

```
Hansen@Hansens-MacBook-Pro:~ $ " clear
```

```
Hansen@Hansens-MacBook-Pro:~ $ " ls
Applications      Library           Public            experiments
Creative Cloud Files MDIGB0_ideal.xbgf PycharmProjects  nohup.out
Desktop           Mathematica        amber_test        requirement.txt
Developer         Movies            anaconda3         seaborn-data
Documents         Music             android           solarized
Downloads         Parallels        bin               texput.log
Dropbox           Pictures          curl
Hansen@Hansens-MacBook-Pro:~ $ " cd Documents/
```

```
Hansen@Hansens-MacBook-Pro:~/Documents $ " ls
01_Spectrum_2018_INT.pdf
1-s2.0-S0378375897000414-main.pdf
14级前五学期学分绩公示表1.xlsx
2016-2017第二学期课程大纲
2017-18校历.pdf
2017Oct_Nature_Academic_Writing.pdf
2050906.pdf
A New Memory Contender.pdf
An Introduction to Programming with Mathematica.pdf
Analysis-of-Financial-Time-Series-Second-Edition.pdf
Analysis-of-Financial-Time-Series-Third-Edition-Wiley-Series-in-Probability-and-Statistics-.pdf
Bishop - Pattern Recognition And Machine Learning - Springer 2006.pdf
CV_Liyin He.pdf
Cypher_AFM_GUIDE.pdf
Desktop_Background_Image
DuLi_CV_Final.pdf
ESLII.pdf
Github_Desktop
HansenGrade.xlsx
Harvard_Advice_on_ResumeandCoverLetter.pdf
Icon?
KeyProcess.graffle
Kindle人资源索引.pdf
Klei
MATLAB
Mutnau_Signature
My EndNote Library.Data
My EndNote Library.enl
OneDrive
PE.log
QMFI-003洁净室使用规范培训报名表_王瀚宸.xls
README.md
ReadMe 2寸.jpg
ReadMe 6寸.jpg
ReadMe.jpg
Spss 使用索引.docx
TTKN
Test_for_CLatex
TextWrangler_5.0.2_User_Manual.pdf
Wolfram Mathematica
amber14
calculus.nb
editor.pdf
latex教程
numerical analysis.Timothy Sauer.图灵中文扫描版.pdf
scholar.py
~$1242081_1_王瀚宸.docx
~$C_Study_Plan.docx
~$HansenGrade.xlsx
~$rkReport for Week1 on Deep Learning on Mobile.docx
~$生殖健康教育.docx
一只没有皮卡丘的小智.pdf
乘坐西伯利亚铁路旅行是怎样的体验? - 悟空的回答 - 知乎.pdf
假条.pages
先秦诸子2015.pdf
免修不免考申请.pages
初学者如何建立自己的网站指南.pdf
匡院历届学生去向.xlsx
南京大学交换生手册.pdf
南京大学出差审批表_hanchen.doc
南京大学本科生学生手册.pdf
南京大学校徽.png
各种曲谱
吴金瑞-拉丁汉文辞典.pdf
大学数学典型题解析(线性代数与数理统计分册).pdf
就业嘉年华优秀毕业生讲稿_王瀚宸.docx
微电子工艺 课程大纲.pdf
```

```

瀚宸的个人总结.docx
用图表说话(say it with charts).pdf
编程小白的第一本 Python 入门书.pdf
羽队开支明细.xlsx
股票术语大全_互动百科.pdf
行业 | 一文看懂“摩根系”发家史.pdf
香港人才引进计划.rtf
鸟哥的Linux私房菜 基础学习篇(第三版).pdf
Hansen@Hansens-MacBook-Pro:~/Documents $ " cd Github_Desktop/
Hansen@Hansens-MacBook-Pro:~/Documents/Github_Desktop $ " ls
Python_Learning pointer-generator
Hansen@Hansens-MacBook-Pro:~/Documents/Github_Desktop $ " cd Python_Learning/
Hansen@Hansens-MacBook-Pro:~/Documents/Github_Desktop/Python_Learning $ " ls
Coursera Course Online Materials and Notes WebCrawler_Python
Hansen_Notebook_Python README.md
Hansen@Hansens-MacBook-Pro:~/Documents/Github_Desktop/Python_Learning $ " cd Online\ Materials\ and\
tes/
Hansen@Hansens-MacBook-Pro:~/Documents/Github_Desktop/Python_Learning/Online Materials and Notes $ "
NJU_Data Structure and Financial Algorithm
NJU_Introduction to Machine Learning
Oreilly_Natural Language Processing with Python.pdf
Oreilly_Python for Data Analysis
Stanford_CS224n_NLP with DeepLearning
Hansen@Hansens-MacBook-Pro:~/Documents/Github_Desktop/Python_Learning/Online Materials and Notes $ "
Oreilly_
-bash: cd: Oreilly_: No such file or directory
Hansen@Hansens-MacBook-Pro:~/Documents/Github_Desktop/Python_Learning/Online Materials and Notes $ "
Oreilly_Python\ for\ Data\ Analysis/
Hansen@Hansens-MacBook-Pro:~/Documents/Github_Desktop/Python_Learning/Online Materials and Notes/Orei
lly_Python for Data Analysis $ " l
-bash: l: command not found
Hansen@Hansens-MacBook-Pro:~/Documents/Github_Desktop/Python_Learning/Online Materials and Notes/Orei
lly_Python for Data Analysis $ " ls
My_Note ch04.ipynb ch09.ipynb
Python for Data Analysis.pdf ch05.ipynb ch10.ipynb
README.md ch06.ipynb ch11.ipynb
appendix_python.ipynb ch07.ipynb ch12.ipynb
ch02.ipynb ch08.ipynb fec_study.ipynb
Hansen@Hansens-MacBook-Pro:~/Documents/Github_Desktop/Python_Learning/Online Materials and Notes/Orei
lly_Python for Data Analysis $ " ipython
Python 3.6.4 |Anaconda, Inc.| (default, Jan 16 2018, 12:04:33)
Type 'copyright', 'credits' or 'license' for more information
IPython 6.2.1 -- An enhanced Interactive Python. Type '?' for help.

In [1]: obj = """ {"name": "Wes", "places_lived": ["United States", "Spain", "Germany"], "pet": null,
...: "siblings": [{"name": "Scott", "age": 25, "pet": "Zuko"}, {"name": "Katie", "age": 33, "pet"
...: : "Cisco"}] } """

In [2]: import json

In [3]: result = json.loads(obj)

In [4]: result
Out[4]:
{'name': 'Wes',
 'pet': None,
 'places_lived': ['United States', 'Spain', 'Germany'],
 'siblings': [{'age': 25, 'name': 'Scott', 'pet': 'Zuko'},
 {'age': 33, 'name': 'Katie', 'pet': 'Cisco'}]}

In [5]: from pandas import DataFrame

In [6]: siblings = DataFrame(result['siblings'], columns = ['name', 'age'])
-----
TypeError Traceback (most recent call last)
<ipython-input-6-28d2429c69dd> in <module>()
----> 1 siblings = DataFrame(result['siblings'], columns = ['name', 'age'])

