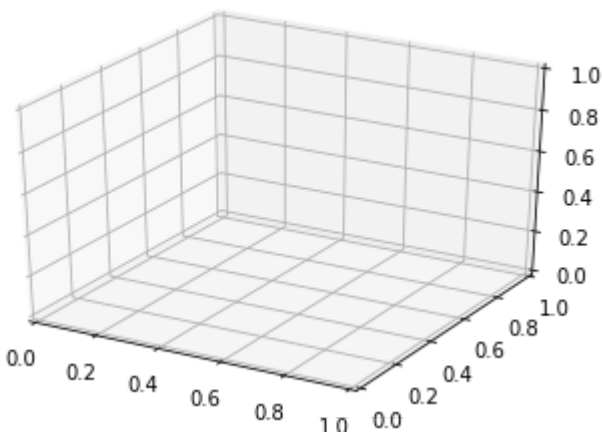


```
In [1]: from mpl_toolkits.mplot3d import Axes3D
import numpy as np
import pandas as pd
import matplotlib.pyplot as plt
%matplotlib inline
```

```
In [2]: fig = plt.figure()
ax = plt.axes(projection = '3d')
```



```
In [3]: from sklearn import datasets
```

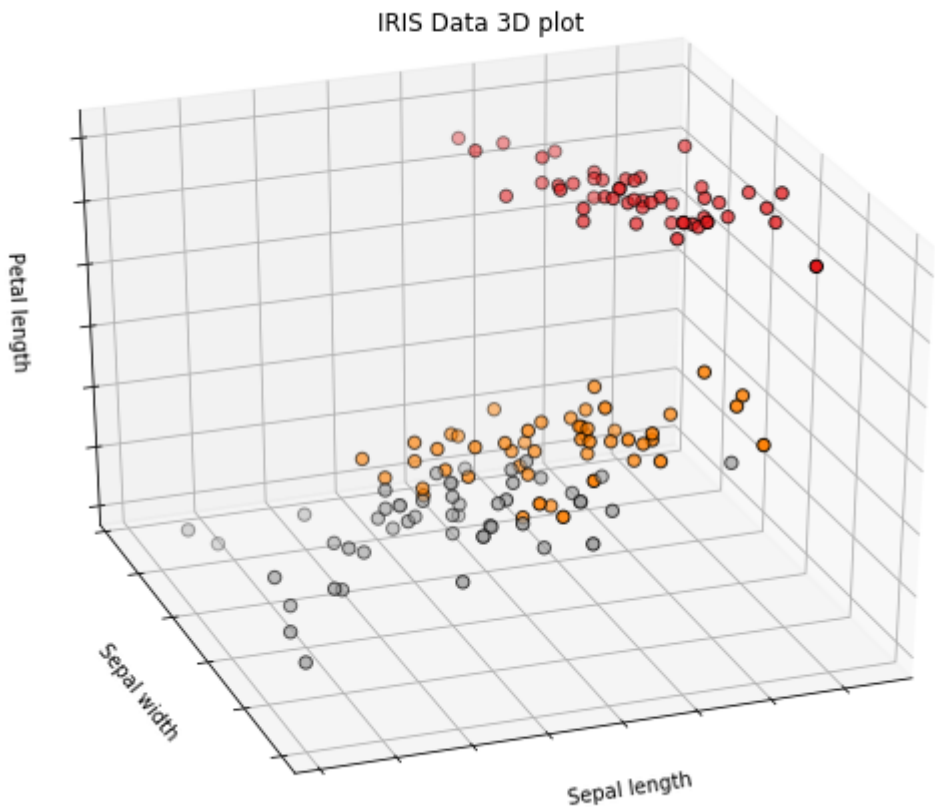
```
In [4]: iris = datasets.load_iris()
```

```
In [5]: X = iris.data
y = iris.target
```

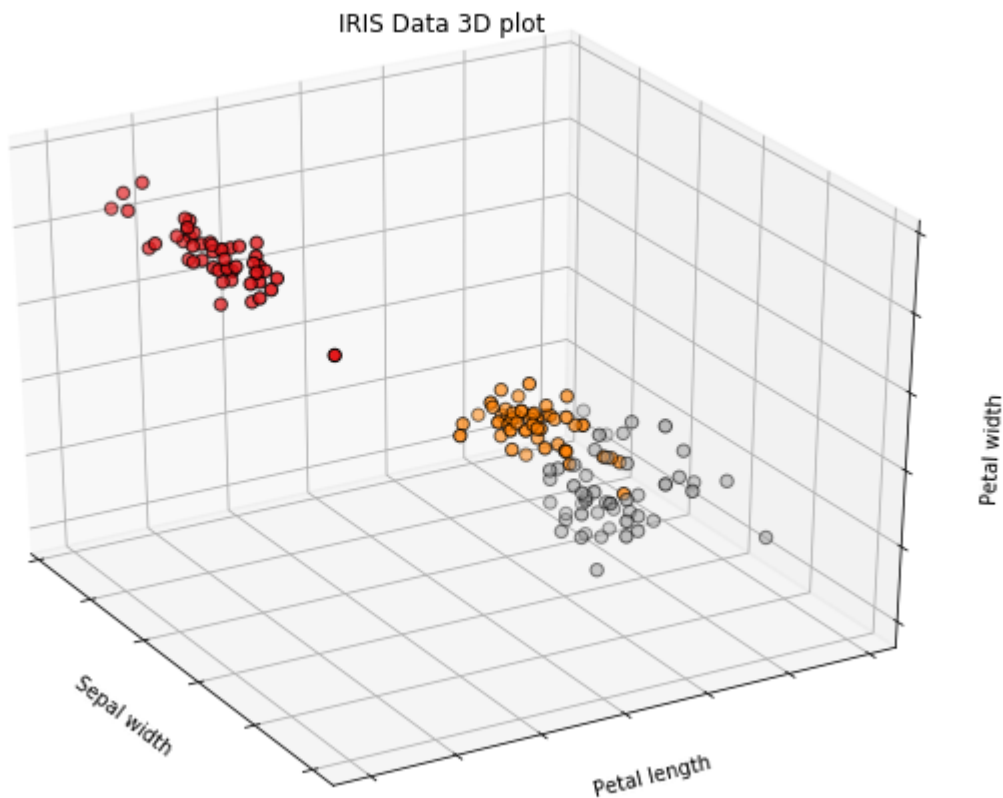
```
In [6]: X[:5]
```

```
Out[6]: array([[5.1, 3.5, 1.4, 0.2],
               [4.9, 3. , 1.4, 0.2],
               [4.7, 3.2, 1.3, 0.2],
               [4.6, 3.1, 1.5, 0.2],
               [5. , 3.6, 1.4, 0.2]])
```

```
In [7]: fig = plt.figure(1, figsize=(8, 6))
ax = Axes3D(fig, elev=-150, azimuth=110)
ax.scatter(X[:, 0], X[:, 1], X[:, 2], c=y, cmap=plt.cm.Set1, edgecolor='k', s=40)
ax.set_title("IRIS Data 3D plot")
ax.set_xlabel("Sepal length")
ax.w_xaxis.set_ticklabels([])
ax.set_ylabel("Sepal width")
ax.w_yaxis.set_ticklabels([])
ax.set_zlabel("Petal length")
ax.w_zaxis.set_ticklabels([])
plt.show()
```



```
In [8]: fig = plt.figure(1, figsize=(8, 6))
ax = Axes3D(fig, elev=-150, azimuth=30)
ax.scatter(X[:, 1], X[:, 2], X[:, 3], c=y, cmap=plt.cm.Set1, edgecolor='k', s=40)
ax.set_title("IRIS Data 3D plot")
ax.set_xlabel("Sepal width")
ax.w_xaxis.set_ticklabels([])
ax.set_ylabel("Petal length")
ax.w_yaxis.set_ticklabels([])
ax.set_zlabel("Petal width")
ax.w_zaxis.set_ticklabels([])
plt.show()
```



```
In [ ]:
```