# Pandas读取CSV文件

CSV（Comma Separated Values）格式是电子表格和数据库导入和导出最常见的格式。

## 读取的数据文本内容：

文件名：stocks.csv

Symbol Price Date Time Change Volume

0 AA 39.48 6/11/2007 9:36am -0.18 181800

1 AIG 71.38 6/11/2007 9:36am -0.15 195500

2 AXP 62.58 6/11/2007 9:36am -0.46 935000

3 BA 98.31 6/11/2007 9:36am 0.12 104800

4 C 53.08 6/11/2007 9:36am -0.25 360900

5 CAT 78.29 6/11/2007 9:36am -0.23 225400

## 读文本的操作：

*'''利用Pandas读取CSV文件'''*

data=pd.read\_csv(*'stocks.csv'*)

*'''读取所有内容'''*

print(data,*'\n'*)

Symbol Price Date Time Change Volume

0 AA 39.48 6/11/2007 9:36am -0.18 181800

1 AIG 71.38 6/11/2007 9:36am -0.15 195500

2 AXP 62.58 6/11/2007 9:36am -0.46 935000

3 BA 98.31 6/11/2007 9:36am 0.12 104800

4 C 53.08 6/11/2007 9:36am -0.25 360900

5 CAT 78.29 6/11/2007 9:36am -0.23 225400

*'''返回行数和列数'''*

print(data.shape,*'\n'*)

(6, 6)

*'''返回所有列名'''*

print(data.columns,*'\n'*)

Index(['Symbol', 'Price', 'Date', 'Time', 'Change', 'Volume'], dtype='object')

*'''读取前两行'''*

print(data.head(2),*'\n'*)

Symbol Price Date Time Change Volume

0 AA 39.48 6/11/2007 9:36am -0.18 181800

1 AIG 71.38 6/11/2007 9:36am -0.15 195500

*'''读取某行所有列[0,:]'''*

print(data.ix[0,:],*'\n'*)

Symbol AA

Price 39.48

Date 6/11/2007

Time 9:36am

Change -0.18

Volume 181800

Name: 0, dtype: object

*'''读取某几行的所有列'''*

print(data.ix[[0,2,4],:],*'\n'*)

Symbol Price Date Time Change Volume

0 AA 39.48 6/11/2007 9:36am -0.18 181800

2 AXP 62.58 6/11/2007 9:36am -0.46 935000

4 C 53.08 6/11/2007 9:36am -0.25 360900

*'''读取某列所有行'''*

print(data.ix[:,*'Price'*],*'\n'*)

0 39.48

1 71.38

2 62.58

3 98.31

4 53.08

5 78.29

Name: Price, dtype: float64

*'''读取某几行某几列'''*

print(data.ix[[0,2,4],[*'Price'*,*'Change'*,*'Volume'*]],*'\n'*)

Price Change Volume

0 39.48 -0.18 181800

2 62.58 -0.46 935000

4 53.08 -0.25 360900