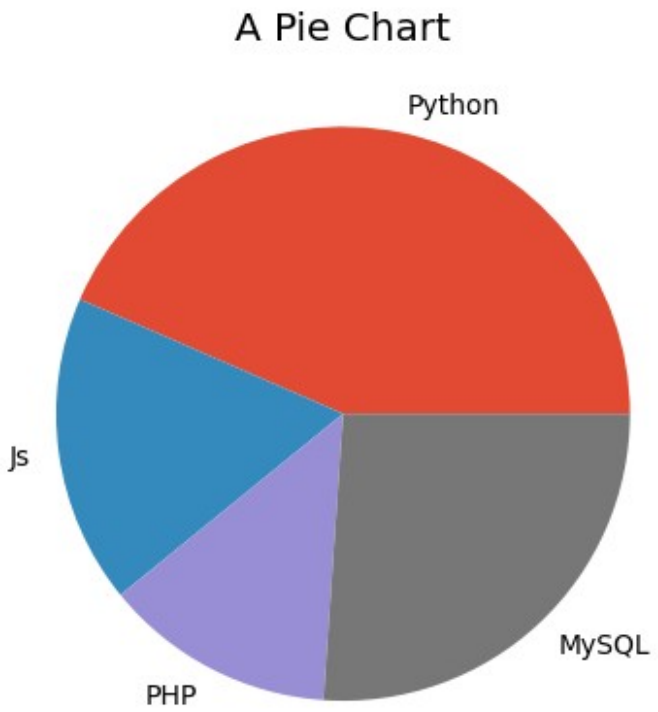
```
import numpy as np
import matplotlib.pyplot as plt

# Use The Following Command To Make The Chart Inline The Notebook
%matplotlib inline

# Change The Style Of The Graph
plt.style.use("ggplot")
```

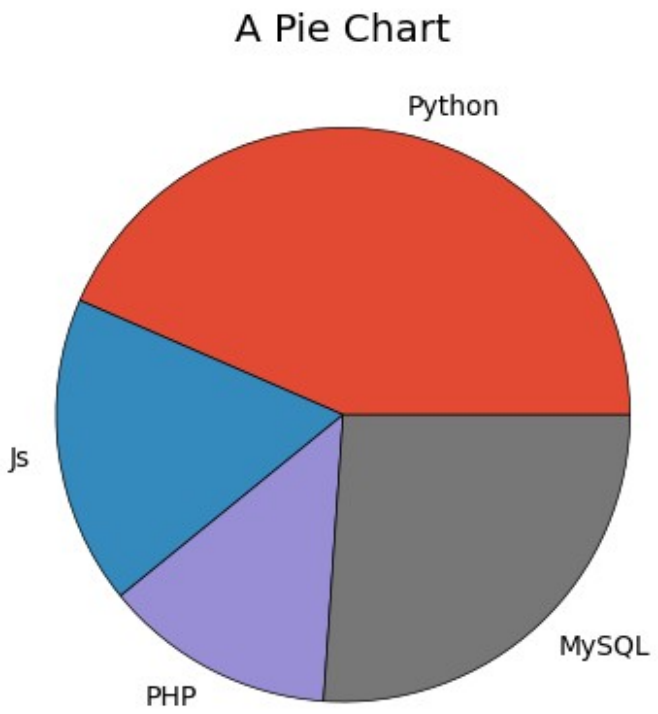
Pie Charts

```
data = [50, 20, 15, 30]
labels = ["Python", "Js", "PHP", "MySQL"]

# Make Pie Chart Graph
plt.pie(data, labels=labels)

plt.title("A Pie Chart")
plt.show()
```



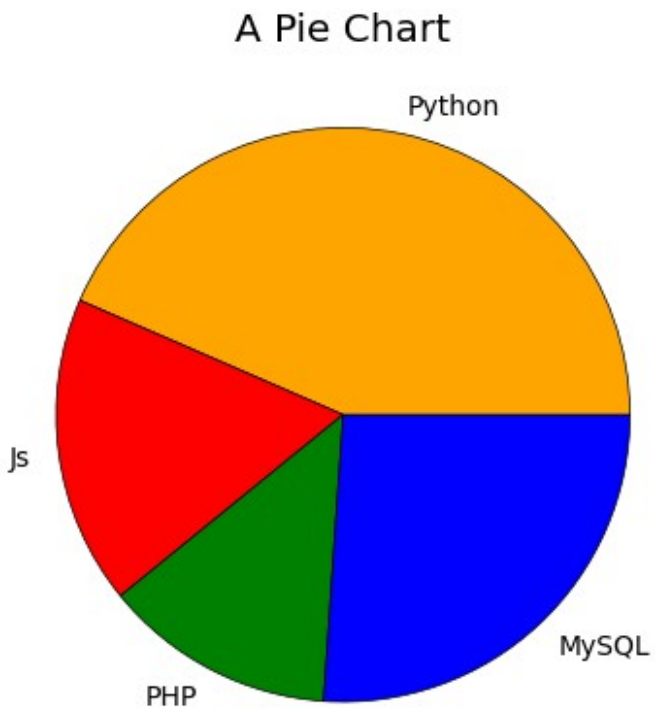
Change The Color Of Edges

```
data = [50, 20, 15, 30]
labels = ["Python", "Js", "PHP", "MySQL"]

# Change The Color Of Edge
# Make Pie Chart Graph
plt.pie(data, labels=labels, wedgeprops={"edgecolor": "black"})

plt.title("A Pie Chart")
plt.show()
```



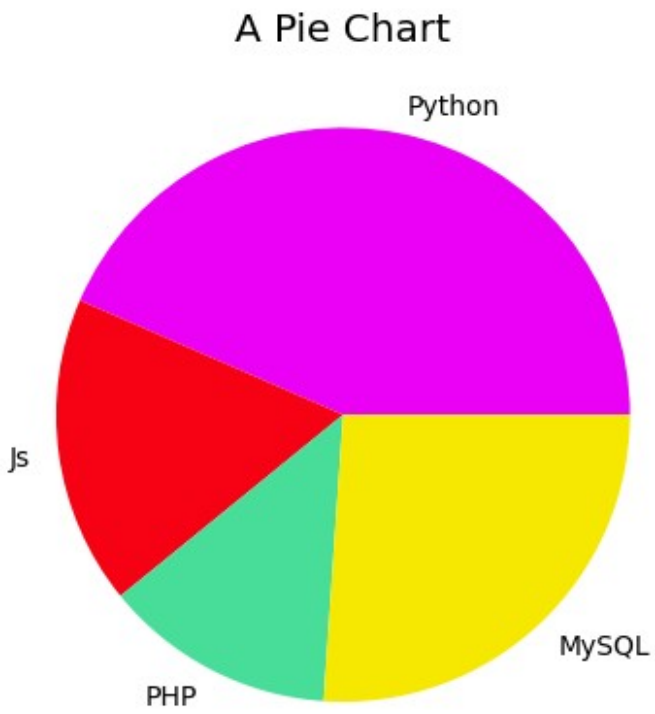
Change The Color Of Each Elemenet

```
data = [50, 20, 15, 30]
labels = ["Python", "Js", "PHP", "MySQL"]

# Change The Color Of Each Element By Using Hexadecimal values
colors = ["orange", "red", "green", 'blue']
plt.pie(data, labels=labels, colors=colors, wedgeprops={"edgecolor":
"#000"})

plt.title("A Pie Chart")
plt.show()
```



Change The Color Of Each Elemenet Using Hexadeciamal Values

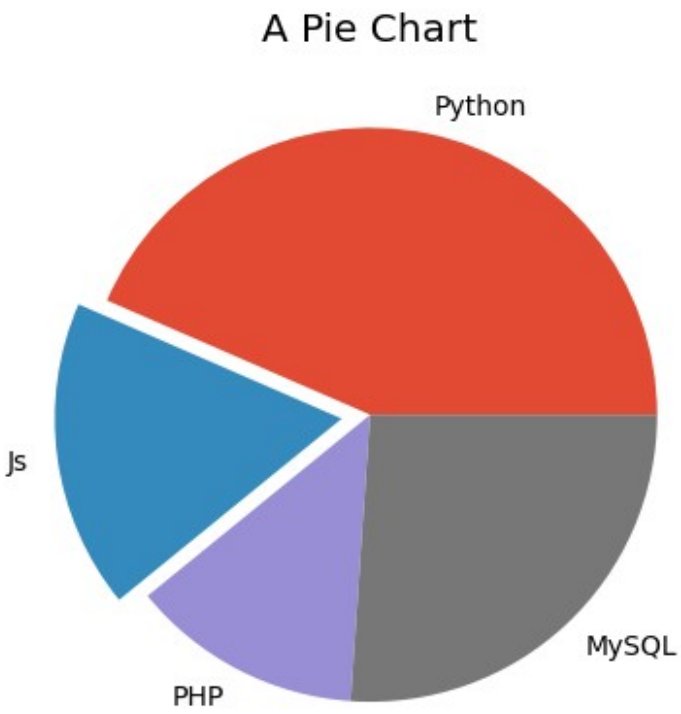
```
data = [50, 20, 15, 30]
labels = ["Python", "Js", "PHP", "MySQL"]

# Change The Color Of Each  By Using Hex Values
colors = ["#EC01F7", "#F70114", "#48DD99", '#F7E801']
plt.pie(data, labels=labels, colors=colors)

plt.title("A Pie Chart")
plt.show()
```



