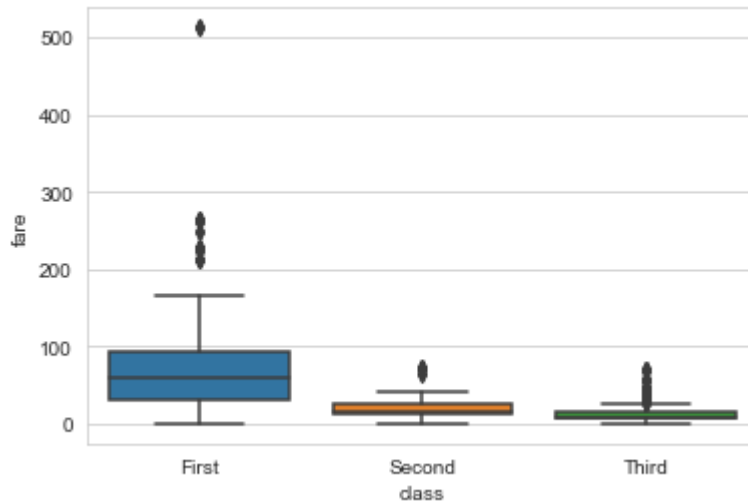


Import library

canvas(baloon board)

```
In [1]: import seaborn as sns
sns.set_style(style="whitegrid")
kashti=sns.load_dataset("titanic")
sns.boxplot(x="class",y="fare",data=kashti)
```

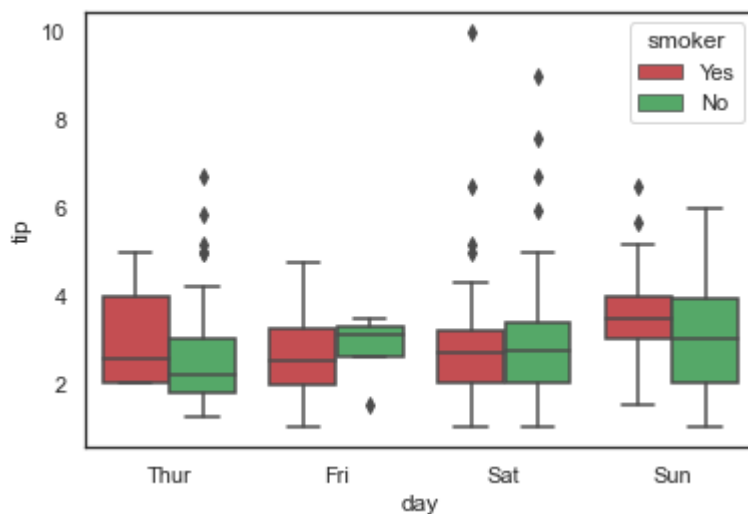
```
Out[1]: <AxesSubplot:xlabel='class', ylabel='fare'>
```



```
In [2]: import seaborn as sns

sns.set(style="white")
tip=sns.load_dataset("tips")
tip
sns.boxplot(x="day",y="tip",hue="smoker", data=tip,palette=['r','g'],saturation=1)
```

```
Out[2]: <AxesSubplot:xlabel='day', ylabel='tip'>
```



```
In [3]: import seaborn as sns
```

```
import pandas as pd
import numpy as ny

tip=sns.load_dataset("tips")
tip.describe()
```

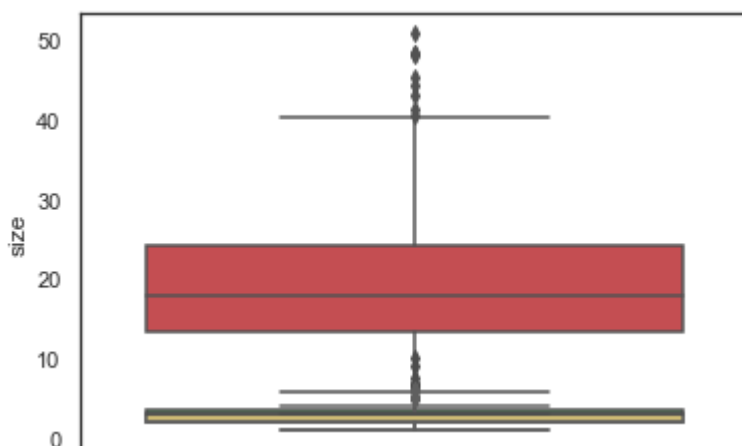
Out[3]:

	total_bill	tip	size
count	244.000000	244.000000	244.000000
mean	19.785943	2.998279	2.569672
std	8.902412	1.383638	0.951100
min	3.070000	1.000000	1.000000
25%	13.347500	2.000000	2.000000
50%	17.795000	2.900000	2.000000
75%	24.127500	3.562500	3.000000
max	50.810000	10.000000	6.000000

In [4]:

```
import seaborn as sns
tip=sns.load_dataset("tips")
sns.boxplot(y=tip["total_bill"],color='r',saturation=1)
sns.boxplot(y=tip["tip"],color='g',saturation=1)
sns.boxplot(y=tip["size"],color='y',saturation=1)
```

Out[4]: <AxesSubplot:ylabel='size'>

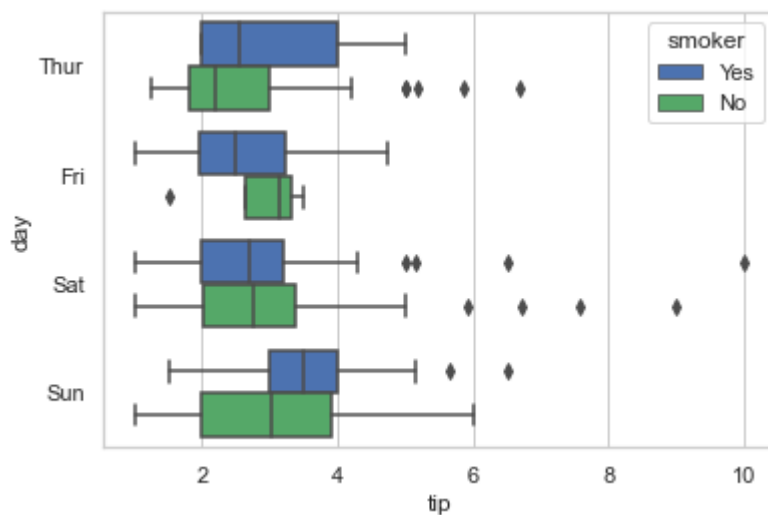


In [5]:

```
import seaborn as sns
sns.set(style="whitegrid")
tip=sns.load_dataset("tips")

sns.boxplot(x="tip",y="day",hue="smoker", data=tip, palette=("b","g"),saturation=1,dodg
```

Out[5]: <AxesSubplot:xlabel='tip', ylabel='day'>



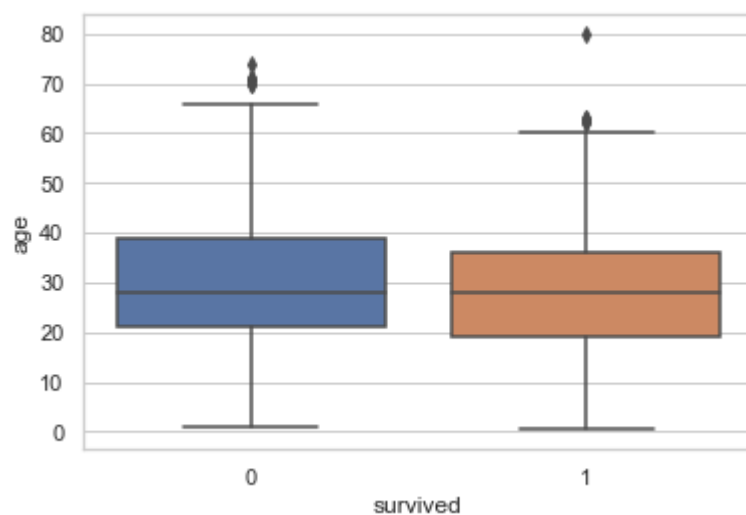
```
In [6]: import seaborn as sns
import pandas as pd
import numpy as np
import matplotlib.pyplot as plt

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

```
Out[6]:
```

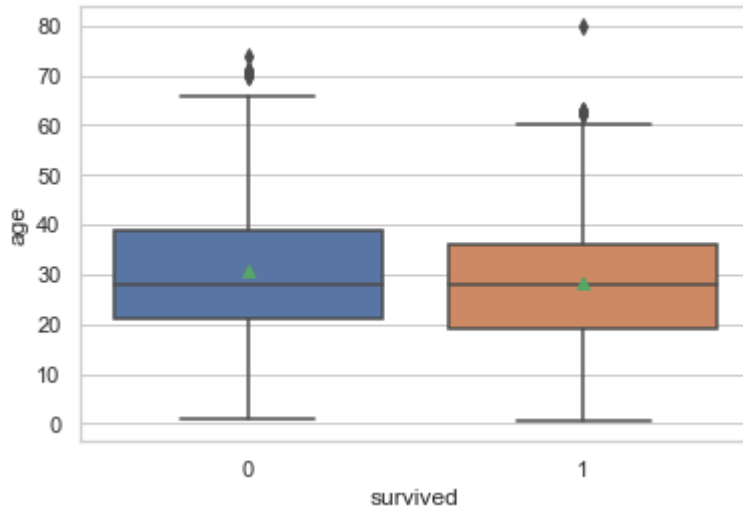
	survived	pclass	sex	age	sibsp	parch	fare	embarked	class	who	adult_male	deck	e
0	0	3	male	22.0	1	0	7.2500	S	Third	man	True	NaN	5
1	1	1	female	38.0	1	0	71.2833	C	First	woman	False	C	5
2	1	3	female	26.0	0	0	7.9250	S	Third	woman	False	NaN	5
3	1	1	female	35.0	1	0	53.1000	S	First	woman	False	C	5
4	0	3	male	35.0	0	0	8.0500	S	Third	man	True	NaN	5

```
In [7]: sns.boxplot(x="survived",y="age",data=kashti)
plt.show()
```



```
In [8]: import seaborn as sns
import pandas as pd
import numpy as np
import matplotlib.pyplot as plt

kashti=sns.load_dataset("titanic")
kashti.head()
p1=sns.boxplot(x="survived",y="age",showmeans=True,data=kashti)
plt.show()
```



```
In [9]: import seaborn as sns
import pandas as pd
import numpy as np
import matplotlib.pyplot as plt

kashti=sns.load_dataset("titanic")

p1=sns.boxplot(x="survived",
               y="age",
               showmeans=True,
               meanprops={"marker":"^",
                           "markersize":"14",
                           "markeredgcolor":"red"},
               data=kashti)
plt.xlabel("How many survived",size=15,weight="bold")
plt.ylabel("Age(years)",size=15,weight="bold")
plt.title("Box plot of kitnay doobay or kitnay bachgay",size=15,weight="bold")

plt.show()
```



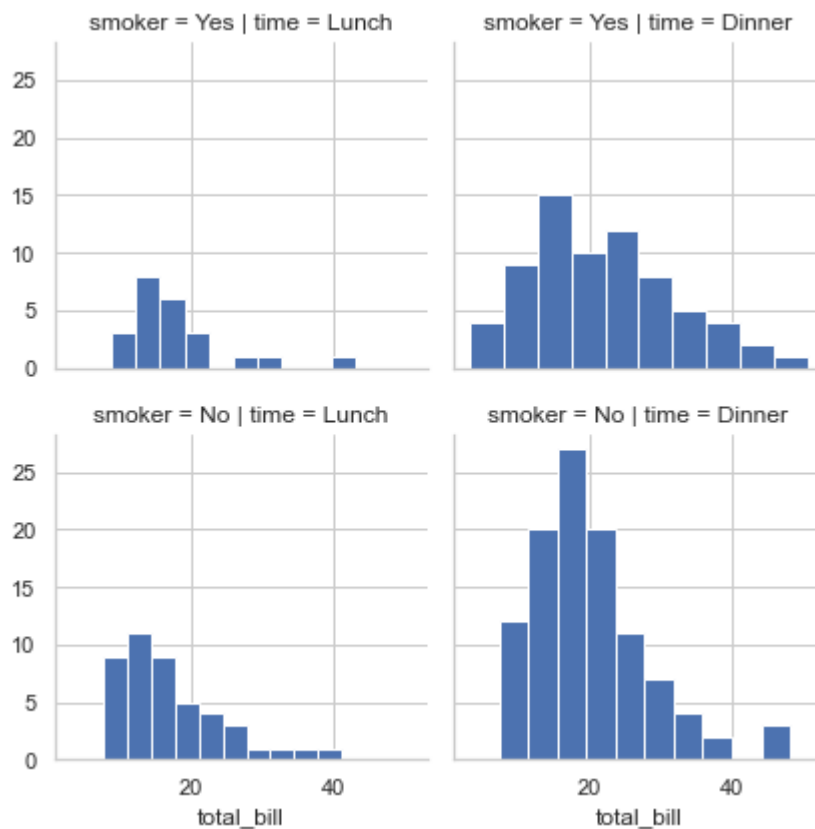
facet plot and facet wrap

In [10]:

```
import seaborn as sns
import pandas as pd
import numpy as np
import matplotlib.pyplot as plt

tip=sns.load_dataset("tips")
tip.describe()

g = sns.FacetGrid(data=tip, col="time", row="smoker")
g = g.map(plt.hist, "total_bill")
plt.show()
```



```
In [43]: import seaborn as sns
import pandas as pd
import numpy as np
import matplotlib.pyplot as plt
chilla=pd.read_csv("data_viz.csv")
chilla.head()
```

```
Out[43]:
```

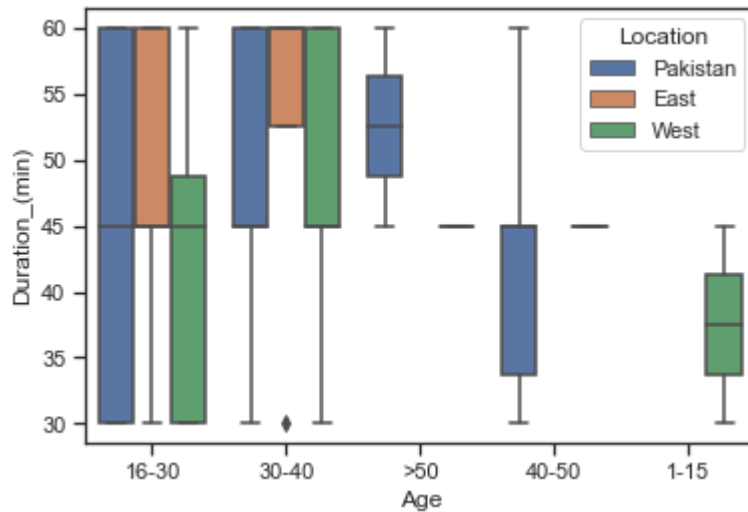
	Timestamp	Gender	Age	Location	Time_of_class(pm)	Duration_(min)
0	1/3/2022 19:09:29	Male	16-30	Pakistan	10:30	60
1	1/3/2022 19:09:33	Male	16-30	Pakistan	10:00	60
2	1/3/2022 19:09:33	Male	16-30	Pakistan	10:00	30
3	1/3/2022 19:09:33	Male	30-40	Pakistan	09:30	30
4	1/3/2022 19:09:34	Male	16-30	East	09:30	60

```
In [52]: # step-1 import library
import seaborn as sns
import pandas as pd
import numpy as np
import matplotlib.pyplot as plt

#step-2 import data from file

chilla=pd.read_csv("data_viz.csv")
```

```
p=sns.boxplot(x="Age",y="Duration_(min)",hue="Location",data=chilla)
plt.show()
```

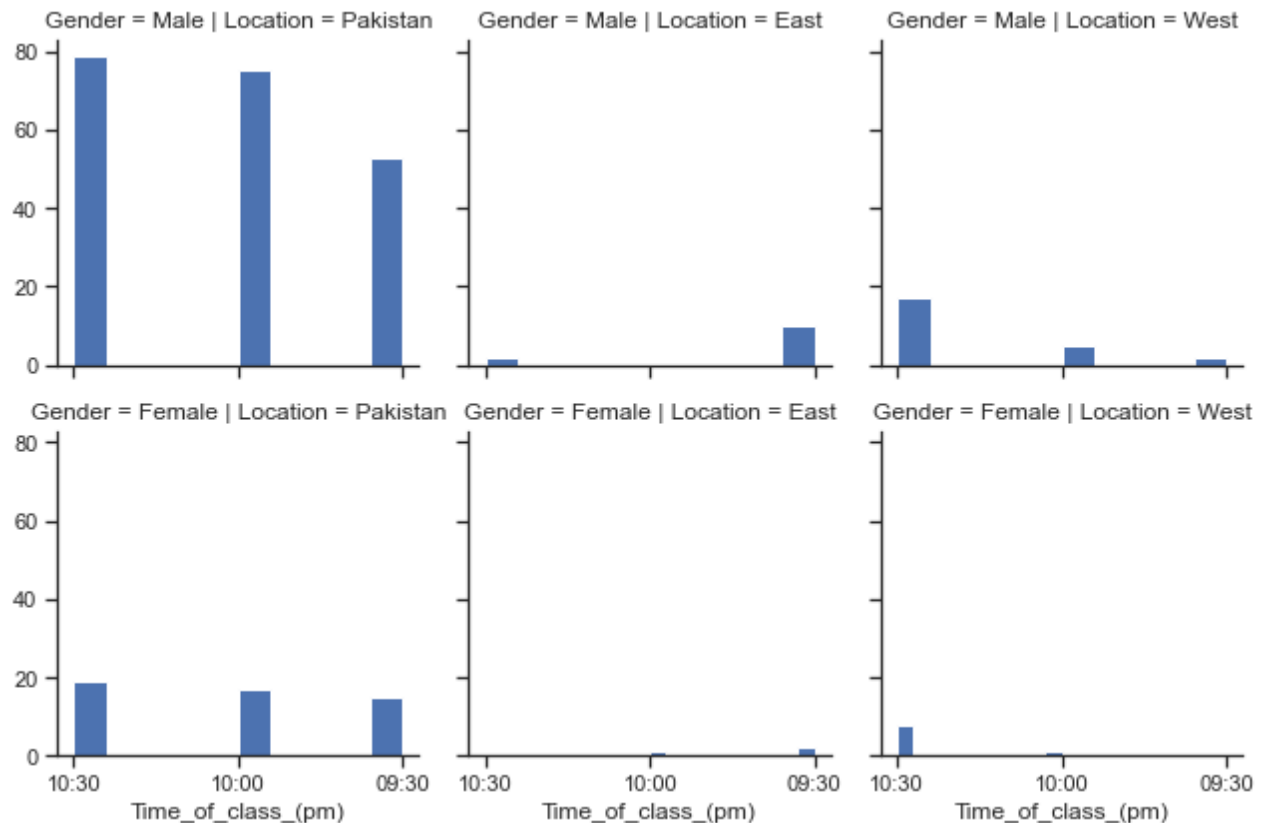


In [62]:

```
import seaborn as sns
import pandas as pd
import numpy as ny
import matplotlib.pyplot as plt

chilla=pd.read_csv("data_viz.csv")

g = sns.FacetGrid(data=chilla, col= "Location" , row="Gender")
g = g.map(plt.hist, "Time_of_class_(pm)")
plt.show()
```



In []:

