02-DataVis-5Ways Matplotlib+Seaborn+Pandas

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```python
[9]: import pandas as pd
     import matplotlib.pyplot as plt
     import seaborn as sns

     sns.set_theme()
     sns.set(rc = {"figure.figsize":(8,6)})
```

```python
[13]: df = pd.read_csv("cars-sample.csv", index_col=[0])
      df.head()
```

```
[13]:                    Car Manufacturer   MPG  Cylinders  Displacement  Horsepower  \
      5                torino          ford  17.0          8           302       140.0
      6            galaxie 500         ford  15.0          8           429       198.0
      13             torino (sw)       ford   NaN          8           351       153.0
      18      mustang boss 302        ford   NaN          8           302       140.0
      21        corona mark ii      toyota  24.0          4           113        95.0

            Weight  Acceleration  Model.Year     Origin
      5       3449          10.5          70   American
      6       4341          10.0          70   American
      13      4034          11.0          70   American
      18      3353           8.0          70   American
      21      2372          15.0          70   Japanese
```

```python
[11]: sns.scatterplot(x="Weight", y="MPG", hue="Manufacturer", size="Weight",␣
       ↪sizes=(50, 200), alpha=0.5, data=df)
      plt.legend(bbox_to_anchor=(1.01, 0.5), loc="center left", borderaxespad=0.,␣
       ↪frameon=False)
      plt.show()
```