iris data into 3 dimensions

In [75]:

```
#import packages
import numpy as np
import matplotlib.pyplot as plt
from mpl_toolkits.mplot3d import Axes3D
from sklearn.decomposition import PCA
from sklearn import datasets
```

In [76]:

```
#import dataset
iris= datasets.load_iris()
iris.data
Out[76]:
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],
       [5.4, 3.9, 1.7, 0.4],
       [4.6, 3.4, 1.4, 0.3],
       [5., 3.4, 1.5, 0.2],
       [4.4, 2.9, 1.4, 0.2],
       [4.9, 3.1, 1.5, 0.1],
       [5.4, 3.7, 1.5, 0.2],
       [4.8, 3.4, 1.6, 0.2],
       [4.8, 3., 1.4, 0.1],
       [4.3, 3., 1.1, 0.1],
       [5.8, 4., 1.2, 0.2],
       [5.7, 4.4, 1.5, 0.4],
       [5.4, 3.9, 1.3, 0.4],
```

In [77]:

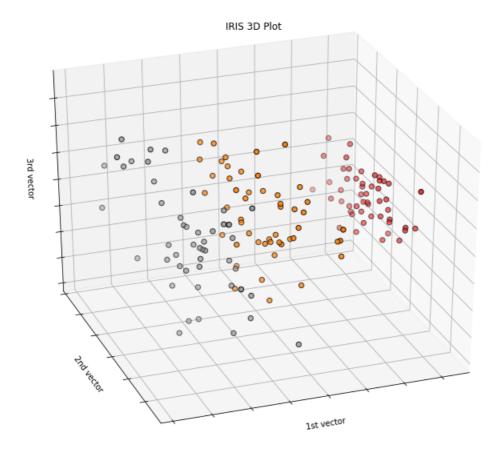
```
print (iris.feature_names)
print (iris.target_names)

['sepal length (cm)', 'sepal width (cm)', 'petal length (cm)', 'petal width (cm)']
['setosa' 'versicolor' 'virginica']

In [91]:
```

Plot 3D with the first two features.

In [95]:



In []: