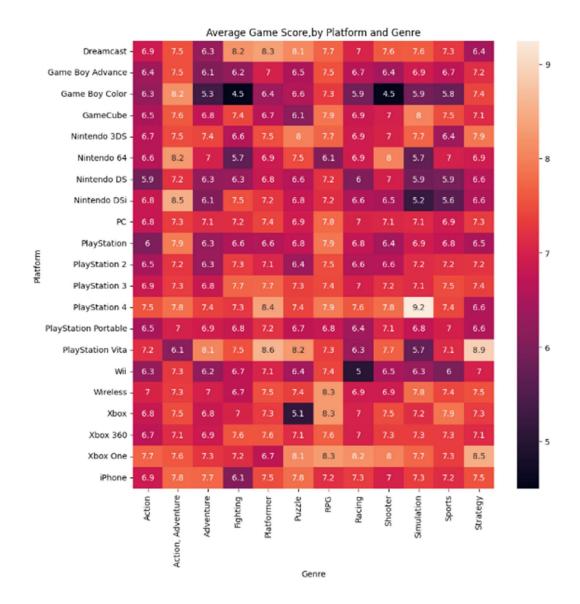
Step3 PartB:根據這張長條圖,你認為 Wii 平台的賽車遊戲會獲得高分嗎?如果不是,那麼哪個遊戲平台似乎是最佳選擇?

根據數據,我們不應該指望 Wii 平台的賽車遊戲能獲得高分。事實上,Wii 平台的賽車遊戲平均評分低於其他任何平台。 Xbox One 似乎是最佳選擇,因為它的平均評分最高。

Heatmap:

遊戲類型和平台劃分的平均得分熱圖。

```
# Heatmap showing average game score by platform and genre
#Set width and height
plt.figure(figsize=(10,10))
#Heatmap showing average game score by platform and genre(annotaion:每個方格中顯示數值)
sns.heatmap(ign_data,annot=True)
#Add label for hoizontal
plt.xlabel("Genre")
#Add label for vertical
plt.ylabel("Platform")
plt.title("Average Game Score,by Platform and Genre")
# Check your answer
step_4.a.check()
```



哪種遊戲類型和平台組合的平均分數最高?哪一種組合的平均分數最低?

PlayStation 4 的模擬遊戲平均分數最高(9.2)。 Game Boy Color 的射擊和格鬥遊戲平均得分最低(4.5)。