In [2]: import matplotlib.pyplot as plt import seaborn as sns df = sns.load_dataset("tips") df.head(3)

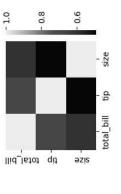
size	2	3	23
time s	Dinner	Dinner	Dinner
day	Sun	Sun	Sun
smoker	Š	Š	Š
sex	Female	Male	Male
tip	1.01	1.66	3.50
total_bill	16.99	10.34	21.01
Out[2]:	0	-	2

Out[3]:	total_bill	tip	size
total_bill	1.000000	0.675734	0.598315
tip	0.675734	1.000000 0.489299	0.489299
size	0.598315	0.489299	1.000000

Heat Map

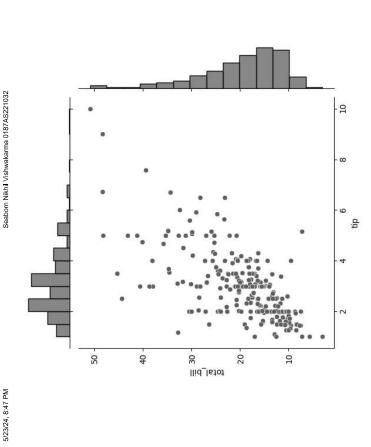
In [33]: plt.figure(figsize=(3,2))
sns.heatmap(corr)

Out[33]: <Axes: >



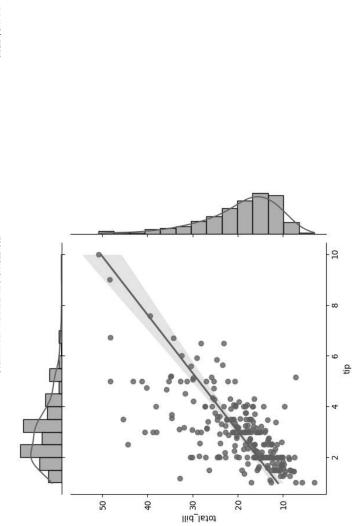
Joint Plot

Out[7]: <seaborn.axisgrid.JointGrid at 0x7f8e8fc44b10>



In [8]: | sns.jointplot(data=df1,x='tip',y='total_bill', kind='reg')

Out[8]: <seaborn.axisgrid.JointGrid at 0x7f8e878c35d0>

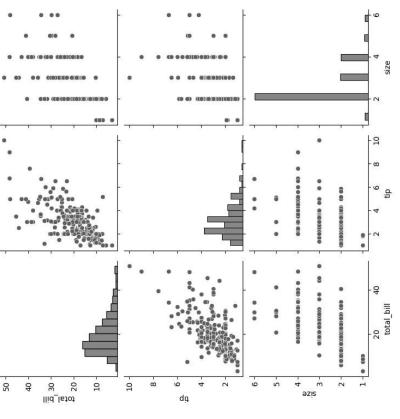


Pair Plot

In [10]: sns.pairplot(data=df1)

/opt/conda/envs/anaconda-panel-2023.05-py310/lib/python3.11/site-packages/seaborn/axisgrid.py:1 18: UserWarning: The figure layout has changed to tight self. figure.tight_layout(*angs, **kwangs)

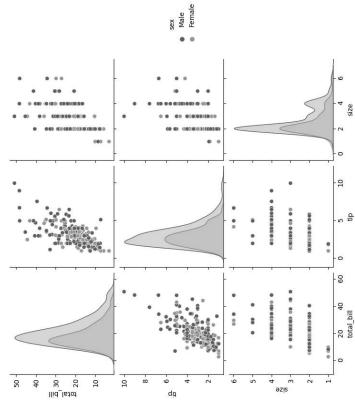
Out[10]: <seaborn.axisgrid.PairGrid at 0x7f8e8fa7b950>



In [11]: sns.pairplot(data=df, hue='sex')

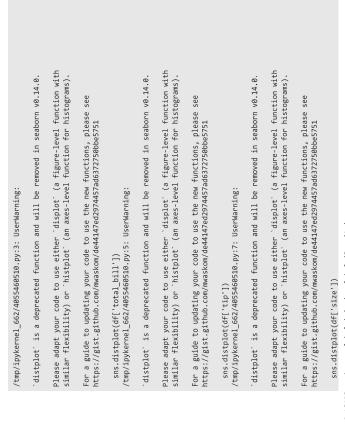
/opt/conda/envs/anaconda-panel-2023.05-py310/lib/python3.11/site-packages/seaborn/axisgrid.py:1 18: UserWarning: The figure layout has changed to tight self._figure.tight_layout(*args, **kwargs)

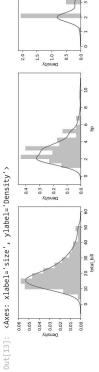
Out[11]: <seaborn.axisgrid.PairGrid at 0x7f8e876a6c50>



Dist Plot

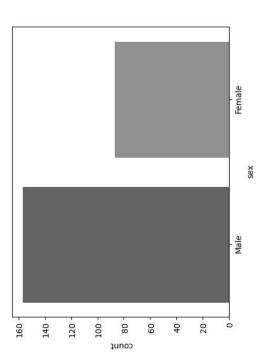
3]: plt.figure(figsize=(16,9))
plt.subplot(3,3,1)
sns.distplot(df['total_bill'])
plt.subplot(3,3,2)
sns.distplot(df['tip'])
plt.subplot(3,3,3)
sns.distplot(df['size'])



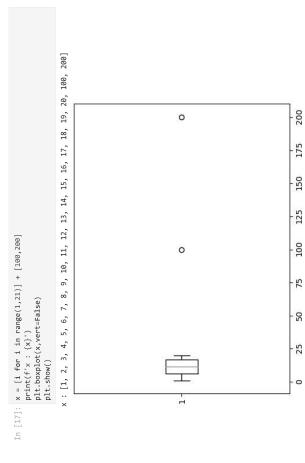


Count Plot

- In [15]: sns.countplot(data=df,x='sex')
- Out[15]: <Axes: xlabel='sex', ylabel='count'>



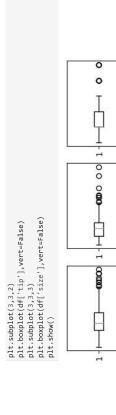
Boxplot



In [18]: plt.subplot(3,3,1)
plt.boxplot(df['total_bill'],vert=False)

8// https://nb.anaconda.cloud/jupyterhub/user/3449c631-9aa2-4115-84fc-683bc88773e3Aab/tree/Machine Learning/Data Visualization/Seaborn Nikhil Vish...

Seaborn Nikhil Vishwakarma 0187AS221032 5/23/24, 8:47 PM



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