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- Bar Plots

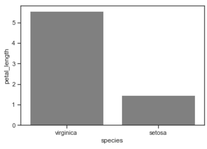
In [1]:
```
import seaborn as sns
import matplotlib.pyplot as plt

sns.set_theme(style="ticks", color_codes=True)

data_1 = sns.load_dataset("iris")
data_1
```

Out[1]:

	sepal_length	sepal_width	petal_length	petal_width	species
0	5.1	3.5	1.4	0.2	setosa
1	4.9	3.0	1.4	0.2	setosa
2	4.7	3.2	1.3	0.2	setosa
3	4.6	3.1	1.5	0.2	setosa
4	5.0	3.6	1.4	0.2	setosa
...	...	...	...	...	...
145	6.7	3.0	5.2	2.3	virginica
146	6.3	2.5	5.0	1.9	virginica
147	6.5	3.0	5.2	2.0	virginica
148	6.2	3.4	5.4	2.3	virginica
149	5.9	3.0	5.1	1.8	virginica

150 rows × 5 columns

In [2]:
```
p = sns.barplot(x="species", y="petal_length", data=data_1, order=["virginica", "setosa"], color="grey", ci=None)
plt.show()
```



- Count Plot

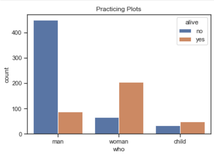
In [3]:
```
#importing libraries
import seaborn as sns
import matplotlib.pyplot as plt

sns.set_theme(style="ticks", color_codes=True)

ship = sns.load_dataset("titanic")
ship
```

Out[3]:

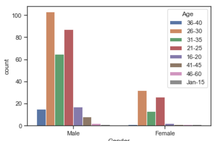
	survived	pclass	sex	age	sibsp	parch	fare	embarked	class	who	adult_male	deck	embark_town	alive	alone
0	0	3	male	22.0	1	0	7.2500	S	Third	man	True	NaN	Southampton	no	False
1	1	1	female	38.0	1	0	71.2833	C	First	woman	False	C	Cherbourg	yes	False
2	1	3	female	26.0	0	0	7.9250	S	Third	woman	False	NaN	Southampton	yes	True
3	1	1	female	35.0	1	0	53.1000	S	First	woman	False	C	Southampton	yes	False
4	0	3	male	35.0	0	0	8.0500	S	Third	man	True	NaN	Southampton	no	True
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
886	0	2	male	27.0	0	0	13.0000	S	Second	man	True	NaN	Southampton	no	True
887	1	1	female	19.0	0	0	30.0000	S	First	woman	False	B	Southampton	yes	True
888	0	3	female	NaN	1	2	23.4500	S	Third	woman	False	NaN	Southampton	no	False
889	1	1	male	26.0	0	0	30.0000	C	First	man	True	C	Cherbourg	yes	True
890	0	3	male	32.0	0	0	7.7500	Q	Third	man	True	NaN	Queenstown	no	True

891 rows × 15 columns

In [4]:
```
p = sns.countplot(x="who", data=ship, hue="alive")
p.set_title("Practicing Plots")
plt.show()
```



In [5]:
```
import pandas as pd

#importing file
info = pd.read_csv("info_course.csv")

sns.set_theme(style="ticks", color_codes=True)

p = sns.countplot(x="Gender", hue="Age", data=info)
plt.show()
```



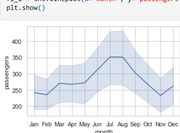
In [6]:
```
fl = sns.load_dataset("flights")
fl
```

Out[6]:

	year	month	passengers
0	1949	Jan	112
1	1949	Feb	118
2	1949	Mar	132
3	1949	Apr	129
4	1949	May	121
...	...	...	...
139	1960	Aug	606
140	1960	Sep	508
141	1960	Oct	461
142	1960	Nov	390
143	1960	Dec	432

144 rows × 3 columns

In [7]:
```
sns.set_style(style=None, rc=None)
sns.set_style(style="whitegrid")
plt.figure(figsize=(5,3))
fl_1 = sns.lineplot(x="month", y="passengers", data=fl)
plt.show()
```



- Box Plot

In [8]:
```
import seaborn as sns
import matplotlib.pyplot as plt

sns.set_theme(style="white", color_codes=True)

hotel_data = sns.load_dataset("tips")
hotel_data
```

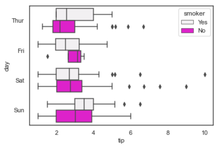
Out[8]:

	total_bill	tip	sex	smoker	day	time	size
0	16.99	1.01	Female	No	Sun	Dinner	2
1	10.34	1.66	Male	No	Sun	Dinner	3
2	21.01	3.50	Male	No	Sun	Dinner	3
3	23.68	3.31	Male	No	Sun	Dinner	2
4	24.59	3.61	Female	No	Sun	Dinner	4
...	...	...	...	...	...	...	...
239	29.03	5.92	Male	No	Sat	Dinner	3
240	27.18	2.00	Female	Yes	Sat	Dinner	2
241	22.67	2.00	Male	Yes	Sat	Dinner	2
242	17.82	1.75	Male	No	Sat	Dinner	2
243	18.78	3.00	Female	No	Thur	Dinner	2

244 rows × 7 columns

In [9]:
```
sns.boxplot(x="tip", y="day", data=hotel_data, hue="smoker", color="#fc03e3")
```

Out[9]:
```
<AxesSubplot:xlabel='tip', ylabel='day'>
```



- Customizing Plots

In [10]:
```
sns.boxplot(x="day", y="tip", data=hotel_data, hue="smoker", showmeans=True, meanprops={"marker" : "*", "markersize" : "12","markeredgecolor" : "red"})
plt.title("Sir Ammar Ki Di Hoyi Assignment", size=18)
plt.xlabel("Konsa Din Tha", size=18)
plt.ylabel("Kitny pesy milyy", size=18)
plt.show()
```