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How to Learn Data Science & Machine Learning, Land a High-Paying Job, and Future-Proof Your Career



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this Do I need to learn every library below?

No, but everyone will need Requests, because it's how you communicate with out websites. The rest depend on your use case. Here's a rule of thumb: site%20https://elitedatascience.com/python-

scraping-You should learn at least one of BeautifulSoup or lxml. Pick depending on libraries) which is more intuitive for you (more on this below).

Learn Selenium if you need to scrape sites with data tucked away by

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scraping are they tasty? libraries)

Because they are yummy! So without further ado...

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scraping-The Stew: Beautiful Soup 4

libraries) The Salad: Ixml

The Restaurant: Selenium

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The Farm: Requests

libraries)

The Requests library is vital to add to your data science toolkit. It's a simple yet

powerful HTTP library, which means you can use it to access web pages. (https://twitter.com/intent/tweet?

text=5+Tasty+Python+Web+Scraping+Libraries&url=https://elitedatascience.com/pythonweb- We call it The Farm because you'll be using it to get the raw ingredients (i.e. raw scraph for your dishes (i.e. usable data).

libraries)

(a) Its simplicity is definitely its greatest strength. It's so easy use that you could (http://sampicrightibin.withstutresadin.ghdocumentation.

url=https://elitedatascience.com/python-

web- For example, if you want to pull down the contents of a page, it's as easy as:

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libraries&title=5%20Tasty%20Python%20Web%20Scraping%20Libraries)
```

```
Python
   import requests
(mailto:?
subject=Check = page.content
```

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out But that's not all that Requests can do. It can access API's, post to forms, and this much more.

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scrapings, it's got character... It's the only library that calls itself Non-GMO, organic, librariand grass-fed. You gotta love that.



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scraping-practical topics like passing parameters, handling responses, and configuring libraries) headers.



(http://www.stewk.Bestutiful/Soup 4

u=https://elitedatascience.com/python-

web- After you have your ingredients, now what? Now you make them into a stew... a scraping- libraribeautiful stew.

Beautiful Soup (BS4) is a parsing library that can use different **parsers**. A parser (https://plus.google.com/share? text=5%201asty%20Python%20Web%20Scraping%20Libraries&url=https://elitedatasclence.com/python-web-

scrap**Be**autiful Soup's default parser comes from Python's standard library. It's flexible libraries) and forgiving, but a little slow. The good news is that you can swap out its parser

with a faster one if you need the speed.

(https://twitter.com/intent/tweet?

text=50 Testyd Vatheag Wolf 1850 4 Pis 9ts Libraries for a tittor: A filically tastience encountings. This allows web-scraping gracefully handle HTML documents with special characters.

libraries)

In addition, BS4 can help you navigate a parsed document and find what you need. This makes it quick and painless to build common applications. For (http://service.weibo.com/share/share.php? url=htepsa/relipteraits/coehweanteraphonoind all the links in the web page we pulled down web-earlier, it's only a few lines: scraping-

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```

from bs4 import BeautifulSoup

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soup = BeautifulSoup(contents, 'html.parser')

subject=Check

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This charming simplicity has made it one of the most beloved Python web out

scraping libraries!

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scraping-sources

libraries)



Beautiful Soup Documentation

(https://www.crummy.com/software/BeautifulSoup/bs4/doc/) – Includes (https://getpocket.com/save? title=5%2©@sycopentyquickzotave@scraping%20Libraries&url=https://elitedatascience.com/python-(https://www.linkedin.com/shareArticle? Really Short Example (https://gist.github.com/bradmontgomery/1872970) — tk=5%40 Tasty%20Python%20Web%20Scraping%20Libraries&url=https://elitedatascience.com/python-Working Short example of using Beautiful Soup and Requests together. scraping-

The Salad: Ixml

(http://www.fscaboigh-pre/stoamaphpe, production-quality HTML and XML parsing library. u=https://elitedatascience.com/python-We call it The Salad because you can rely on it to be good for you, no matter scrapwhich diet you're following. libraries)

g Among all the Python web scraping libraries, we've enjoyed using lxml the most.

(https://plust.goodle.com/share/sst, and feature-rich.

text=5%20Tasty%20Python%20Web%20Scraping%20Libraries&url=https://elitedatascience.com/pythonweb- Even so, it's quite easy to pick up if you have experience with either XPaths or scraping-C\$S. Its raw speed and power has also helped it become widely adopted in the libraries) industry.

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scraphistorically, the rule of thumb was:

libraries)

If you need speed, go for lxml.

• If you need to handle messy documents, choose Beautiful Soup. (http://service.weibo.com/share/share.php?

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web- Yet, this distinction no longer holds. Beautiful Soup now supports using the lxml scraping ser, and vice-versa. It's also pretty easy to learn the other once you've libraries&title=5%20Tasty%20Python%20Web%20Scraping%20Libraries) learned one.

 \searrow

(mailts of to start, we recommend trying both and picking the one that feels more

<u>intuitive</u> for you. We prefer lxml, but many swear by Beautiful Soup. out

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site%20https://eliceatascirtattorp(thttp://flxml.de/index.html#introduction) — Official web-

scraping-documentation.

libraries) HTML Scraping with Ixml and Requests (http://docs.python-

guide.org/en/latest/scenarios/scrape/) – Short and sweet tutorial on pulling a (https://get/pebpatgen/withverequests and then using XPath selectors to mine the desired

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अक्षितां स्काट Restaurant: Selenium

scraping-

Sometimes, you do need to go to a restaurant to eat certain dishes. The farm is great, but you can't find everything there.

(http://www.facebook.com/sharer.php?

u=https://elitedatascience.com/python-Likewise, sometimes the Requests library is not enough to scrape a website.

scrap in the serve content. For example, they might libraries it until you scroll down on the page or click a button before loading certain

8 content.

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For these sites, you'll need something more powerful. You'll need Selenium (which can handle everything except tribal rain dancing).

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text=5+Tasty+Python+Web+Scraping+Libraries&url=https://elitedatascience.com/pythonweb- Selenium is a tool that automates browsers, also known as a web-driver. With it,

scrapingu can actually open a Google Chrome window, visit a site, and click on links.

libraries) Pretty cool, right?



(http://sakscecombescomitsheroutsboardoindings for controlling it right from your application. url=https://elitedatascience.com/python-this makes it a breeze to integrate with your chosen parsing library. web-

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• Selenium with Python (http://selenium-python.readthedocs.io/) – (mailto:?

Documentation for Selenium's Python bindings.

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out Excellent, thorough 3-part tutorial for scraping websites with Selenium.

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• Scraping Hotel Prices (https://www.scrapenero.com/tutorial-web-scraping-site%20https://elitedatascience.com/python-

hotel-prices-using-selenium-and-python/) – Code snippet for scraping hotel scraping-prices using Selenium and Ixml. libraries)

The Chef: Scrapy

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libraries)
But what if you need more than that? What if you need a complete spider that

can crawl through entire websites in a systematic way?

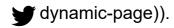
(http://www.facebook.com/sharer.php?

u=https://elitedatascience.com/python-Introducing: Scrapy! Scrapy is technically not even a library... it's a complete

scrapweb scraping framework. That means you can use it to manage requests, libraries eserve user sessions, follow redirects, and handle output pipelines.

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librarie tp://stackoverflow.com/questions/17975471/selenium-with-scrapy-for-



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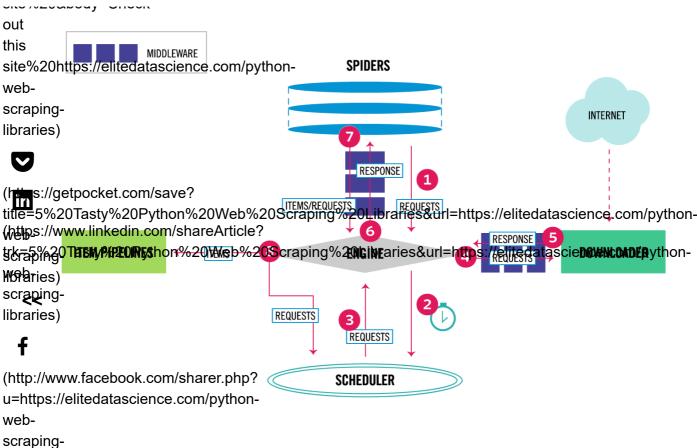


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Scrapy architecture, image borrowed from official documentation

(https://doc.scrapy.org/en/latest/topics/architecture.html)

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scraptogok up some other sophisticated spider, then Scrapy was made for you. libraries)

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scrapinglibraries) Extracting data from websites with Scrapy

(https://medium.com/@kaismh/extracting-data-from-websites-using-scrapy-

e1e1e357651a#.sw7c9ycio) - Detailed tutorial for scraping an e-commerce (http://service.weibo.com/share/share.php?

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• Scrapinghub (https://scrapinghub.com/) - Cloud-based crawling service by scraping-

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