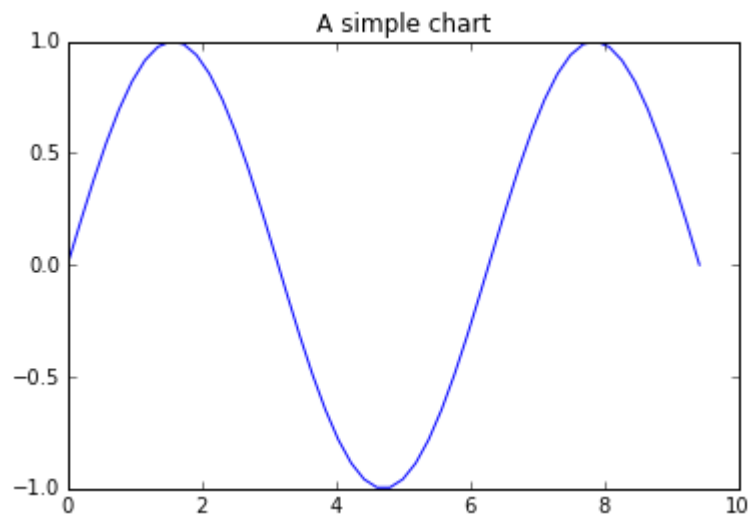


# python繪圖

## matplotlib繪圖

```
In [2]: import numpy as np  
import matplotlib.pyplot as plt  
%matplotlib inline
```

```
In [7]: x = np.linspace(0, 3*np.pi, 50)  
plt.plot(x, np.sin(x))  
plt.title('A simple chart');
```

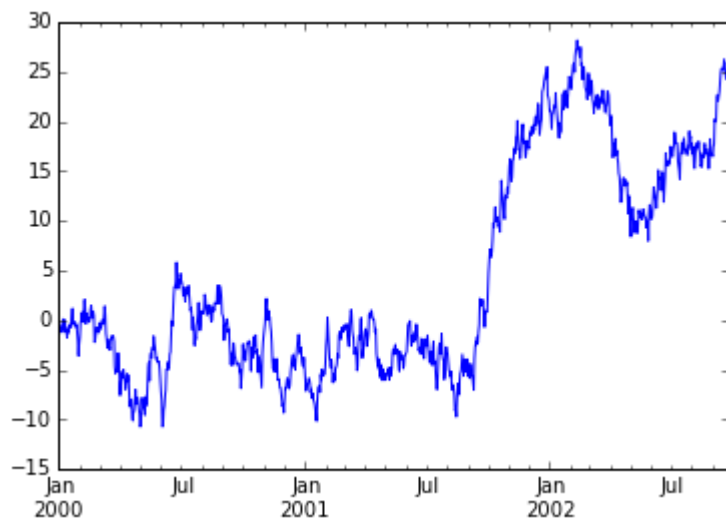


## pandas繪圖功能

```
In [4]: %matplotlib inline
```

```
In [9]: import numpy as np
import pandas as pd
ts = pd.Series(np.random.randn(1000), index=pd.date_range('1/1/2000',
periods=1000))
ts = ts.cumsum()
ts.plot()
```

Out[9]: <matplotlib.axes.\_subplots.AxesSubplot at 0xc41bf28>



In [ ]:

複雜一些：圖形排排站

```
In [9]: # plot 10 images
plt.figure(figsize=(20,10))
plt.suptitle('Charts', fontsize=28)

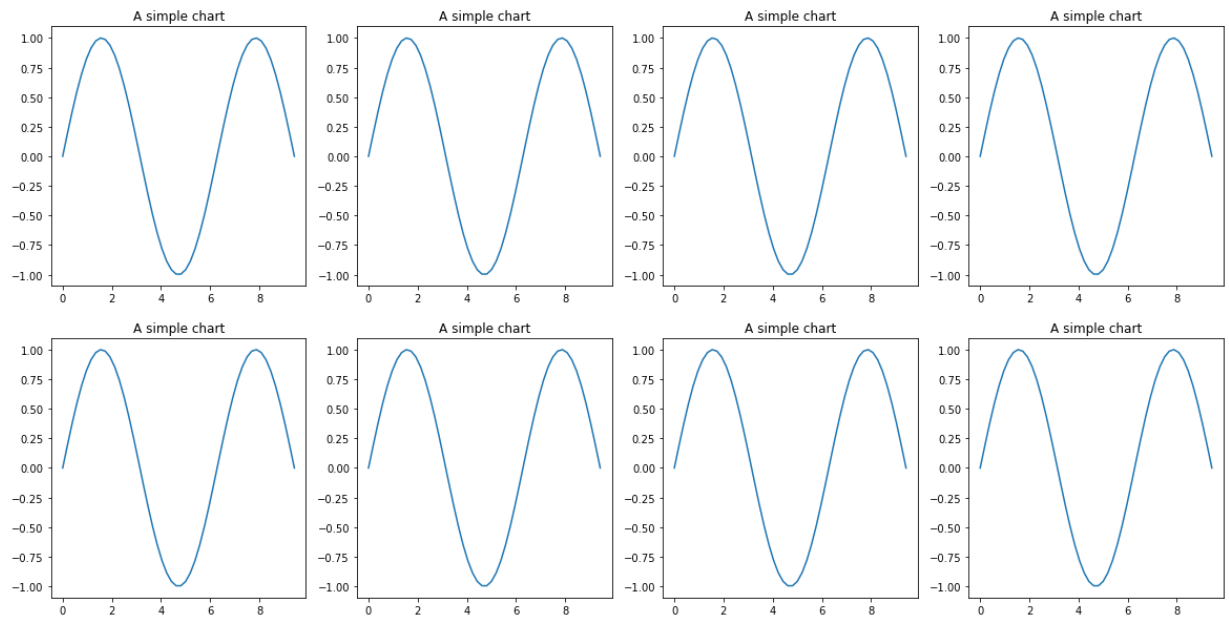
for i in range(8):
    plt.subplot(2, 4, i+1) # 這是甚麼意思? #rows, #columns, ith chart (start
    with 1, not 0)

    #plt.grid(False)
    #plt.imshow( ) # you may open an photo to show

    x = np.linspace(0, 3*np.pi, 50)
    plt.plot(x, np.sin(x))
    plt.title('A simple chart');

plt.show()
```

### Charts



In [ ]: