

USE PYTHON TO PARSE HTML FOR

LIZZIE SIEGLE



@LIZZIEPIKA

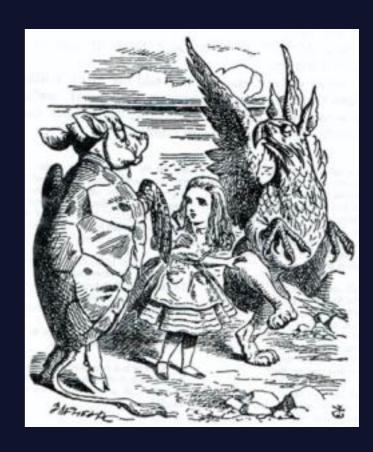


- DEVELOPER Evangelist at twilio
- LIKES [PEOPLE, PYTHON, AND PIKACHU]

BEAUTIFUL SOUP 101

What is Beautiful Soup?

- Web-scraping library
- Extract desired data from page
- Clean content



How will We Use - Find every link on a webpage

Find quotes by keyword, author							Search
Popular	Recent	New	Friends	My Authors			
uotes pop	ular among C	Soodreads	members				
Second .	Oon't cry be Dr. Seuss	ecause it'	s over, sm	ile because it h	appened.'	13	Like
igs: attributed							
		crying, expe	rience, happine	ss, joy, life, misattribu	ted-dr-seuss, o	optimism, 186439 likes	
"I an ha	'm selfish, n out of cor	impatier	nt and a lit at times h	tle insecure. I nard to handle.	make mist But if you	186439 likes takes, I can't	Like
"I an ha	'm selfish, n out of con andle me at my best."	impatier	nt and a lit at times h	tle insecure. I nard to handle.	make mist But if you	186439 likes takes, I can't	Like
"I am ha at - Marilyn N	'm selfish, n out of con andle me at my best."	impatier ntrol and my wors	nt and a lit at times h st, then yo	tle insecure. I nard to handle.	make mist But if you	186439 likes takes, I can't	Like

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Some of our Tools

- -Requests to access HTML
- bs4 to parse HTML
- -String to clean text
- Random to pick random number



BS4 CODE



SEND HTTP REQUESTS

```
from bs4 import BeautifulSoup
import requests, string, random

def scrape_and_clean(url):
    req = requests.get(url)
    soup = BeautifulSoup(req.content, "html.parser")
```



Inspec



Find each 'div'

```
#get quotes from page
div_quotes = soup("div", attrs={"class":"quoteText"})
```



Find each `a`

```
quotes = tag
for q in div_quotes:
    author = ""
    # If no author, then skip
    try:
        author = q.find("a").get_text() + "\n"
    except:
        continue
```



Multi-line -> Single String

```
quote = ""
# turn multiline quotes/poems into a single string
for i in range(len(q.contents)):
    #find returns
    line = q.contents[i].encode("ascii", errors="ignore").decode("utf-8")
    print("line ", line)
    if (line[0] == "<"): # is tag, ignore characters that aren't part of quote
        break
    else:
        quote += line</pre>
```



Clean, Format Quotes

```
quote = q.contents[0].encode("ascii", errors="ignore").decode("utf-8")
quote = "\"" + quote.strip() + "\" "
quotes += quote + '\n\n' + '-' + author + "#"
quotes_to_return = filter(lambda x: x in string.printable, quotes) #clean
return quotes_to_return
```



LIVE



Text +1(813)906-5107

"harry potter"
"crazy rich asians"
"jane austen"
etc.



THANK YOU!

- HTTPS://WWW.CRUMMY.COM/SOFTWARE/ BEAUTIFULSOUP/

- HTTPS://WWW.TWILIO.COM/BLOG/PARSE-HTML-FOR-BOOK-QUOTES-PYTHON-BEAUTIFUL-SOUP-WHATSAPP



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