```

```
TypeError: __init__() got an unexpected keyword argument 'columns'
```

```
In [7]: siblings = DataFrame(result['siblings'], columns = ['name', 'age'])
```

```
In [8]: siblings
```

```
Out[8]:
```

	name	age
0	Scott	25
1	Katie	33

```
In [9]: siblings = DataFrame(result['siblings'], columns = ['name', 'age', 'pet'])
```

```
In [10]: siblings
```

```
Out[10]:
```

	name	age	pet
0	Scott	25	Zuko
1	Katie	33	Cisco

```
In [11]: from lxml.html import parse
```

```
In [12]: parsed = parse(urlopen('https://finance.yahoo.com/quote/AAPL?p=AAPL'))
```

```
-----
NameError                                Traceback (most recent call last)
<ipython-input-12-b5907962c6fe> in <module>()
----> 1 parsed = parse(urlopen('https://finance.yahoo.com/quote/AAPL?p=AAPL'))
```

```
NameError: name 'urlopen' is not defined
```

```
In [13]: from urllib2 import urlopen
```

```
-----
ModuleNotFoundError                      Traceback (most recent call last)
<ipython-input-13-b89bebeb64cc> in <module>()
----> 1 from urllib2 import urlopen
```

```
ModuleNotFoundError: No module named 'urllib2'
```

```
In [14]: pip install urllib2
```

The following command must be run outside of the IPython shell:

```
$ pip install urllib2
```

The Python package manager (pip) can only be used from outside of IPython.
Please reissue the `pip` command in a separate terminal or command prompt.

