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# Scraping dynamic content using python-Scrapy

Asked 9 years, 10 months ago Modified 5 years ago Viewed 60k times



Disclaimer: I've seen numerous other similar posts on StackOverflow and tried to do it the same way but was they don't seem to work on this website.

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I'm using Python-Scrapy for getting data from koovs.com.



However, I'm not able to get the product size, which is dynamically generated. Specifically, if someone could guide me a little on getting the 'Not available' size tag from the drop-down menu on this link, I'd be grateful.

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I am able to get the size list statically, but doing that I only get the list of sizes but not which of them are available.

python web-scraping scrapy

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edited May 24, 2015 at 17:15

asked May 20, 2015 at 9:27

Pravesh Jain

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Correct me if I'm wrong, you are able to get the list of sizes, but having difficulties filtering only available sizes? – alecxe May 20, 2015 at 9:36

Exactly! I am able to get them statically and doing that I only get the list of sizes and not which of them are available. I'll add this to the question. – Pravesh Jain May 20, 2015 at 9:58

Would you be okay involving selenium? - alecxe May 21, 2015 at 9:04

I've never really used selenium but if it's required only to get some data and not required during the actual scraping then it's good. Could you guide me a little on how it would be used? - Pravesh Jain May 21, 2015 at 10:03

1 This question and this one helped me a lot – Henadzi Rabkin Dec 22, 2019 at 22:31

## 4 Answers

Sorted by: Highest score (default)



You can also solve it with <a href="ScrapyJS">ScrapyJS</a> (no need for selenium and a real browser):

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This library provides Scrapy+JavaScript integration using Splash.



Follow the installation instructions for <a href="Splash">Splash</a> and <a href="ScrapyJS">ScrapyJS</a>, start the splash docker container:



\$ docker run -p 8050:8050 scrapinghub/splash



Put the following settings into settings.py:

```
SPLASH_URL = 'http://192.168.59.103:8050'

DOWNLOADER_MIDDLEWARES = {
    'scrapyjs.SplashMiddleware': 725,
}

DUPEFILTER_CLASS = 'scrapyjs.SplashAwareDupeFilter'
```

And here is your sample spider that is able to see the size availability information:

```
# -*- coding: utf-8 -*-
import scrapy
                                            *
class ExampleSpider(scrapy.Spider):
    name = "example"
    allowed_domains = ["koovs.com"]
    start_urls = (
        'http://www.koovs.com/only-onlall-stripe-ls-shirt-59554.html?
from=category-651&skuid=236376',
    def start requests(self):
        for url in self.start_urls:
            yield scrapy.Request(url, self.parse, meta={
                 'splash': {
                     'endpoint': 'render.html',
                     'args': {'wait': 0.5}
            })
```

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```
def parse(self, response):
        for option in response.css("div.select-size select.sizeOptions option")
[1:]:
            print option.xpath("text()").extract()
```

Here is what is printed on the console:

```
[u'S / 34 -- Not Available']
[u'L / 40 -- Not Available']
[u'L / 42']
```

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Both great answers. Both the approaches work. I wonder if there is an advantage using one of them over the other? - Pravesh Jain May 25, 2015 at 10:18

3 @PraveshJain from what I understand, if you are okay with both the approaches, I would stick to splash - in theory, this should be faster since it doesn't involve a real browser at all. Besides, you can use this option in a non-real-screen headless environment. It is also easy to set up and there are almost no changes to the scrapy code - the key part is the middleware that scrapyjs provides. Hope that helps. - alecxe May 25, 2015 at 13:20 🧪

\$ docker run -p 8050:8050 scrapinghub/splash - this command..how can i automate this command along with scrapy to scrape data using a cron job scheduler.. it obviously is not a great idea to keep docker process running at all time..may be some sh script before i make call to reactor at scheduled time? - MrPandav Jul 3, 2015 at 9:40 /

- @Chelsea the settings.py should be stored in ur project directory. ProjectName > projectName > settings.py Genfood Jan 25, 2018 at 19:29
- @Plasmatiger run docker-machine ip default in docker then change your SPLASH\_URL to that, worked for me to resolve your issue. - Winters Jul 21, 2020 at 2:16



From what I understand, the size availability is determined dynamically in javascript being executed in the browser. Scrapy is not a browser and cannot execute javascript.



If you are okay with switching to <u>selenium browser automation tool</u>, here is a sample code:



```
from selenium.webdriver.support.select import Select
from selenium.webdriver.support.ui import WebDriverWait
from selenium.webdriver.common.by import By
from selenium.webdriver.support import expected_conditions as EC
browser = webdriver.Firefox() # can be webdriver.PhantomJS()
browser.get('http://www.koovs.com/only-onlall-stripe-ls-shirt-59554.html?
from=category-651&skuid=236376')
# wait for the select element to become visible
select_element = WebDriverWait(browser,
10).until(EC.visibility_of_element_located((By.CSS_SELECTOR, "div.select-size
select.sizeOptions")))
select = Select(select_element)
for option in select.options[1:]:
    print option.text
```

It prints:

browser.quit()

```
S / 34 -- Not Available
L / 40 -- Not Available
L / 42
```

from selenium import webdriver

Note that in place of Firefox you can use other webdrivers like Chrome or Safari. There is also an option to use a headless PhantomJS browser.

You can also combine Scrapy with Selenium if needed, see:

- selenium with scrapy for dynamic page
- <u>scrapy-webdriver</u>
- <u>seleniumcrawler</u>

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answered May 21, 2015 at 13:16



**474k** 127 1.1k 1.2k

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I faced that problem and solved easily by following these steps



pip install splash pip install scrapy-splash

pip install scrapyjs



download and install docker-toolbox



open docker-quickterminal and enter

```
$ docker run -p 8050:8050 scrapinghub/splash
```

### To set the SPLASH\_URL check the default ip configured in the docker machine by entering

\$ docker-machine ip default (My IP was 192.168.99.100)

```
SPLASH_URL = 'http://192.168.99.100:8050'
DOWNLOADER_MIDDLEWARES = {
    'scrapyjs.SplashMiddleware': 725,
DUPEFILTER_CLASS = 'scrapyjs.SplashAwareDupeFilter'
```

#### That's it!

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docker toolbox link is broken... :. ( - oldboy Jun 13, 2018 at 6:59

@Anthony - You can get docker from here: docker.com/get-docker The Docker Toolbox is for older Mac and Windows systems that do not meet the requirements of Docker for Mac and Docker for Windows. – Tony Jun 22, 2018 at 18:25 🖍



You have to interpret the json of the website, examples <u>scrapy.readthedocs</u> and <u>testingcan.github.io</u>





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edited Mar 10, 2020 at 2:55 kaya3 **51.2k** 7 85 115 answered May 25, 2019 at 18:38



Alexis Mejía **51** 1 3

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