Explode An ELement

- maybe you want one of the wedges to stand out? the explode parameter allows you to do that

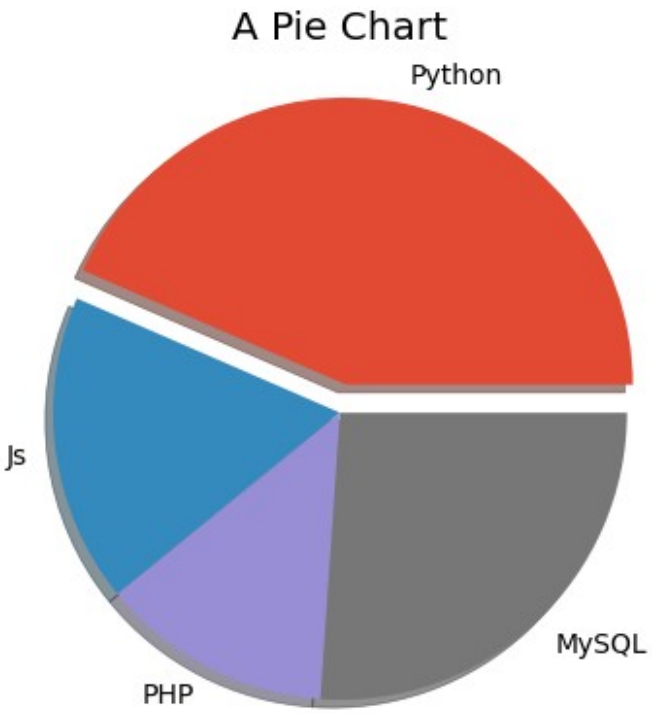
```
data = [50, 20, 15, 30]
labels = ["Python", "Js", "PHP", "MySQL"]

s = [0, 0.1, 0, 0]
plt.pie(data, labels=labels, explode=s)

plt.title("A Pie Chart")
plt.show()
```



Make Shadow To The Pie Chart

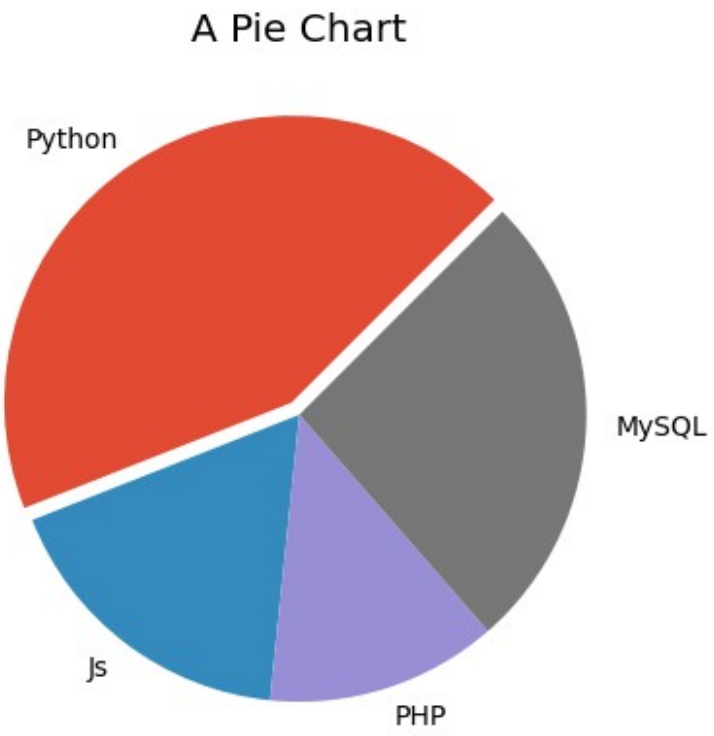
- make shadow to wedges by using the attribute "shadow=True"

```
data = [50, 20, 15, 30]
labels = ["Python", "Js", "PHP", "MySQL"]

x = [0.1, 0, 0, 0]
plt.pie(data, labels=labels, explode=x, shadow=True)

plt.title("A Pie Chart")
plt.show()
```



Determine The Angle That The Chart Will Start From

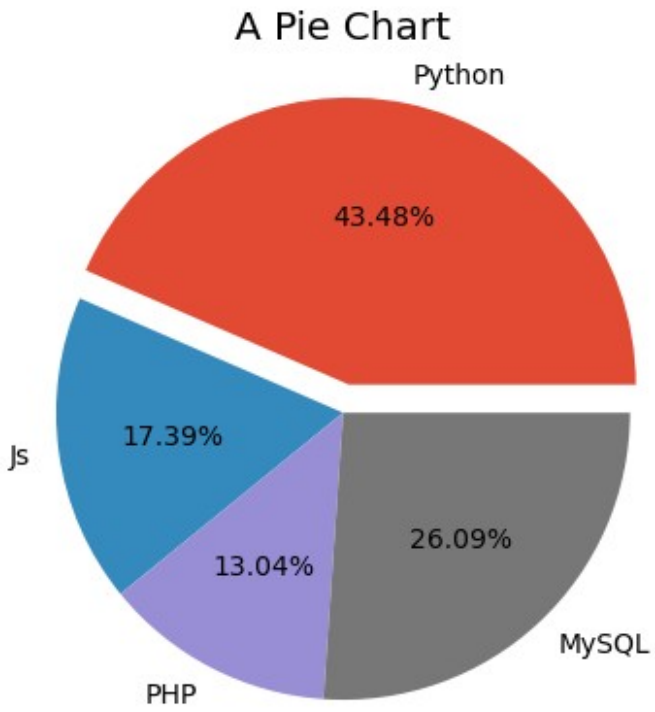
```
data = [50, 20, 15, 30]
labels = ["Python", "Js", "PHP", "MySQL"]

x = [0.05, 0, 0, 0]
plt.pie(data, labels=labels, explode=x, startangle=45)

plt.title("A Pie Chart")
plt.show()
```



Write The Percentage Number To Wedges

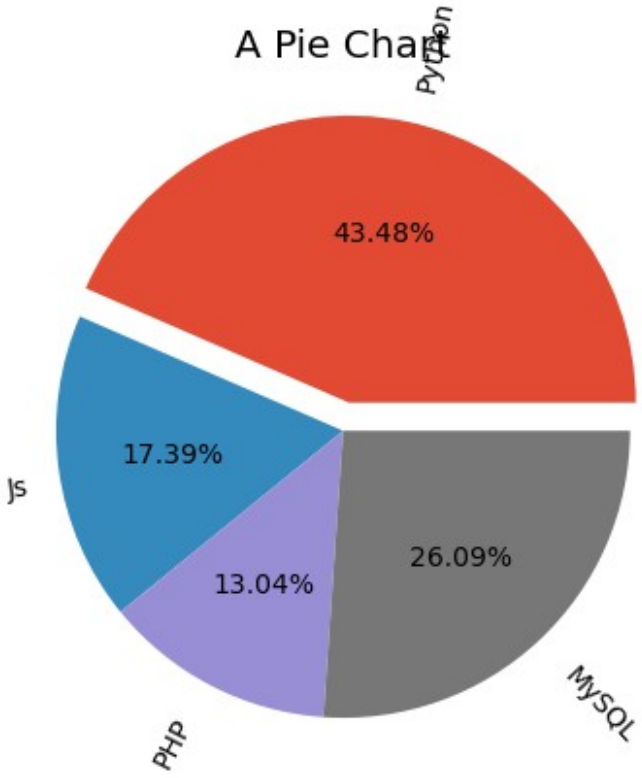
- 0.1f: refers to one point number on the floating number
- 0.2f: referes to two point numbers on the floating number, and so on

```
data = [50, 20, 15, 30]
labels = ["Python", "Js", "PHP", "MySQL"]

x = [0.1, 0, 0, 0]
plt.pie(data, labels=labels, explode=x, autopct="%0.2f%%")

plt.title("A Pie Chart")
plt.show()
```



Rotate The Title Of Each Wedges

```
data = [50, 20, 15, 30]
labels = ["Python", "Js", "PHP", "MySQL"]

x = [0.1, 0, 0, 0]
plt.pie(data, labels=labels, explode=x, autopct="%0.2f%%",
rotatelabels=True)

plt.title("A Pie Chart")
plt.show()
```


A Pie Chart
Python
43.48%
Js
17.39%
PHP
13.04%
MySQL
26.09%