

# Pie Chart

Pie chart is a type of graph in which a circle is divided into sectors. Each sector represents a proportion of a whole.

[http://matplotlib.org/api/pyplot\\_api.html#matplotlib.pyplot.pie](http://matplotlib.org/api/pyplot_api.html#matplotlib.pyplot.pie)  
([http://matplotlib.org/api/pyplot\\_api.html#matplotlib.pyplot.pie](http://matplotlib.org/api/pyplot_api.html#matplotlib.pyplot.pie))

Edward Tufte says *“the only thing worse than a pie chart is several of them.”*

Pie charts in 10 Python Libraries:

<https://blog.algorexhealth.com/2018/03/almost-10-pie-charts-in-10-python-libraries/>  
(<https://blog.algorexhealth.com/2018/03/almost-10-pie-charts-in-10-python-libraries/>)

In [ ]:

```
import matplotlib.pyplot as plt
import pandas as pd
```

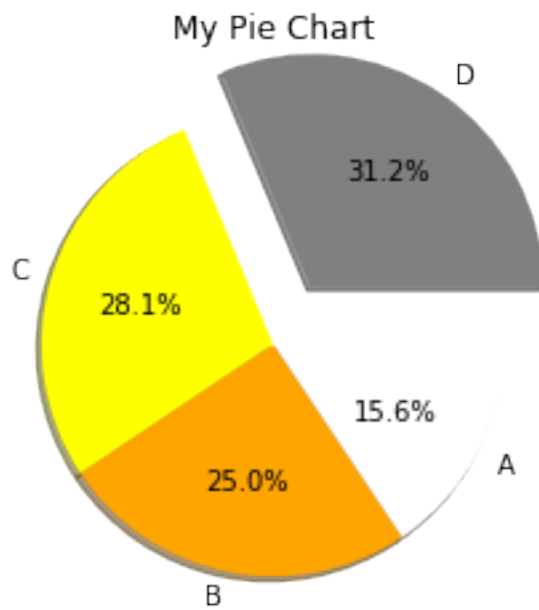
In [35]:

```
values = [5, 8, 9, 10]
colors = ['white', 'orange', 'yellow', 'grey']
labels = ['A', 'B', 'C', 'D']
explode = (0, 0, 0, 0.3)
```

```
plt.pie(values,
        colors=colors,
        labels=labels,
        explode=explode,
        autopct='%1.1f%%',
        counterclock=False,
        shadow=True)
```

```
plt.title('My Pie Chart')
```

```
plt.show()
```



**Minimum required**

In [30]:

```
values = [5, 8, 9, 10]

plt.pie(values)

plt.show()
```



## pandas plot pie

<https://pandas.pydata.org/pandas-docs/stable/reference/api/pandas.DataFrame.plot.pie.html>  
(<https://pandas.pydata.org/pandas-docs/stable/reference/api/pandas.DataFrame.plot.pie.html>)

In [36]:

```
df = pd.DataFrame({'mass': [0.330, 4.87, 5.97],
                   'radius': [2439.7, 6051.8, 6378.1]},
                  index=['Mercury', 'Venus', 'Earth'])

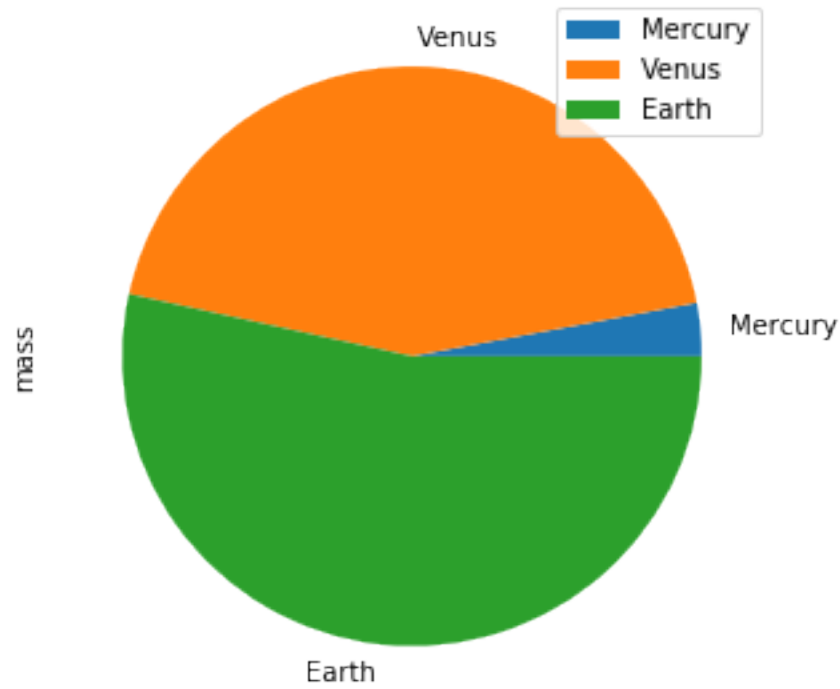
df
```

Out[36]:

	mass	radius
Mercury	0.33	2439.7
Venus	4.87	6051.8
Earth	5.97	6378.1

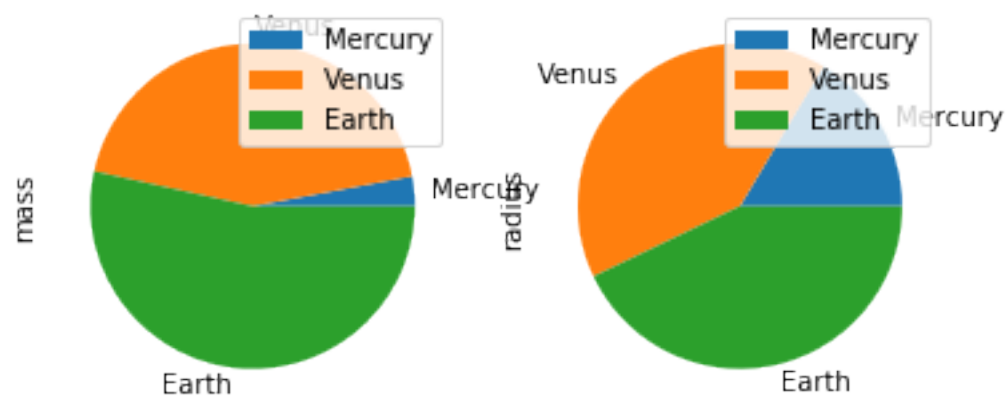
In [37]:

```
#y - Label or position of the column to plot.  
#    If not provided, subplots=True argument must be passed.  
plot = df.plot.pie(y='mass', figsize=(5, 5))
```



In [39]:

```
plot = df.plot.pie(subplots=True, figsize=(6, 3))
```

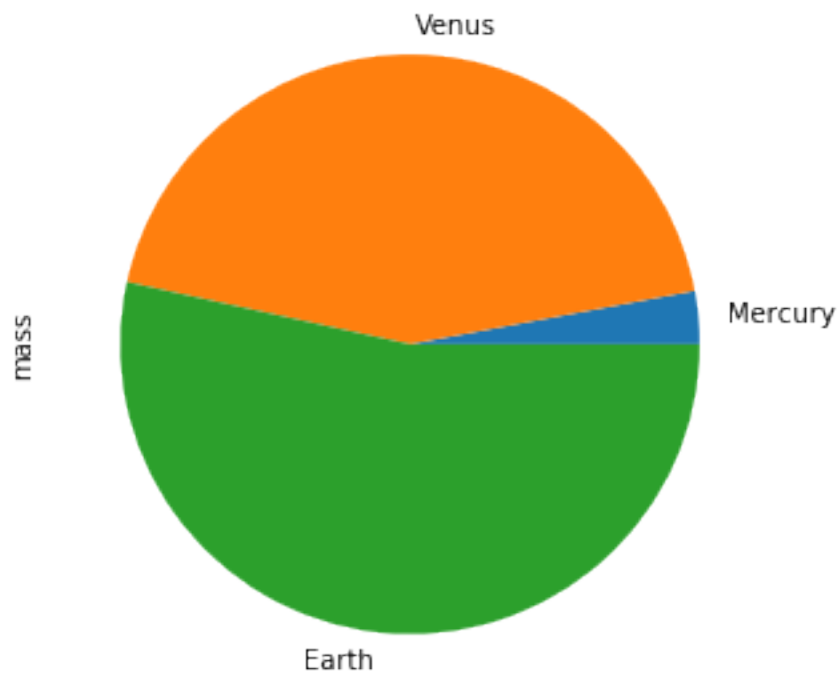


In [38]:

```
df['mass'].plot(kind='pie', figsize=(5, 5))
```

Out[38]:

<matplotlib.axes.\_subplots.AxesSubplot at 0x117e8dd68>



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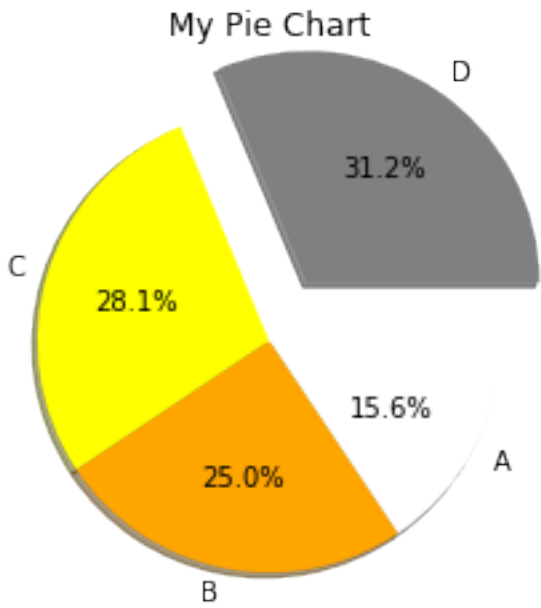
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In [ ]:

In [35]:



## Minimum required

In [30]:



## pandas plot pie

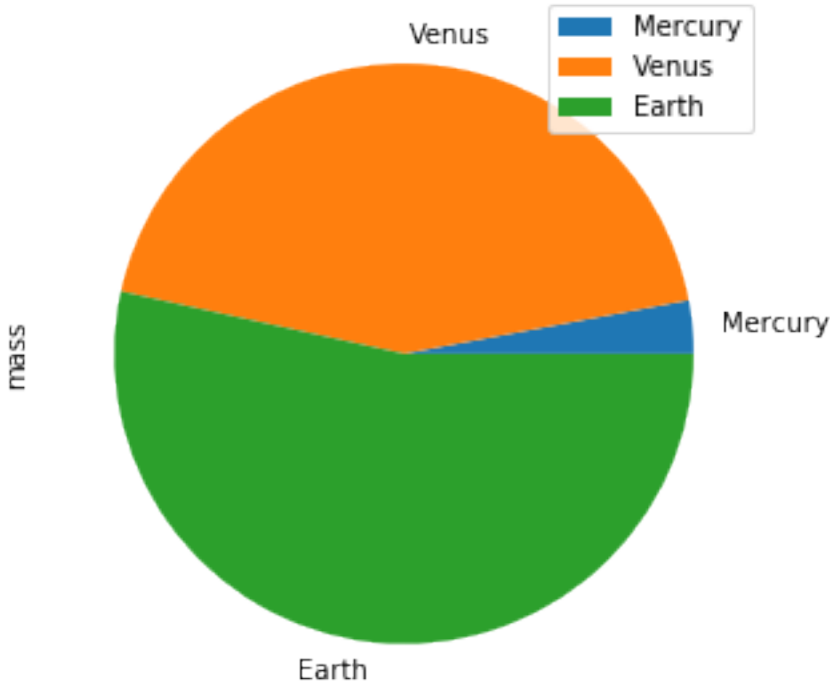
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(<https://pandas.pydata.org/pandas-docs/stable/reference/api/pandas.DataFrame.plot.pie.html>)