See the Python documentation for more informations on how to install packages:

<https://docs.python.org/3/installing/>

```
In [15]: from urllib.request import urlopen
```

```
In [16]: parsed = parse(urlopen('https://finance.yahoo.com/quote/AAPL?p=AAPL'))
```

```
In [17]: parsed
```

```
Out[17]: <lxml.etree._ElementTree at 0x10fe9a308>
```

```
In [18]: doc = parsed.getroot()
```

```
In [19]: doc
```

```
Out[19]: <Element html at 0x10e7b88b8>
```

```
In [20]: links = doc.findall('.//a')
```

```
-----
AttributeError                          Traceback (most recent call last)
<ipython-input-20-0d434a7203db> in <module>()
----> 1 links = doc.findall('.//a')
```

```
AttributeError: 'HtmlElement' object has no attribute 'findall'
```

```
In [21]: links = doc.findall('..//a')
```

```
In [22]: links
```

```
Out[22]:
```

```
[<Element a at 0x10fa066d8>,  
<Element a at 0x10fa067c8>,  
<Element a at 0x10fa06778>,  
<Element a at 0x10fa06098>,  
<Element a at 0x10fa064a8>,  
<Element a at 0x10fa06048>,  
<Element a at 0x10fa060e8>,  
<Element a at 0x10fa06b88>,  
<Element a at 0x10fa06958>,  
<Element a at 0x10fa06278>,  
<Element a at 0x10fa06a98>,  
<Element a at 0x10fa06368>,  
<Element a at 0x10fa068b8>,  
<Element a at 0x10fa06728>,  
<Element a at 0x10fa06c78>,  
<Element a at 0x10fa06548>,  
<Element a at 0x10fa06598>,  
<Element a at 0x10fa065e8>,  
<Element a at 0x10fa06638>,  
<Element a at 0x10fa06cc8>,  
<Element a at 0x10fa06d18>,  
<Element a at 0x10fa06d68>,  
<Element a at 0x10fa06db8>,  
<Element a at 0x10fa06e08>,  
<Element a at 0x10fa06e58>,  
<Element a at 0x10fa06ea8>,  
<Element a at 0x10fa06ef8>,  
<Element a at 0x10fa06f48>,  
<Element a at 0x10fa06f98>,  
<Element a at 0x10fa0c048>,  
<Element a at 0x10fa0c098>,  
<Element a at 0x10fa0c0e8>,  
<Element a at 0x10fa0c138>,  
<Element a at 0x10fa0c188>,  
<Element a at 0x10fa0c1d8>,  
<Element a at 0x10fa0c228>,  
<Element a at 0x10fa0c278>,  
<Element a at 0x10fa0c2c8>,  
<Element a at 0x10fa0c318>,  
<Element a at 0x10fa0c368>,  
<Element a at 0x10fa0c3b8>,  
<Element a at 0x10fa0c408>,  
<Element a at 0x10fa0c458>,  
<Element a at 0x10fa0c4a8>,  
<Element a at 0x10fa0c4f8>,  
<Element a at 0x10fa0c548>,  
<Element a at 0x10fa0c598>,  
<Element a at 0x10fa0c5e8>,  
<Element a at 0x10fa0c638>,  
<Element a at 0x10fa0c688>,  
<Element a at 0x10fa0c6d8>,  
<Element a at 0x10fa0c728>]
```

```
In [23]: lnk = links[28]
```

```
In [24]: lnk
```

```
Out[24]: <Element a at 0x10fa06f98>
```

```
In [25]: lnk.get('href')
```

```
In [26]: lnk.get('href')
```

```
Out[26]: '/news/apple-waving-fat-wad-cash-123500371.html'
```

```
In [27]: lnk.text_content()
Out[27]: 'Apple Is Waving a Fat Wad of Cash at Hollywood'
```

```
In [28]: urls = [lnk.get('href') for lnk in doc.findall('.//a')]
```

```
In [29]: urls[-10:]
```

```
Out[29]:
['/',
 '/watchlists',
 '/portfolios?bypass=true',
 '/screener',
 '/calendar',
 '/industries',
 '/personal-finance',
 '/tech',
 '/topic/yahoo-finance-podcast',
 '/live/facebook']
```

```
In [30]: tables = doc.findall('.//table')
```

```
In [31]: calls = tables[9]
```

```
-----
IndexError                                Traceback (most recent call last)
<ipython-input-31-b0c9891d9968> in <module>()
----> 1 calls = tables[9]
```

```
IndexError: list index out of range
```

```
In [32]: calls = tables[1]
```

```
In [33]: talbles
```

```
-----
NameError                                Traceback (most recent call last)
