

```
from sklearn import datasets
import matplotlib.pyplot as plt
```

```
dataset = datasets.load_iris()
```

```
X = dataset.data
y = dataset.target
names = dataset.target_names
print(X)
print(y)
print(names)
```

[illegible]

```
from sklearn.decomposition import PCA
model = PCA(n_components=2) # number of components to keep
y_means = model.fit(X).transform(X)
```

Variance Percentage

```
plt.figure()
colors = ['red', 'green', 'orange']

for color, i, target_name in zip(colors, [0, 1, 2], names):
    plt.scatter(y_means[y==i, 0], y_means[y==i, 1], color=color, lw=2, label=target_name)
plt.title('IRIS Clusterring')
plt.show()
```



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