Line Plot

In [2]:
```
import seaborn as sns
import numpy as np
import pandas as pd
import matplotlib.pyplot as plt

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

Out[2]:

	survived	pclass	sex	age	sibsp	parch	fare	embarked	class	who	adult_male	deck
0	0	3	male	22.0	1	0	7.2500	S	Third	man	True	NaN
1	1	1	female	38.0	1	0	71.2833	C	First	woman	False	C
2	1	3	female	26.0	0	0	7.9250	S	Third	woman	False	NaN
3	1	1	female	35.0	1	0	53.1000	S	First	woman	False	C
4	0	3	male	35.0	0	0	8.0500	S	Third	man	True	NaN

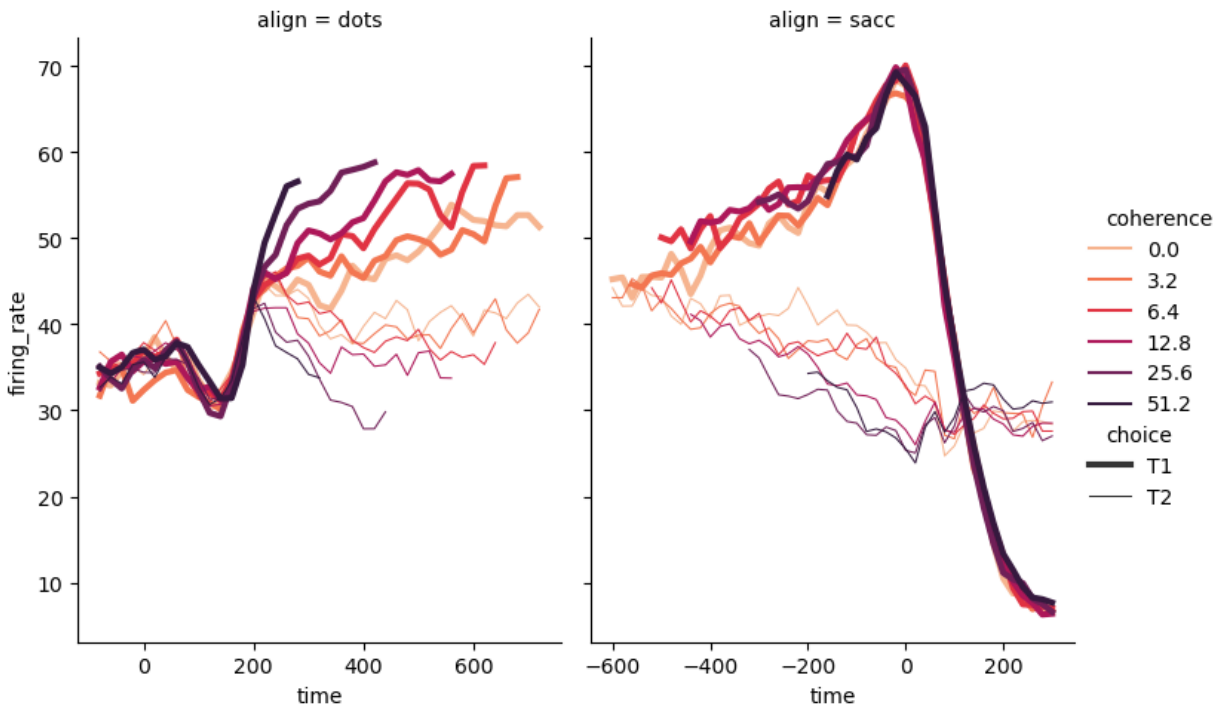
In [13]:
```
# import Libraries
import seaborn as sns
import numpy as np
import pandas as pd
import matplotlib.pyplot as plt

point = sns.load_dataset("dots")