In [36]:

Out[36]:

	mass	radius
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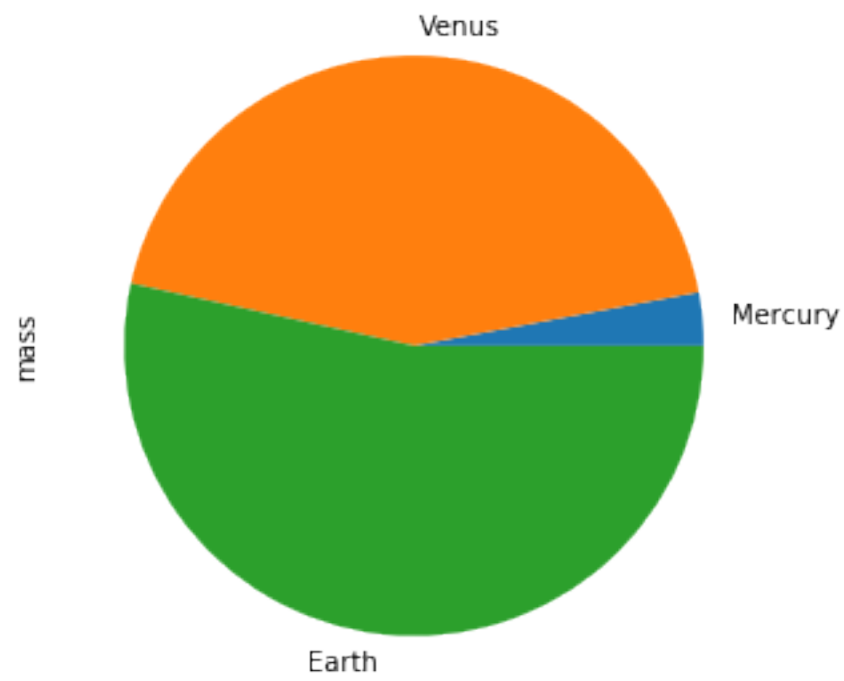
In [37]:



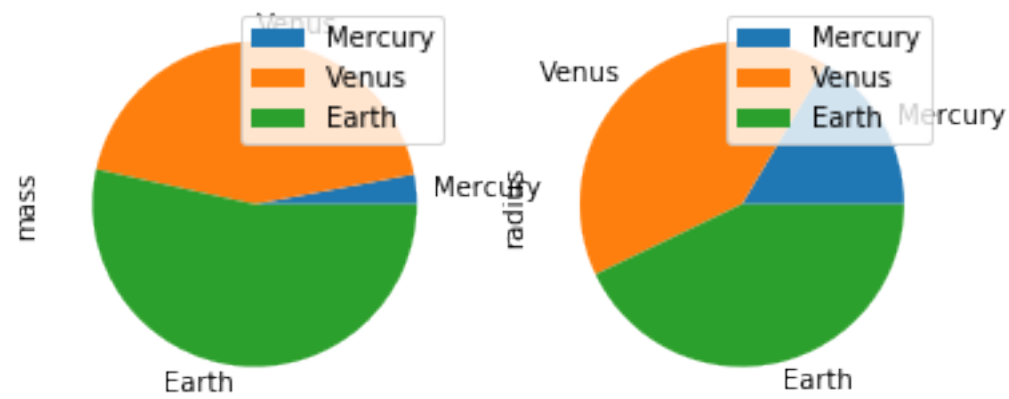
In [38]:

Out[38]:

<matplotlib.axes.\_subplots.AxesSubplot at 0x117e8dd68>



In [39]:



In [ ]: