

Collecting Stock Market Data



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Data Analysis with Python

IEX Trading

Cleaning Data

Python and Files



Collecting Data



Data Sources

- APIs
- Web Scrappers
- CSV
- Database or Warehouse
- Sensors

Cleaning Data

IEX Trading

- CSV



Demo



Explore Data

- Understand the data

Write Code

- Parse data
- Select key fields & parse file name
- Persist data



IEX Trading Example

<https://iextrading.com/developer/docs>

[https://api.iextrading.com/1.0/stock/aapl/chart/1y?format=cs
v](https://api.iextrading.com/1.0/stock/aapl/chart/1y?format=csv)



Reading Data from Files

```
import csv
myfile=open("IEX_stock-aapl-chart-1y.csv", "r")
reader = csv.reader(myfile)
headers = next(reader, None) # column headers
print(headers)
count = 0
for x in reader:
    # date, open, close, volume
    print(x[0],x[1],x[4],x[5])
    count = count + 1
print count
myfile.close()
```



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Writing Data to Files

```
import csv
with open('myData.csv', 'w') as f:
    # your code here
    # f.write()
f.close()
```



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Persisting Data

