Participant

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BOX PLOTS

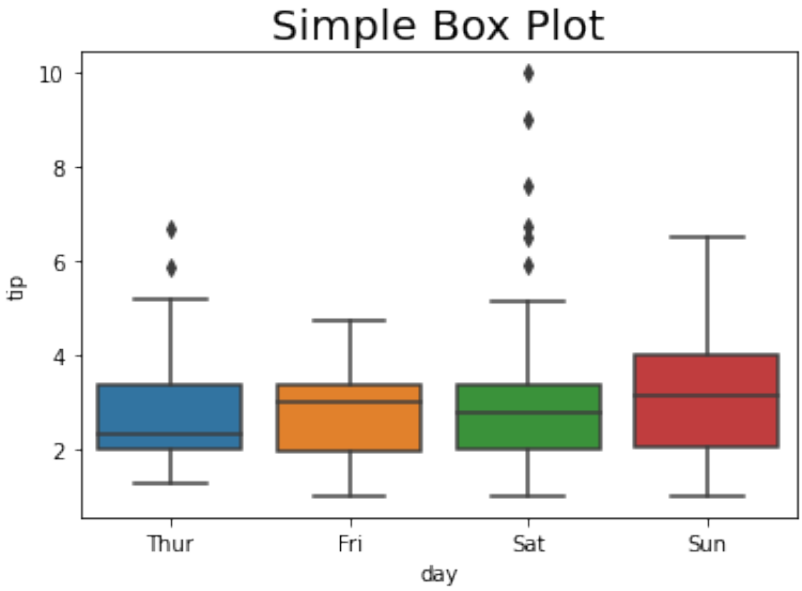
In [ ]:
```
# import libraries
import pandas as pd
import seaborn as sns
import matplotlib.pyplot as plt
# import data
data=sns.load_dataset("tips")

data.head ()
```

Out[ ]:

	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

Simple Box Plot

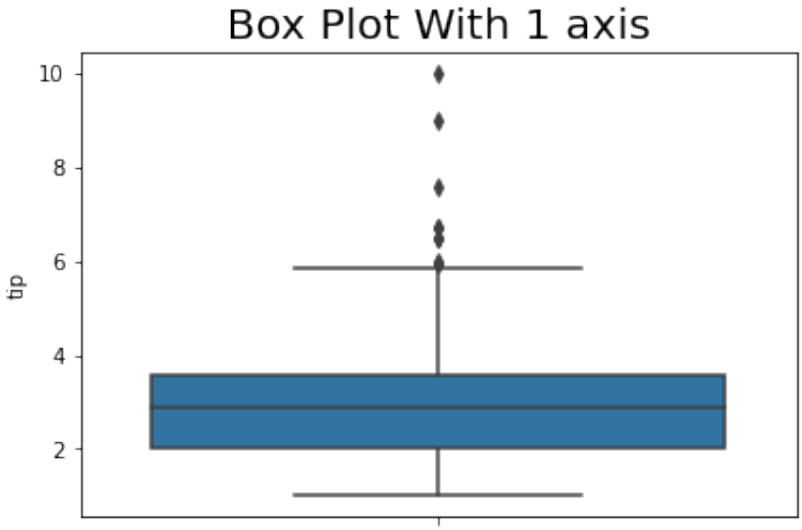
In [ ]:
```
#import library
import pandas as pd
import seaborn as sns
import matplotlib.pyplot as plt
#import data
data=sns.load_dataset("tips")
#assign plot
sns.boxplot(x="day", y="tip", data=data)
#title
plt.title("Simple Box Plot", size=20)
plt.show ()
```



Box Plot With 1 axis

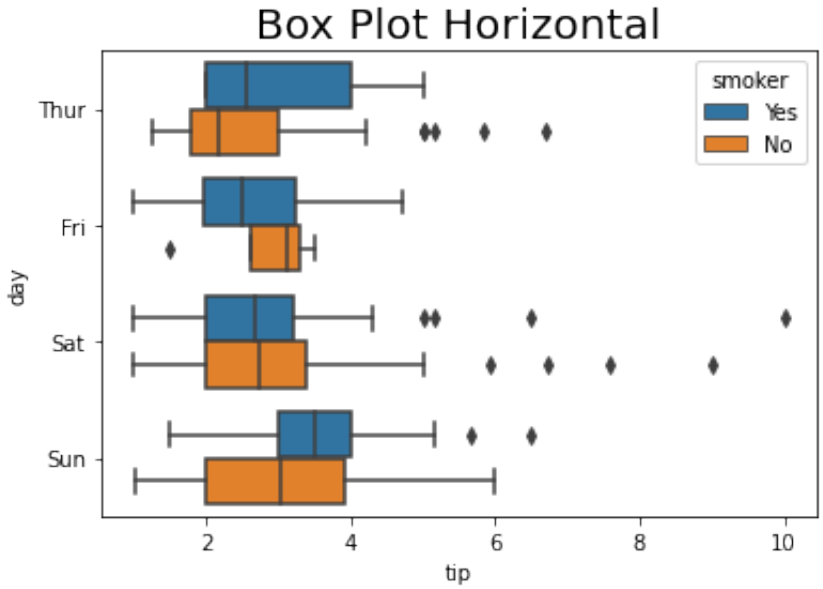
In [ ]:

```
#import library
import pandas as pd
import seaborn as sns
import matplotlib.pyplot as plt
#import data
data=sns.load_dataset("tips")
#assign plot
sns.boxplot(y="tip", data=data)
#title
plt.title("Box Plot With 1 axis", size=20)
plt.show ()
```



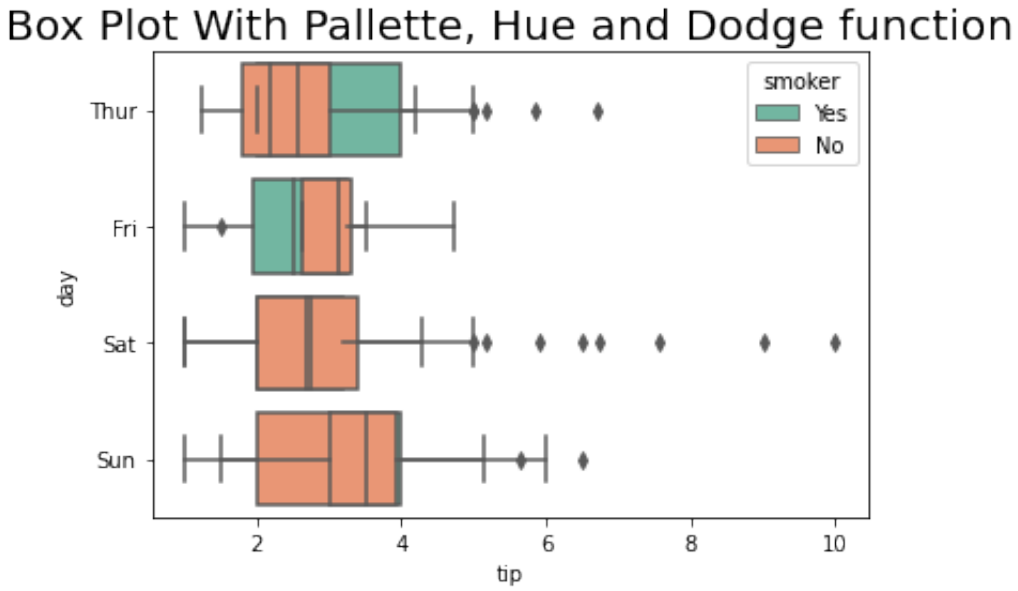
Horizontal Box Plot

In [ ]:
```
#import library
import pandas as pd
import seaborn as sns
import matplotlib.pyplot as plt
#import data
data=sns.load_dataset("tips")
#assign plot
sns.boxplot(x="tip", y="day",data=data,hue="smoker")
#title
plt.title("Box Plot Horizontal", size=20)
plt.show ()
```



Box Plot With Pallette, Hue and Dodge function

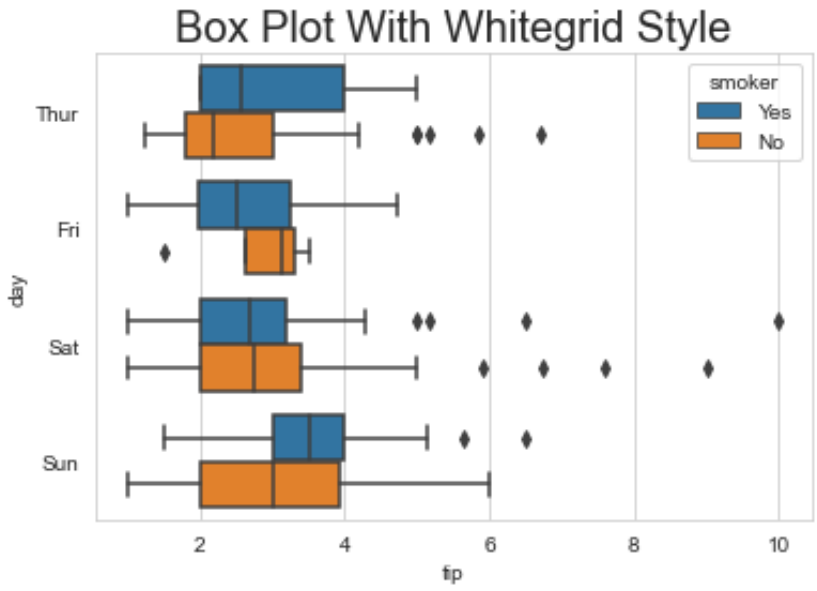
In [ ]:
```
#import library
import pandas as pd
import seaborn as sns
import matplotlib.pyplot as plt
#import data
data=sns.load_dataset("tips")
#assign plot
sns.boxplot(x="tip", y="day",data=data,hue="smoker",palette="Set2",dodge=Fa
#title
plt.title("Box Plot With Pallette, Hue and Dodge function", size=20)
plt.show ()
```



Box Plot With Whitegrid Style

In [ ]:

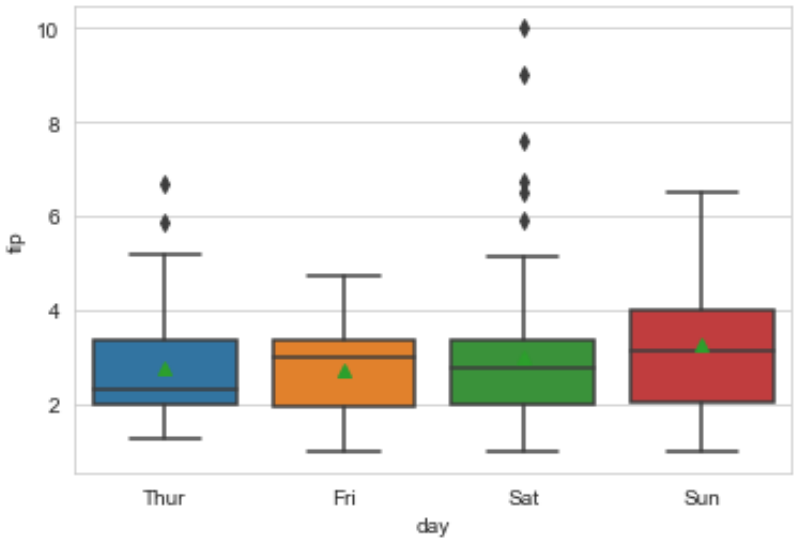
```
#import library
import pandas as pd
import seaborn as sns
import matplotlib.pyplot as plt
# Backgroun Style
sns.set_style("whitegrid")
#import data
data=sns.load_dataset("tips")
#assign plot
sns.boxplot(x="tip", y="day",data=data,hue="smoker")
#title
plt.title("Box Plot With Whitegrid Style", size=20)
plt.show ()
```



Box Plot With Mean Symbol in Middle Of Box

In [ ]:

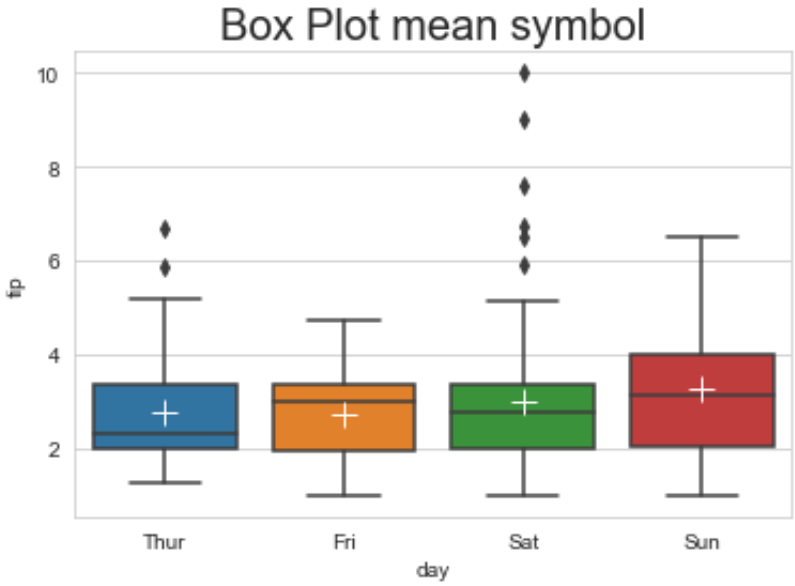
```
#import library
import pandas as pd
import seaborn as sns
import matplotlib.pyplot as plt
# Backgroun Style
sns.set_style=("dark")
#import data
data=sns.load_dataset("tips")
#assign plot
sns.boxplot(x="day", y="tip", showmeans=True,data=data)
plt.show ()
```



Box Plot With Diffrent Style of Mean Symbol

In [ ]:

```
#import library
import pandas as pd
import seaborn as sns
import matplotlib.pyplot as plt
# Backgroun Style
sns.set_style=("dark")
#import data
data=sns.load_dataset("tips")
#assign plot
sns.boxplot(x="day", y="tip", showmeans=True,
            meanprops={"marker":"+",
                       "markersize":"12",
                       "markeredgecolor":"white"},data=data)
#title
plt.title("Box Plot mean symbol", size=20)
plt.show ()
```



Box Plot with hue

In [ ]:

```
#import library
import pandas as pd
import seaborn as sns
import matplotlib.pyplot as plt
# Backgroun Style
sns.set_style=("dark")
#import data
data=sns.load_dataset("tips")
#assign plot
sns.boxplot(x="day", y="tip",data=data, hue="smoker")
#title
plt.title("Box Plot with hue", size=20)
plt.show ()
```