<ipython-input-33-f50bebf2675d> in <module>()
----> 1 talbles
```

```
NameError: name 'talbles' is not defined
```

```
In [34]: tables
```

```
Out[34]: [<Element table at 0x110325a48>, <Element table at 0x110327188>]
```

```
In [35]: from pandas.io.parsers import TextParser
```

```
In [36]: def parse_options_data(table):
...:     rows = table.findall('.//tr')
...:     header = _unpack(rows[0], knid = 'th')
...:     data = _unpack(r) for r in rows[1]
File "<ipython-input-36-a3541b666d13>", line 4
    data = _unpack(r) for r in rows[1]
                ^
```

```
SyntaxError: invalid syntax
```

```
In [37]: def parse_options_data(table):
...:     rows = table.findall('.//tr')
...:     header = _unpack(rows[0], knid = 'th')
...:     data = _unpack(r) for r in rows[1:]
File "<ipython-input-37-a5548820fe3a>", line 4
    data = _unpack(r) for r in rows[1:]
                ^
```

```
SyntaxError: invalid syntax
```

```
In [38]: def parse_options_data(table):
...:     rows = table.findall('.//tr')
...:     header = _unpack(rows[0], knid = 'th')
...:     data = [_unpack(r) for r in rows[1:]]
...:     return TextParser(data, names = header).get_chunk()
```

```
....:
```

```
In [39]: call_data = parse_options_data(calls)
```

```
NameError                                Traceback (most recent call last)
```

```
<ipython-input-39-c2b2724e7fd5> in <module>()
```

```
----> 1 call_data = parse_options_data(calls)
```

```
<ipython-input-38-e228fc87fd7c> in parse_options_data(table)
```

```
1 def parse_options_data(table):
```

```
2     rows = table.findall('..tr')
```

```
----> 3     header = _unpack(rows[0], knid = 'th')
```

```
4     data = [_unpack(r) for r in rows[1:]]
```

```
5     return TextParser(data, names = header).get_chunk()
```

```
NameError: name '_unpack' is not defined
```

```
In [40]: def _unpack(row, kind = 'td'):
```

```
....:     elts = row.findall('..%s' %kind)
```

```
....:     return [val.text_content() for val in elts]
```

```
....:
```

```
In [41]: call_data = parse_options_data(calls)
```

```
TypeError                                Traceback (most recent call last)
```

```
<ipython-input-41-c2b2724e7fd5> in <module>()
```

```
----> 1 call_data = parse_options_data(calls)
```

```
<ipython-input-38-e228fc87fd7c> in parse_options_data(table)
```

```
1 def parse_options_data(table):
```

```
2     rows = table.findall('..tr')
```

```
----> 3     header = _unpack(rows[0], knid = 'th')
```

```
4     data = [_unpack(r) for r in rows[1:]]
```

```
5     return TextParser(data, names = header).get_chunk()
```

```
TypeError: _unpack() got an unexpected keyword argument 'knid'
```

```
In [42]: def parse_options_data(table):
```

```
....:     rows = table.findall('..tr')
```

```
....:     header = _unpack(rows[0], kind = 'th')
```

```
....:     data = [_unpack(r) for r in rows[1:]]
```

```
....:     return TextParser(data, names = header).get_chunk()
```

```
....:
```

```
....:
```

```
In [43]: call_data = parse_options_data(calls)
```

```
In [44]: put_data = parse_options_data(puts)
```

```
NameError                                Traceback (most recent call last)
```

```
<ipython-input-44-1e2eb1327bd1> in <module>()
```

```
----> 1 put_data = parse_options_data(puts)
```

```
NameError: name 'puts' is not defined
```

```
In [45]: puts = tables[1]
```

```
In [46]: put_data = parse_options_data(puts)
```

```
In [47]: call_data[:10]
```

```
Out[47]:
```

	0	1
0	Beta	1.10
1	PE Ratio (TTM)	17.36
2	EPS (TTM)	9.70
3	Earnings Date	May 1, 2018
4	Forward Dividend & Yield	2.52 (1.46%)
5	Ex-Dividend Date	NaN

```
6          1y Target Est          191.96
```

```
In [48]: puts = tables[0]
```

```
In [49]: put_data = parse_options_data(puts)
```

```
In [50]: call_data[:10]
```

```
Out[50]:
```

	0	1
0	Beta	1.10
1	PE Ratio (TTM)	17.36
2	EPS (TTM)	9.70
3	Earnings Date	May 1, 2018
4	Forward Dividend & Yield	2.52 (1.46%)
5	Ex-Dividend Date	NaN
6	1y Target Est	191.96

```
In [51]: import requests
```

```
In [52]: url = 'https://twitter.com/search?q=python%20pandas&src=typd'
```

```
In [53]: resp = requests.get(url)
```

```
^C-----
```

```
KeyboardInterrupt                                Traceback (most recent call last)
```

```
<ipython-input-53-b76dcb19bdd0> in <module>()
```

```
----> 1 resp = requests.get(url)
```

```
~/anaconda3/lib/python3.6/site-packages/requests/api.py in get(url, params, **kwargs)
```

```
70
71     kwargs.setdefault('allow_redirects', True)
--> 72     return request('get', url, params=params, **kwargs)
73
74
```

```
~/anaconda3/lib/python3.6/site-packages/requests/api.py in request(method, url, **kwargs)
```

```
56     # cases, and look like a memory leak in others.
57     with sessions.Session() as session:
--> 58         return session.request(method=method, url=url, **kwargs)
59
60
```

```
~/anaconda3/lib/python3.6/site-packages/requests/sessions.py in request(self, method, url, params, data, headers, cookies, files, auth, timeout, allow_redirects, proxies, hooks, stream, verify, cert, json)
```

```
506         }
507         send_kwargs.update(settings)
--> 508         resp = self.send(prepare_request(url, data, headers, cookies, files, auth, timeout, allow_redirects, proxies, hooks, stream, verify, cert, json), **send_kwargs)
509
510         return resp
```

```
~/anaconda3/lib/python3.6/site-packages/requests/sessions.py in send(self, request, **kwargs)
```

```
616
617     # Send the request
--> 618     r = adapter.send(request, **kwargs)
619
620     # Total elapsed time of the request (approximately)
```

```
~/anaconda3/lib/python3.6/site-packages/requests/adapters.py in send(self, request, stream, timeout, verify, cert, proxies)
```

```
438         decode_content=False,
439         retries=self.max_retries,
--> 440         timeout=timeout
441     )
442
```

```
~/anaconda3/lib/python3.6/site-packages/urllib3/connectionpool.py in urlopen(self, method, url, body, headers, retries, redirect, assert_same_host, timeout, pool_timeout, release_conn, chunked, body_pos, **response_kw)
```



```

599                                     timeout=timeout_obj,
600                                     body=body, headers=headers,
--> 601                                     chunked=chunked)
602
603                                     # If we're going to release the connection in ``finally:``, then

~/anaconda3/lib/python3.6/site-packages/urllib3/connectionpool.py in _make_request(self, conn, method
, url, timeout, chunked, **httplib_request_kw)
344         # Trigger any extra validation we need to do.
345         try:
--> 346             self._validate_conn(conn)
347         except (SocketTimeout, BaseSSLError) as e:
348             # Py2 raises this as a BaseSSLError, Py3 raises it as socket timeout.

~/anaconda3/lib/python3.6/site-packages/urllib3/connectionpool.py in _validate_conn(self, conn)
848         # Force connect early to allow us to validate the connection.
849         if not getattr(conn, 'sock', None): # AppEngine might not have `.sock`
--> 850             conn.connect()
851
852         if not conn.is_verified:

~/anaconda3/lib/python3.6/site-packages/urllib3/connection.py in connect(self)
282     def connect(self):
283         # Add certificate verification
--> 284         conn = self._new_conn()
285
286         hostname = self.host

~/anaconda3/lib/python3.6/site-packages/urllib3/connection.py in _new_conn(self)
139         try:
140             conn = connection.create_connection(
--> 141                 (self.host, self.port), self.timeout, **extra_kw)
142
143         except SocketTimeout as e:

~/anaconda3/lib/python3.6/site-packages/urllib3/util/connection.py in create_connection(address, time
out, source_address, socket_options)
71         if source_address:
72             sock.bind(source_address)
--> 73         sock.connect(sa)
74         return sock
75

```

KeyboardInterrupt:

```
In [54]: url = 'https://twitter.com/search?q=python%20pandas'
```

```
In [55]: resp = requests.get(url)
```

```

-----
TimeoutError                                Traceback (most recent call last)
~/anaconda3/lib/python3.6/site-packages/urllib3/connection.py in _new_conn(self)
140         conn = connection.create_connection(
--> 141             (self.host, self.port), self.timeout, **extra_kw)
142

~/anaconda3/lib/python3.6/site-packages/urllib3/util/connection.py in create_connection(address, time
out, source_address, socket_options)
82     if err is not None:
--> 83         raise err
84

~/anaconda3/lib/python3.6/site-packages/urllib3/util/connection.py in create_connection(address, time
out, source_address, socket_options)
72         sock.bind(source_address)
--> 73         sock.connect(sa)
74         return sock

```

TimeoutError: [Errno 60] Operation timed out

During handling of the above exception, another exception occurred:

```
NewConnectionError                                Traceback (most recent call last)
~/anaconda3/lib/python3.6/site-packages/urllib3/connectionpool.py in urlopen(self, method, url, body,
headers, retries, redirect, assert_same_host, timeout, pool_timeout, release_conn, chunked, body_pos
, **response_kw)
    600                                     body=body, headers=headers,
--> 601                                     chunked=chunked)
    602

~/anaconda3/lib/python3.6/site-packages/urllib3/connectionpool.py in _make_request(self, conn, method
, url, timeout, chunked, **httplib_request_kw)
    345     try:
--> 346         self._validate_conn(conn)
    347     except (SocketTimeout, BaseSSLError) as e:

~/anaconda3/lib/python3.6/site-packages/urllib3/connectionpool.py in _validate_conn(self, conn)
    849     if not getattr(conn, 'sock', None): # AppEngine might not have `.sock`
--> 850         conn.connect()
    851

~/anaconda3/lib/python3.6/site-packages/urllib3/connection.py in connect(self)
    283     # Add certificate verification
--> 284     conn = self._new_conn()
    285

~/anaconda3/lib/python3.6/site-packages/urllib3/connection.py in _new_conn(self)
    149     raise NewConnectionError(
--> 150         self, "Failed to establish a new connection: %s" % e)
    151
```

NewConnectionError: <urllib3.connection.VerifiedHTTPSConnection object at 0x113942828>: Failed to establish a new connection: [Errno 60] Operation timed out

During handling of the above exception, another exception occurred:

```
MaxRetryError                                Traceback (most recent call last)
~/anaconda3/lib/python3.6/site-packages/requests/adapters.py in send(self, request, stream, timeout,
verify, cert, proxies)
    439                 retries=self.max_retries,
--> 440                 timeout=timeout
    441             )

~/anaconda3/lib/python3.6/site-packages/urllib3/connectionpool.py in urlopen(self, method, url, body,
headers, retries, redirect, assert_same_host, timeout, pool_timeout, release_conn, chunked, body_pos
, **response_kw)
    638         retries = retries.increment(method, url, error=e, _pool=self,
--> 639                                     _stacktrace=sys.exc_info()[2])
    640         retries.sleep()

~/anaconda3/lib/python3.6/site-packages/urllib3/util/retry.py in increment(self, method, url, respons
e, error, _pool, _stacktrace)
    387     if new_retry.is_exhausted():
--> 388         raise MaxRetryError(_pool, url, error or ResponseError(cause))
    389
```

MaxRetryError: HTTPSConnectionPool(host='twitter.com', port=443): Max retries exceeded with url: /search?q=python%20pandas (Caused by NewConnectionError(<urllib3.connection.VerifiedHTTPSConnection object at 0x113942828>: Failed to establish a new connection: [Errno 60] Operation timed out'))

During handling of the above exception, another exception occurred:

```
ConnectionError                                Traceback (most recent call last)
<ipython-input-55-b76dcb19bdd0> in <module>()
----> 1 resp = requests.get(url)

~/anaconda3/lib/python3.6/site-packages/requests/api.py in get(url, params, **kwargs)
```

```

70
71     kwargs.setdefault('allow_redirects', True)
--> 72     return request('get', url, params=params, **kwargs)
73
74

~/anaconda3/lib/python3.6/site-packages/requests/api.py in request(method, url, **kwargs)
56     # cases, and look like a memory leak in others.
57     with sessions.Session() as session:
--> 58         return session.request(method=method, url=url, **kwargs)
59
60

~/anaconda3/lib/python3.6/site-packages/requests/sessions.py in request(self, method, url, params, data, headers, cookies, files, auth, timeout, allow_redirects, proxies, hooks, stream, verify, cert, json)
506         }
507         send_kwargs.update(settings)
--> 508         resp = self.send(prepare_request(url, params, data, headers, cookies, files, auth, timeout, allow_redirects, proxies, hooks, stream, verify, cert, json), **send_kwargs)
509
510         return resp

~/anaconda3/lib/python3.6/site-packages/requests/sessions.py in send(self, request, **kwargs)
616
617         # Send the request
--> 618         r = adapter.send(request, **kwargs)
619
620         # Total elapsed time of the request (approximately)

~/anaconda3/lib/python3.6/site-packages/requests/adapters.py in send(self, request, stream, timeout, verify, cert, proxies)
506         raise SSLError(e, request=request)
507
--> 508         raise ConnectionError(e, request=request)
509
510     except ClosedPoolError as e:

```

ConnectionError: HTTPSConnectionPool(host='twitter.com', port=443): Max retries exceeded with url: /search?q=python%20pandas (Caused by NewConnectionError('<urllib3.connection.VerifiedHTTPSConnection object at 0x113942828>: Failed to establish a new connection: [Errno 60] Operation timed out',))

In [56]: import sqlite3

In [57]: query = """ CREATE TABLE test (a VARCHAR(20), b VARCHAR(20), c REAL, d INTEGER);"""

In [58]: con = sqlite3.connect(':memory:')

In [59]: con.execute(query)

Out[59]: <sqlite3.Cursor at 0x1138dbea0>

In [60]: con.commit()

```

-----
AttributeError                                Traceback (most recent call last)
<ipython-input-60-8e2d0d7f3e3b> in <module>()
----> 1 con.commit()

```

AttributeError: 'sqlite3.Connection' object has no attribute 'commit'

In [61]: con.commit()

In [62]: data = [('Atlanta', 'Georgia', 1.25, 6), ('Tallahassee', 'Florida', 2.6, 3), ('Sacramento', 'California', 1.7, 5)] stmt = "INSERT INTO test VALUES(?, ?, ?, ?)"

```

File "<ipython-input-62-3fbf11ac0585>", line 1
    data = [('Atlanta', 'Georgia', 1.25, 6), ('Tallahassee', 'Florida', 2.6, 3), ('Sacramento', 'California', 1.7, 5)] stmt = "INSERT INTO test VALUES(?, ?, ?, ?)"

```

SyntaxError: invalid syntax

```
In [63]: data = [('Atlanta', 'Georgia', 1.25, 6), ('Tallahassee', 'Florida', 2.6, 3), ('Sacramento',
...: 'California', 1.7, 5)]
```

```
In [64]: stmt = 'INSERT INTO test VALUES(?,?,?,?)'
```

```
In [65]: con.executemany(stmt, data)
```

```
Out[65]: <sqlite3.Cursor at 0x113954ce0>
```

```
In [66]: con.commit()
```

```
In [67]: cursor = con.execute('select * from test')
```

```
In [68]: rows = cursor.fetchall
```

```
In [69]: rows = cursor.fetchall()
```

```
In [70]: rows
```

```
Out[70]:
```

```
[('Atlanta', 'Georgia', 1.25, 6),
 ('Tallahassee', 'Florida', 2.6, 3),
 ('Sacramento', 'California', 1.7, 5)]
```

```
In [71]: cursor.description()
```

```
-----
TypeError                                 Traceback (most recent call last)
<ipython-input-71-8c9c15cf3b92> in <module>()
----> 1 cursor.description()
```

```
TypeError: 'tuple' object is not callable
```

```
In [72]: cursor.description
```

```
Out[72]:
```

```
((('a', None, None, None, None, None),
 ('b', None, None, None, None, None),
 ('c', None, None, None, None, None),
 ('d', None, None, None, None, None))
```

```
In [73]: DataFrame(rows, columns = zip(*cursor.description)[0])
```

```
-----
TypeError                                 Traceback (most recent call last)
<ipython-input-73-43c23e82b876> in <module>()
----> 1 DataFrame(rows, columns = zip(*cursor.description)[0])
```

```
TypeError: 'zip' object is not subscriptable
```

```
In [74]: zip
```

```
Out[74]: zip
```

```
In [75]: zip?
```

```
Init signature: zip(self, /, *args, **kwargs)
```

```
Docstring:
```

```
zip(iter1 [,iter2 [...]]) --> zip object
```

Return a zip object whose `__next__()` method returns a tuple where the *i*-th element comes from the *i*-th iterable argument. The `__next__()` method continues until the shortest iterable in the argument sequence is exhausted and then it raises `StopIteration`.

```
Type:          type
```

```
In [76]: DataFrame(rows, columns=zip(*cursor.description)[0])
```

```
-----
TypeError                                 Traceback (most recent call last)
<ipython-input-76-89069a78d9b0> in <module>()
----> 1 DataFrame(rows, columns=zip(*cursor.description)[0])
```

```
TypeError: 'zip' object is not subscriptable
```

```
In [77]: DataFrame(rows, columns=list(zip(*cursor.description))[0])
```

```
Out[77]:
```

	a	b	c	d
0	Atlanta	Georgia	1.25	6
1	Tallahassee	Florida	2.60	3
2	Sacramento	California	1.70	5

```
In [78]: import pandas.io.sql as sql
```

```
In [79]: sql.read_frame('select * from test', con)
```

```
-----
AttributeError                                Traceback (most recent call last)
<ipython-input-79-cbcea676feea> in <module>()
----> 1 sql.read_frame('select * from test', con)
```

```
AttributeError: module 'pandas.io.sql' has no attribute 'read_frame'
```

```
In [80]: sql.read_sql('select * from test', con)
```

```
Out[80]:
```

	a	b	c	d
0	Atlanta	Georgia	1.25	6
1	Tallahassee	Florida	2.60	3
2	Sacramento	California	1.70	5

```
In [81]: import pymongo
```

```
-----
ModuleNotFoundError                          Traceback (most recent call last)
<ipython-input-81-c275cfc49946> in <module>()
----> 1 import pymongo
```

```
ModuleNotFoundError: No module named 'pymongo'
```

```
In [82]: import pymongo
```

```
In [83]: con = pymongo.Connection('localhost', port=27017)
```

```
-----
AttributeError                                Traceback (most recent call last)
<ipython-input-83-ddea49f83729> in <module>()
----> 1 con = pymongo.Connection('localhost', port=27017)
```

```
AttributeError: module 'pymongo' has no attribute 'Connection'
```

```
In [84]: con = pymongo.MongoClient('localhost', port=27017)
```

```
In [85]: con
```

```
Out[85]: MongoClient(host=['localhost:27017'], document_class=dict, tz_aware=False, connect=True)
```

```
In [86]: tweets = con.db.tweets
```

```
In [87]: tweets
```

```
Out[87]: Collection(Database(MongoClient(host=['localhost:27017'], document_class=dict, tz_aware=False, connect=True), 'db'), 'tweets')
```

```
In [88]: import requeusts, json
```

```
-----
ModuleNotFoundError                          Traceback (most recent call last)
<ipython-input-88-7e9c9ae2d8b3> in <module>()
----> 1 import requeusts, json
```

```
ModuleNotFoundError: No module named 'requeusts'
```

```
In [89]: import requests, json
```

```
In [90]:
```