

```
1 import datetime as dt
2 import numpy as np
3 import pandas as pd
4 import pandas_datareader as pdr
5 import matplotlib.pyplot as plt
6 from pandas.plotting import register_matplotlib_converters
7 register_matplotlib_converters()
8
9 class Analyze:
10     default_date = dt.date.isoformat(dt.date.today() - dt.timedelta(397))
11
12     def get_data(symbol, date=default_date):
13         data = pdr.get_data_yahoo(symbol, start=date)
14         return data
15
16     def moving_avrg(justin, fast=5, slow=20):
17         justin[str(fast)+' '_day'] = justin.Close.rolling(fast).mean()
18         justin[str(slow)+' '_day'] = justin.Close.rolling(slow).mean()
19
20
21     def plot_MA(justin):
22         justin['tradeSingal']=np.where(justin['5_day'] > justin['20_day'], 'Buy', 'Sell')
23         plt.plot(justin['Close'])
24         plt.plot(justin.filter(regex='day'))
25         plt.grid(True)
```