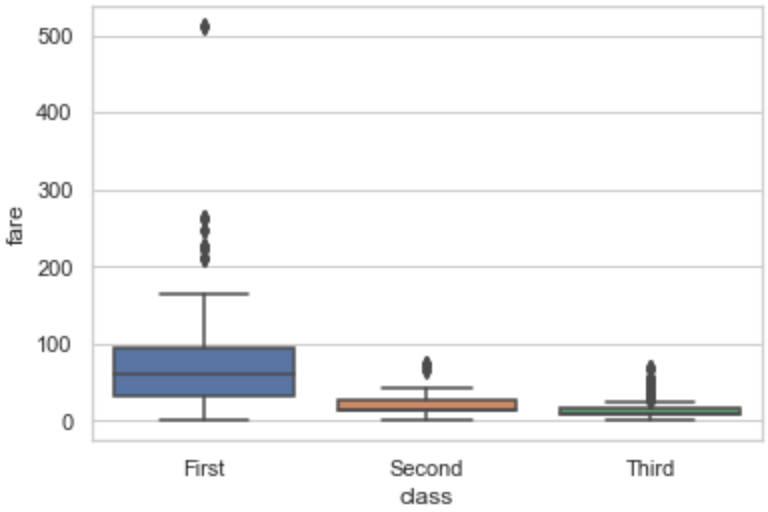
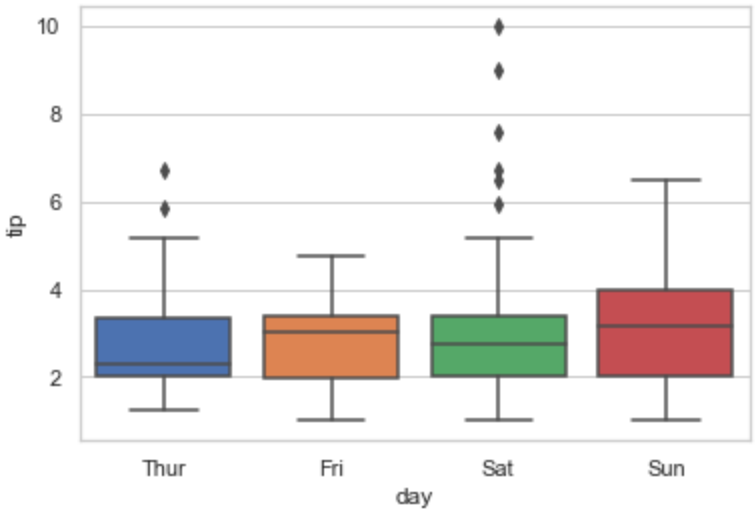
In [1]:
```
#import library
import seaborn
#canvas (Baloon Board)
seaborn.set(style='whitegrid')
#
kashti = seaborn.load_dataset("titanic")
#boxplot has quartiles
seaborn.boxplot(x="class", y="fare", data=kashti)
```

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




In [2]:
```
#import library
import seaborn

#canvas (Baloon Board)
seaborn.set(style='whitegrid')
# importing new data tips
tip = seaborn.load_dataset("tips")
tip
#boxplot has quartiles
seaborn.boxplot(x="day", y="tip", data=tip, saturation=1)
```

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



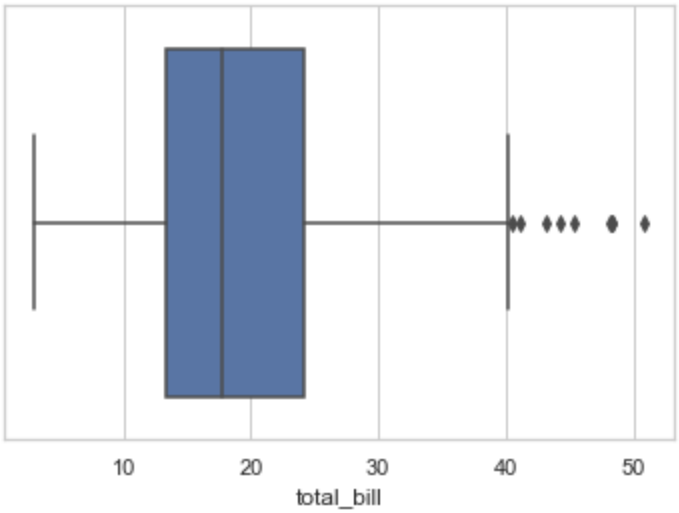
In [3]:
```
#import library
import seaborn as sns
import pandas as pf
import numpy as np

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

#tip.describe only describes nmeric values and not the catgorical values
#categorical values are describes in hue
```