point.head()
```

Out[13]:

	align	choice	time	coherence	firing_rate
0	dots	T1	-80	0.0	33.189967
1	dots	T1	-80	3.2	31.691726
2	dots	T1	-80	6.4	34.279840
3	dots	T1	-80	12.8	32.631874
4	dots	T1	-80	25.6	35.060487

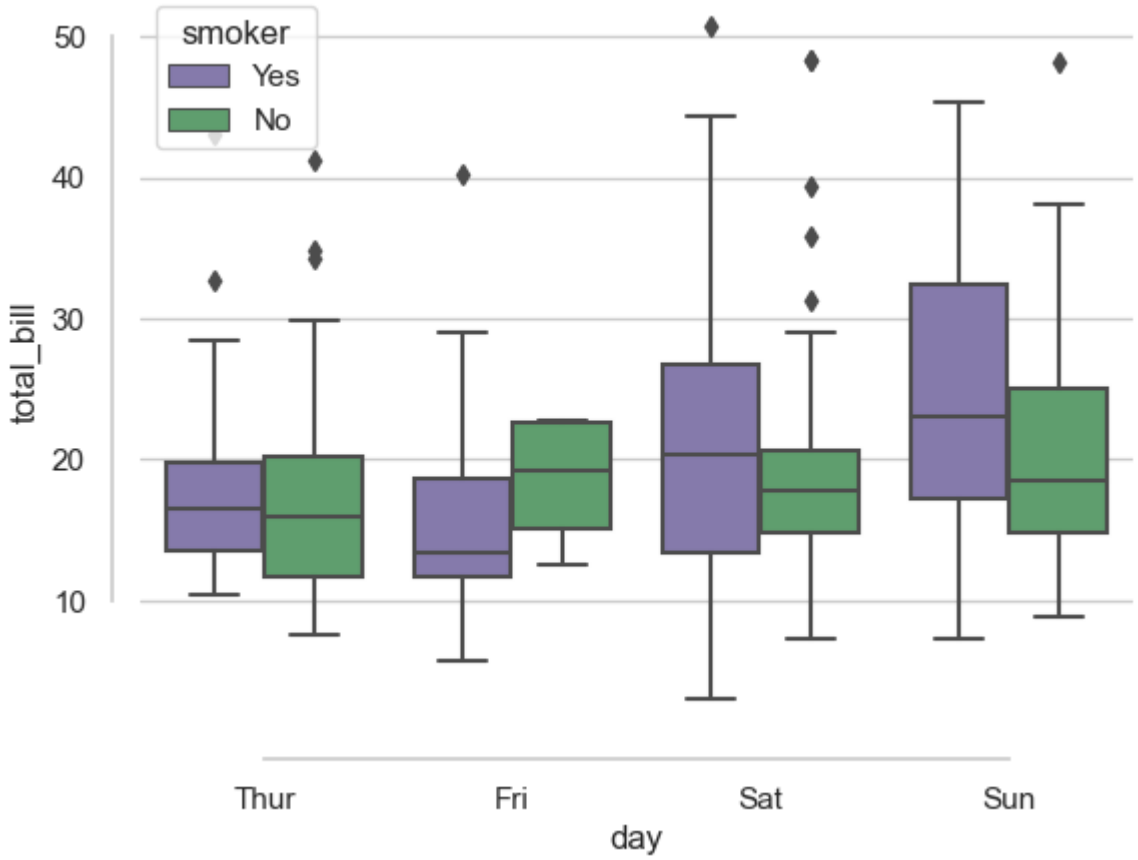
In [14]:
```
# import Libraries
import seaborn as sns
import numpy as np
import pandas as pd
import matplotlib.pyplot as plt

point = sns.load_dataset("dots")

# defining a color palette
pel = sns.color_palette('rocket_r')
```

```
# Line Plot
sns.relplot(data=point,x='time',y="firing_rate",
            hue="coherence", size="choice",col="align",palette=pel,
            kind="line", size_order=["T1","T2"],height=5,aspect=.75,
             facet_kws=dict(sharex=False))
plt.show()
```

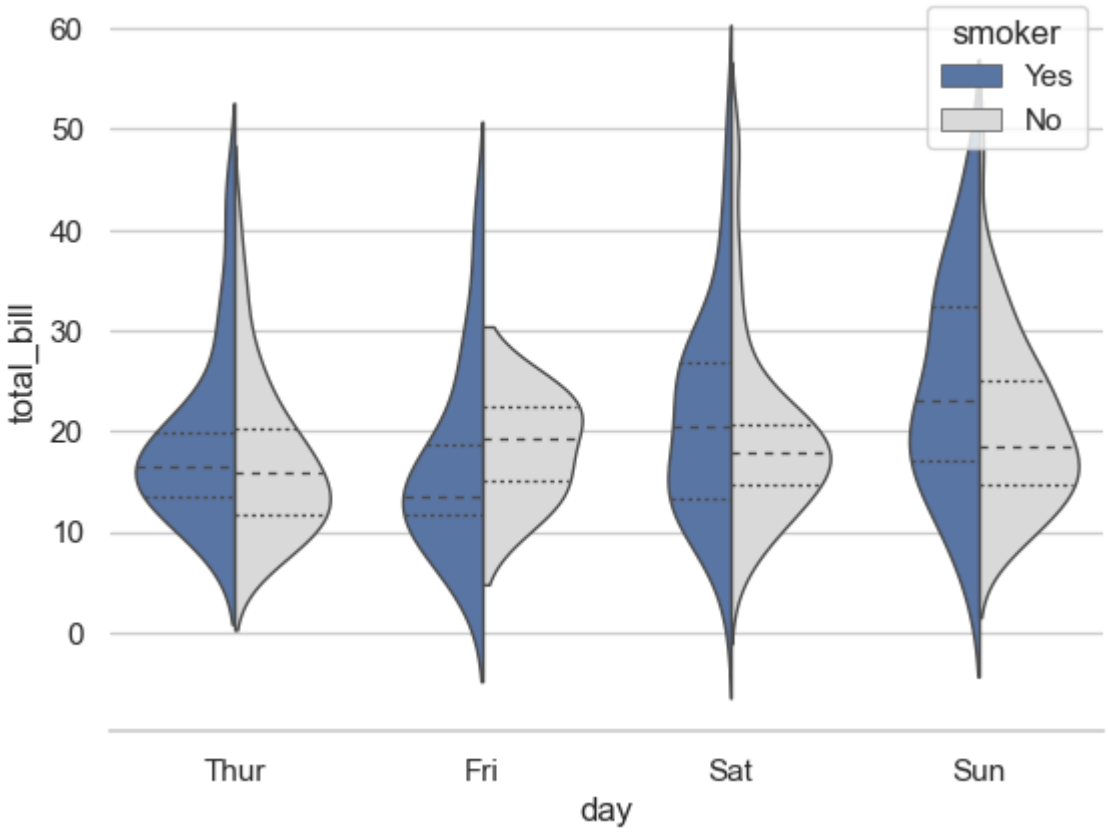


In [15]:

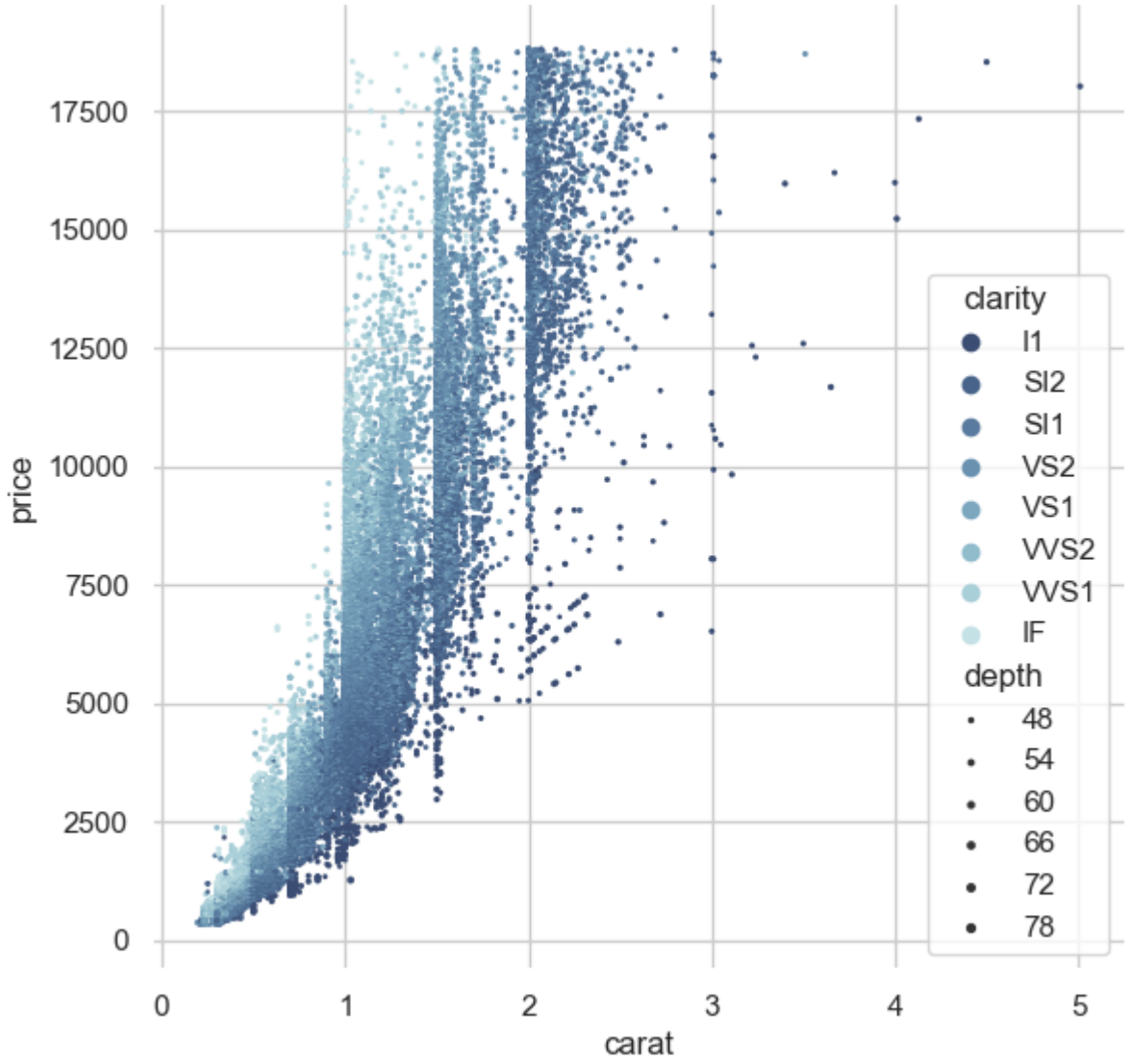
```
#Libraries
import seaborn as sns
import matplotlib.pyplot as plt
# use to set style of background of plot
sns.set(style="whitegrid")

# loading data-set
tip = sns.load_dataset("tips")

sns.boxplot(x="day", y="total_bill", hue="smoker",data=tip,
            palette=["m","g"],dodge=True)
# Dodge=smoker plot side by side
sns.despine(offset=10,trim=True)

plt.show()
```

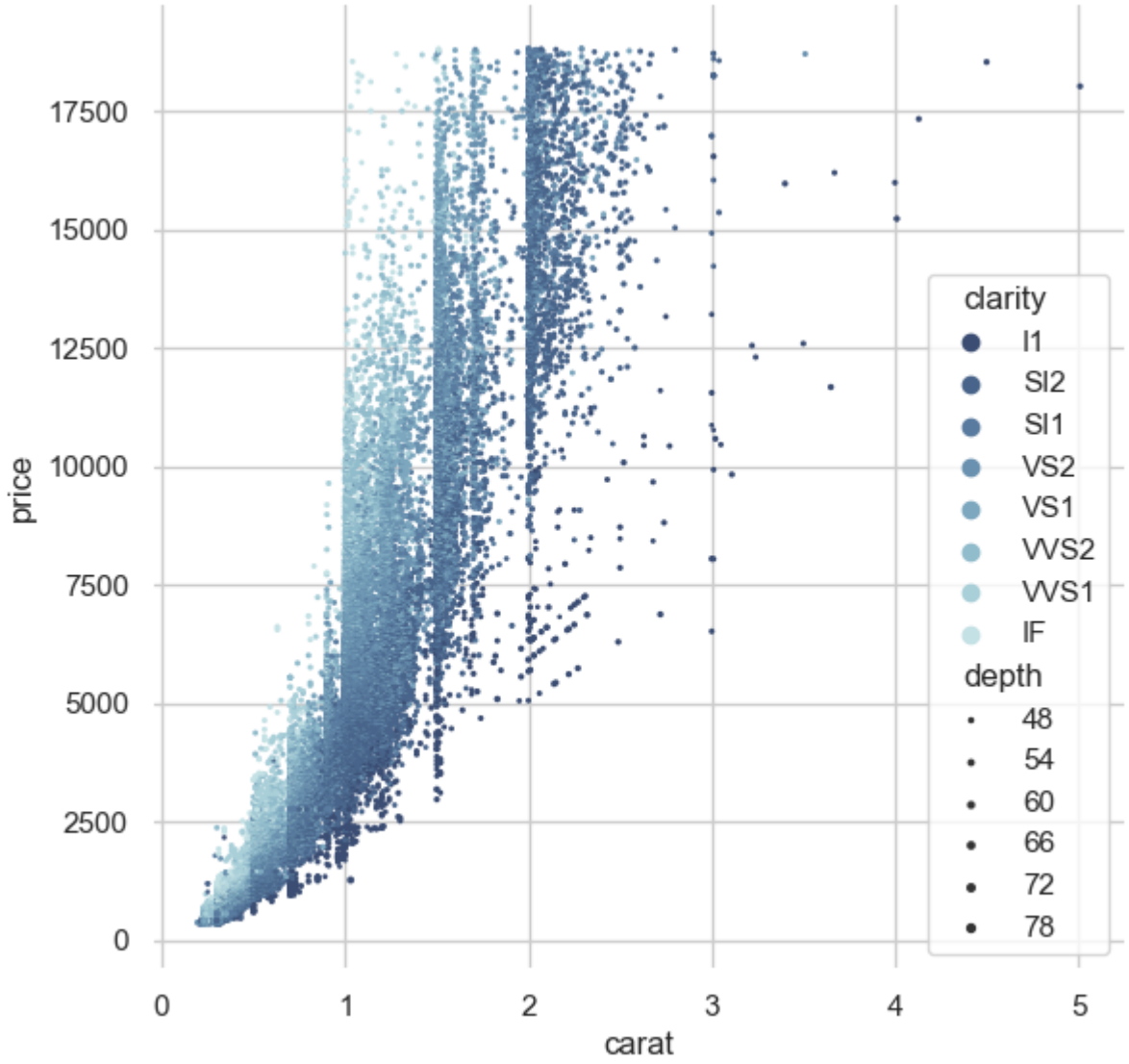


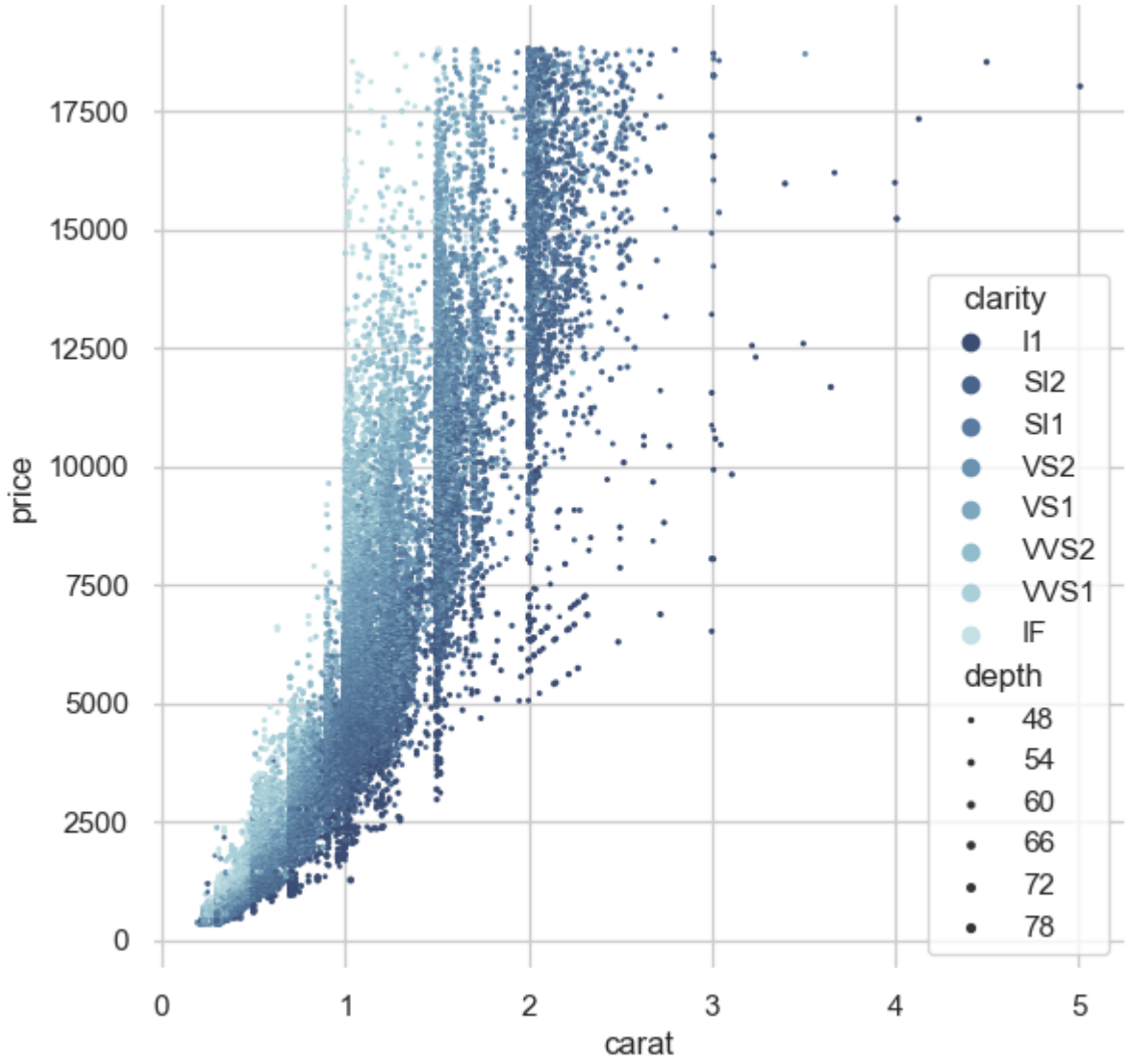
In [18]:
```
#libraries
import seaborn as sns
import matplotlib.pyplot as plt
# use to set style of background of plot
sns.set(style="whitegrid")

# loading data-set
tip = sns.load_dataset("tips")

sns.violinplot(x="day", y="total_bill", hue="smoker",data=tip,split=True,
           palette={"Yes":"b","No":".85"},inner="quart",linewidth=1)
# Dodge=smoker plot side by side
sns.despine(left=True)

plt.show()
```



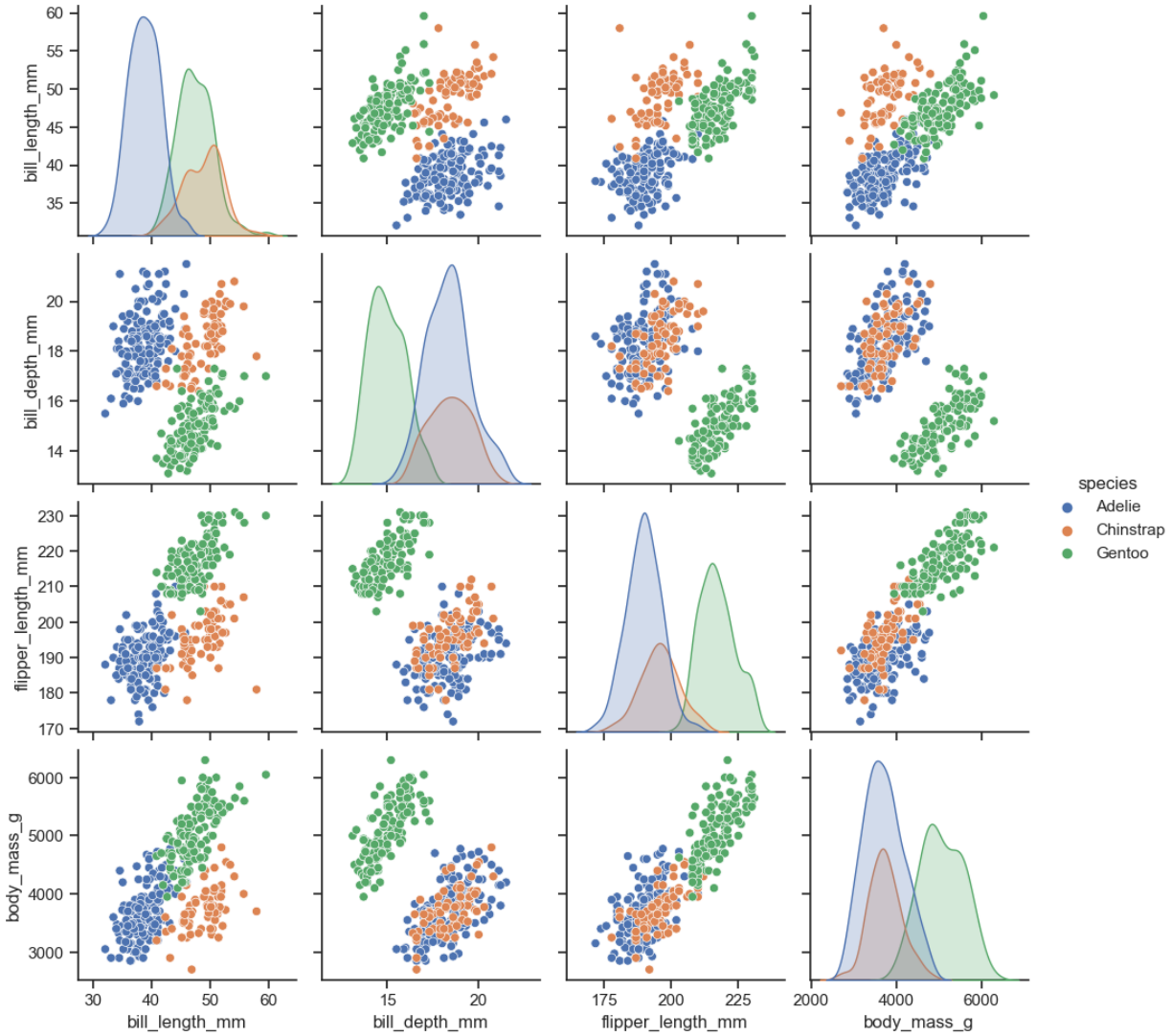
In [23]:
```
#libraries
import seaborn as sns
import matplotlib.pyplot as plt
# use to set style of background of plot
sns.set(style="whitegrid")

# loading data-set
diamonds = sns.load_dataset("diamonds")

f,ax = plt.subplots(figsize=(6.5,6.5))

sns.despine(f,left=True,bottom=True)
clarity_ranking =["I1","SI2","SI1","VS2","VS1","VVS2","VVS1","IF"]
sns.scatterplot(x="carat", y="price", hue="clarity",data=diamonds,
                size="depth",
            palette="ch:r=-.2,d=.3_r",hue_order=clarity_ranking,
                sizes=(1,8),linewidth=0,ax=ax)
# Dodge=smoker plot side by side
plt.show()
```

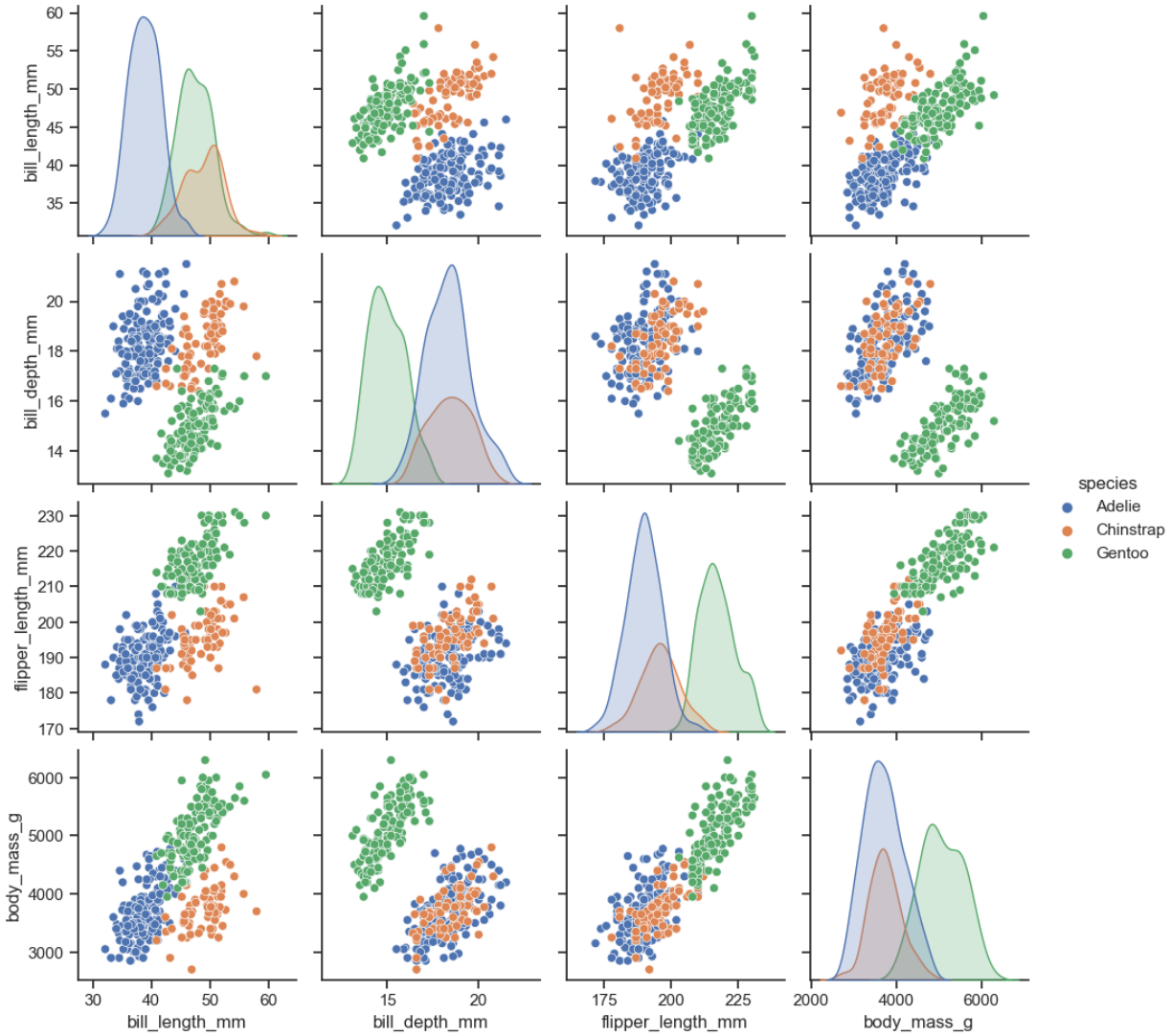

price
17500
15000
12500
10000
7500
5000
2500
0
0
1
2
3
4
5
carat
clarity
I1
SI2
SI1
VS2
VS1
VVS2
VVS1
IF
depth
48
54
60
66
72
78


price
17500
15000
12500
10000
7500
5000
2500
0
0
1
2
3
4
5
carat
clarity
I1
SI2
SI1
VS2
VS1
VVS2
VVS1
IF
depth
48
54
60
66
72
78



In [25]:
```
import seaborn as sns
import matplotlib.pyplot as plt
sns.set_theme(style="ticks")

df = sns.load_dataset("penguins")
sns.pairplot(df,hue="species")
plt.show()
```


bill_length_mm
bill_depth_mm
flipper_length_mm
body_mass_g
species
Adelie
Chinstrap
Gentoo



https://seaborn.pydata.org/examples/index.html