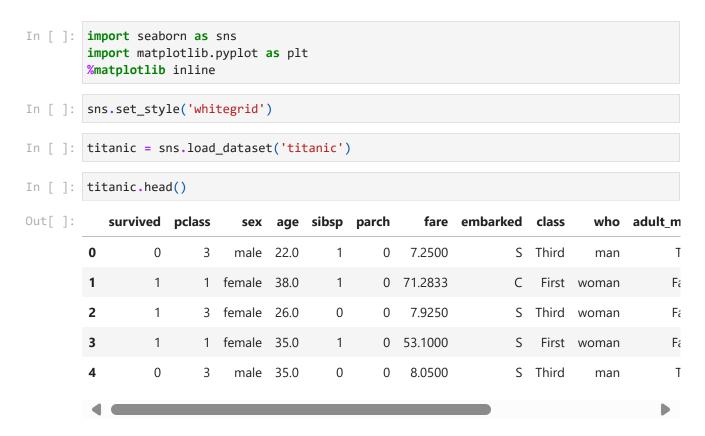
Data Visualization with Seaborn - Exercises

The Data

ใน exercise นี้ เราจะใช้ titanic data set ซึ่งเป็น Data ที่มีชื่อเสียงเป็นที่นิยม ซึ่งมีให้อยู่ใน library ของ seaborn

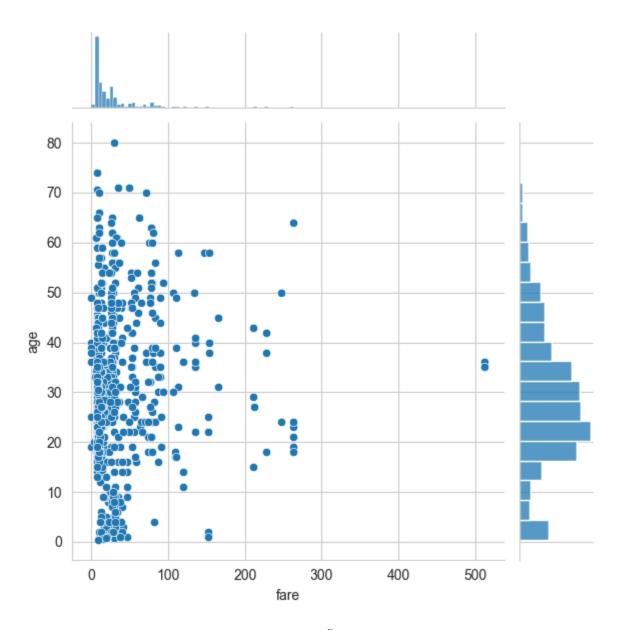


Exercises

```
In [ ]: sns.jointplot(data = titanic, x = 'fare' , y = 'age')
Out[ ]: <seaborn.axisgrid.JointGrid at 0x26b625b2790>
```

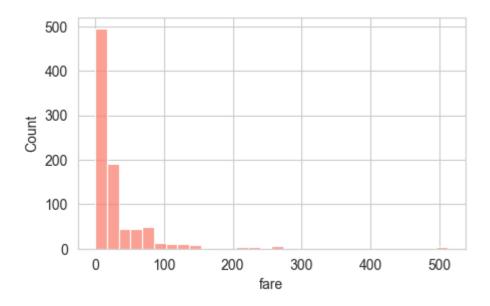
^{**} ให้นำ data ของ titanic ที่เป็น dataframe ไปใช้ทำการ plot ให้ตรงกับภาพดังต่อไปนี้**

^{**} Note! เพื่อไม่ให้ภาพที่ถูกต้องหาย อย่าลืม insert cell ขึ้นมาข้างบนใหม่มาขั้นก่อนทำการ run code จะได้ไม่ทำให้เกิดกันทับซ้อน (overwrite) **



```
In [ ]: plt.figure(figsize=[5,3])
    sns.histplot(titanic['fare'],bins = 30,color='salmon')
```

Out[]: <Axes: xlabel='fare', ylabel='Count'>



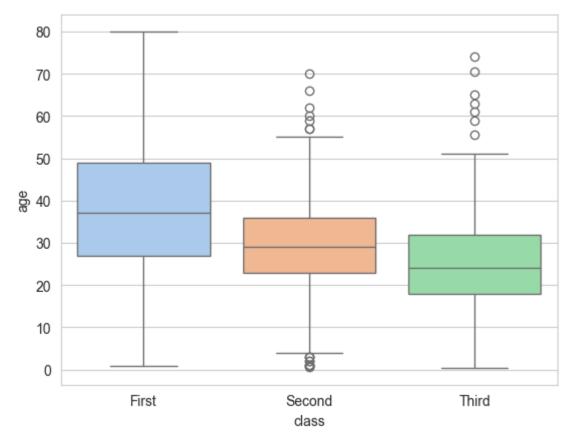
```
In [ ]: sns.boxplot(data = titanic, x = 'class' , y = 'age', palette='pastel')

C:\Users\pawar\AppData\Local\Temp\ipykernel_19604\3623707956.py:1: FutureWarning:

Passing `palette` without assigning `hue` is deprecated and will be removed in v0.1
4.0. Assign the `x` variable to `hue` and set `legend=False` for the same effect.

sns.boxplot(data = titanic, x = 'class' , y = 'age', palette='pastel')
```

Out[]: <Axes: xlabel='class', ylabel='age'>



```
In []: plt.figure(figsize=[5,4])
    sns.swarmplot(data = titanic, x = 'class' , y = 'age', palette='pastel')

C:\Users\pawar\AppData\Local\Temp\ipykernel_19604\1017227875.py:2: FutureWarning:

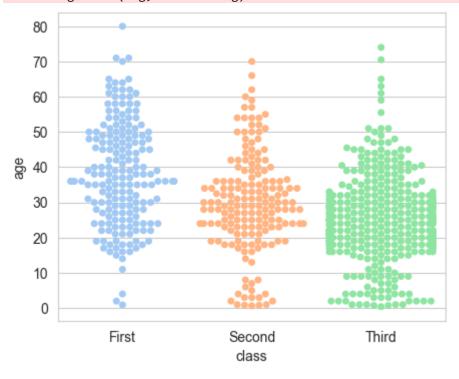
Passing `palette` without assigning `hue` is deprecated and will be removed in v0.1
    4.0. Assign the `x` variable to `hue` and set `legend=False` for the same effect.

    sns.swarmplot(data = titanic, x = 'class' , y = 'age', palette='pastel')
    c:\Users\pawar\Desktop\Code\DS\.venv\Lib\site-packages\seaborn\categorical.py:3399:
    UserWarning: 11.8% of the points cannot be placed; you may want to decrease the size of the markers or use stripplot.
    warnings.warn(msg, UserWarning)
```

Out[]: <Axes: xlabel='class', ylabel='age'>

c:\Users\pawar\Desktop\Code\DS\.venv\Lib\site-packages\seaborn\categorical.py:3399:
UserWarning: 24.8% of the points cannot be placed; you may want to decrease the size
of the markers or use stripplot.

warnings.warn(msg, UserWarning)

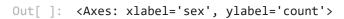


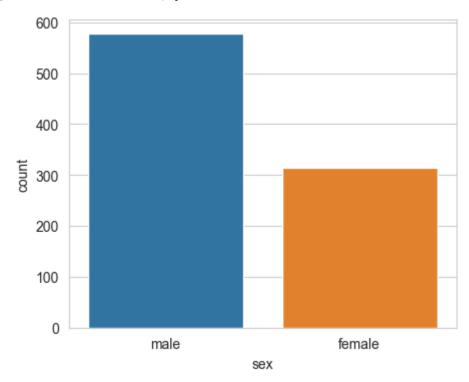
```
In [ ]: plt.figure(figsize=[5,4])
    sns.countplot(data = titanic, x = 'sex',palette='tab10')

C:\Users\pawar\AppData\Local\Temp\ipykernel_19604\3819122286.py:2: FutureWarning:

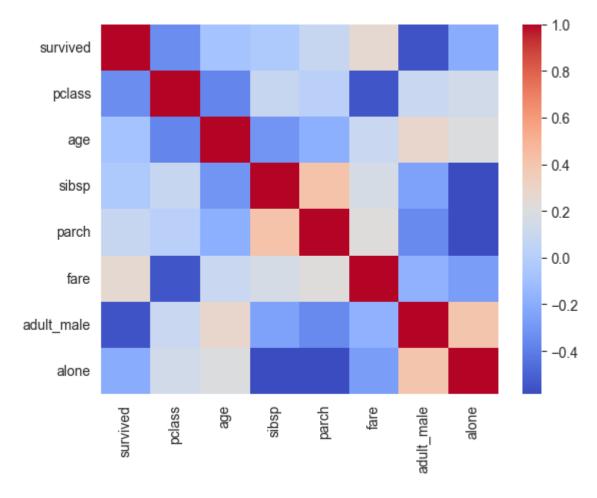
Passing `palette` without assigning `hue` is deprecated and will be removed in v0.1
    4.0. Assign the `x` variable to `hue` and set `legend=False` for the same effect.

sns.countplot(data = titanic, x = 'sex',palette='tab10')
```



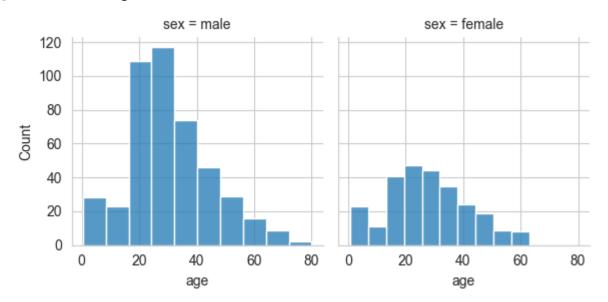


```
In [ ]: sns.heatmap(titanic[['survived', 'pclass', 'age', 'sibsp', 'parch', 'fare', 'adult_male
Out[ ]: <Axes: >
```



```
In [ ]: g = sns.FacetGrid(data=titanic,col='sex')
g.map(sns.histplot,'age',bins=10)
```

Out[]: <seaborn.axisgrid.FacetGrid at 0x26b66d61890>



---- ภาวนามยปัญญา ปัญญาที่เกิดจากการลงมือทำ! -----