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 |

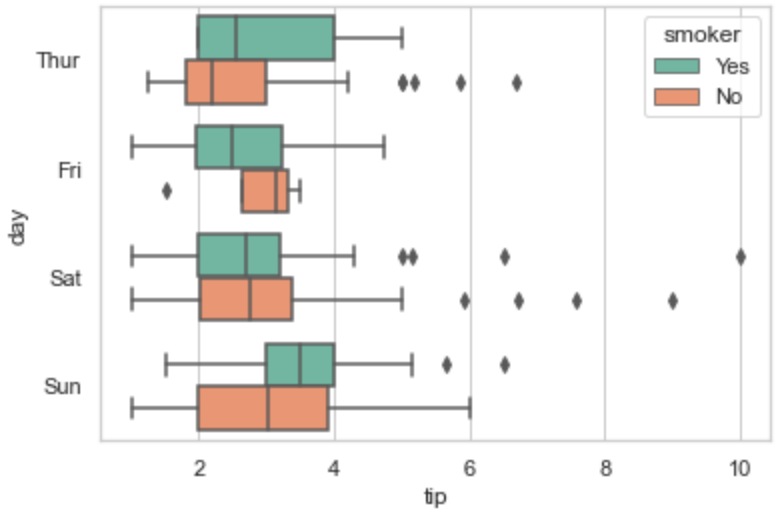
In [4]:
```
#importing the required module
import seaborn as sns

#use to set style of background of plot
seaborn.set(style="whitegrid")

#loading data-set

tip = sns.load_dataset("tips")

sns. boxplot(x=tip['total_bill'])
```

Out[4]: <AxesSubplot:xlabel='total_bill'>



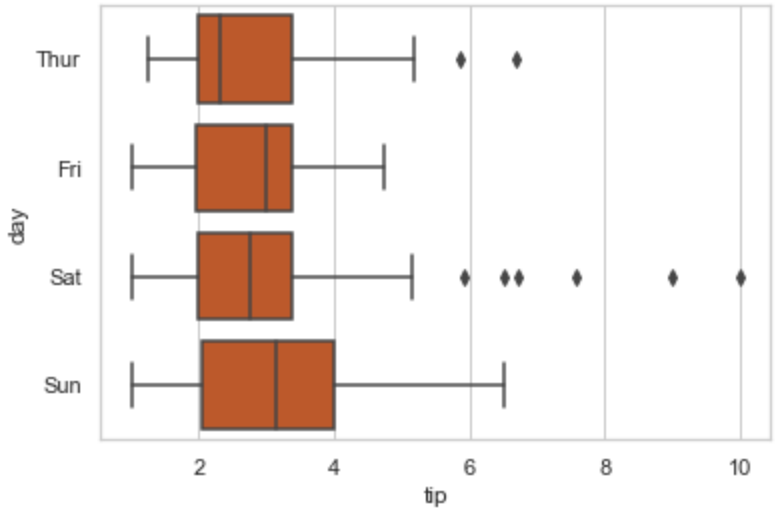
In [5]:
```
#importing the required module
import seaborn as sns

#use to set style of background of plot
sns.set(style="whitegrid")

#loading data-set

tip = sns.load_dataset("tips")

sns. boxplot(x="tip", y="day", hue="smoker", data=tip, palette="Set2", dodge=True)
```

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




In [6]:
```
import seaborn as sns

sns.set(style='whitegrid')
tip = sns.load_dataset('tips')

sns.boxplot(x='tip', y='day', data=tip, color="#d45013")

#Use hex
```

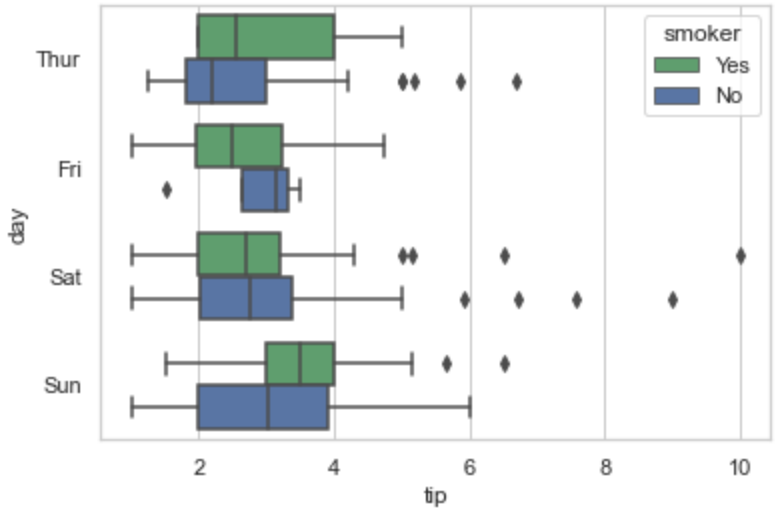
Out[6]: <AxesSubplot:xlabel='tip', ylabel='day'>



# How to manage individual colors for each hue color

In [7]:
```
#importing the required module
import seaborn as sns

#use to set style of background of plot
sns.set(style="whitegrid")

#loading data-set

tip = sns.load_dataset("tips")

sns. boxplot(x="tip", y="day", hue="smoker", data=tip, palette=["C2","C0"], dodge=True)
```

Out[7]: <AxesSubplot:xlabel='tip', ylabel='day'>



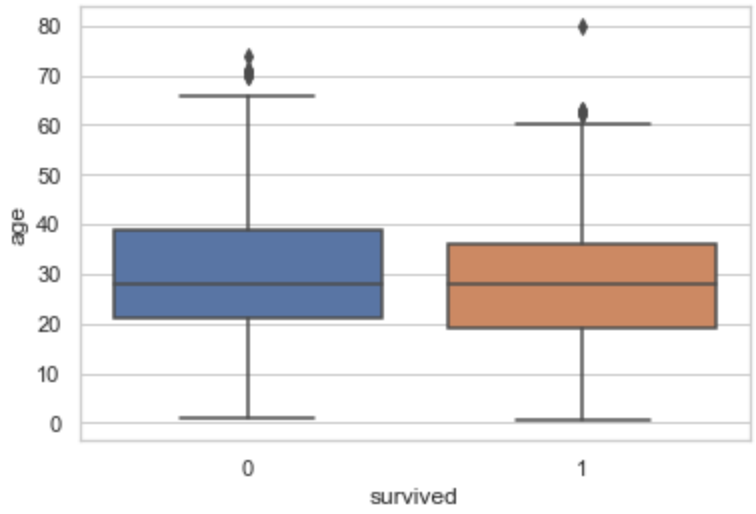

In [8]:
```
import seaborn as sns
import pandas as pd
import numpy as np

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

Out[8]:

| | survived | pclass | sex | age | sibsp | parch | fare | embarked | class | who | adult_male | deck | em |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **0** | 0 | 3 | male | 22.0 | 1 | 0 | 7.2500 | S | Third | man | True | NaN | Sc |
| **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 | Sc |
| **3** | 1 | 1 | female | 35.0 | 1 | 0 | 53.1000 | S | First | woman | False | C | Sc |
| **4** | 0 | 3 | male | 35.0 | 0 | 0 | 8.0500 | S | Third | man | True | NaN | Sc |

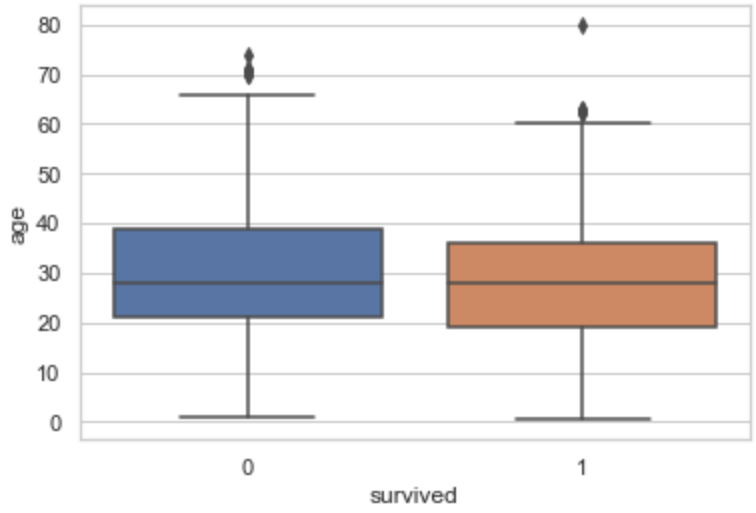
In [9]:
```
sns.boxplot(x="survived", y="age", data=kashti)
```

Out[9]: <AxesSubplot:xlabel='survived', ylabel='age'>



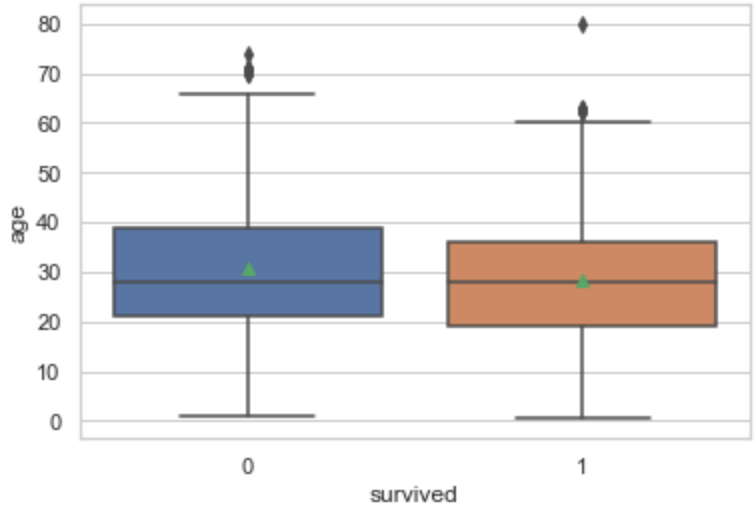

In [10]:
```
import seaborn as sns
import pandas as pd
import numpy as np

kashti = sns.load_dataset("titanic")
sns.boxplot(x="survived", y="age", data=kashti)
```

Out[10]: <AxesSubplot:xlabel='survived', ylabel='age'>

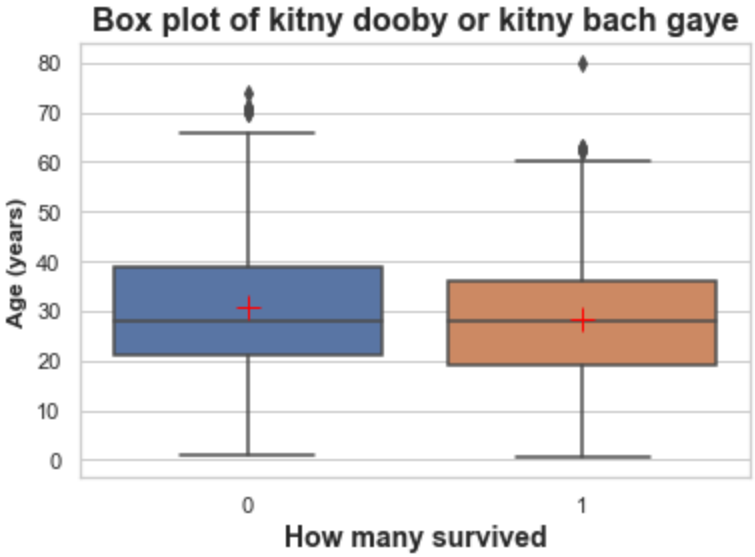



In [11]:
```
sns.boxplot(x="survived", y="age", data=kashti, showmeans=True)
```

Out[11]: <AxesSubplot:xlabel='survived', ylabel='age'>




In [17]:
```
import seaborn as sns
import pandas as pd
import numpy as np
import matplotlib.pyplot as plt

kashti = sns.load_dataset("titanic")

sns.boxplot(x="survived", y="age",showmeans=True,
            meanprops= {"marker": "+",
                        "markersize": "12",
                        "markeredgecolor": "red"}, data=kashti)

plt.xlabel("How many survived", size=14, weight="bold"),
plt.ylabel("Age (years)", size=12, weight="bold"),
plt.title("Box plot of kitny dooby or kitny bach gaye", size =16, weight="bold")

plt.show()
```




# facet wrap and facet grid?