# Translating Beautiful Soup to C++

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June 20, 2019

### Parsing HTML: html.parser

<div id="remository">20</div>

```
class LinksParser(HTMLParser.HTMLParser):
  def init (self):
    HTMLParser.HTMLParser. init (self)
    self.recording = 0
    self.data = []
  def handle starttag(self, tag, attributes):
    if tag != 'div':
      return
    if self.recording:
      self.recording += 1
      return
    for name, value in attributes:
      if name == 'id' and value == 'remository':
        break
    else:
      return
    self.recording = 1
```

```
def handle_endtag(self, tag):
   if tag == 'div' and self.recording:
     self.recording -= 1

def handle_data(self, data):
   if self.recording:
     self.data.append(data)
```

Python's library

- Python's library
- Extracts data from HTML and XML

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- Extracts data from HTML and XML
- Easy navigating through the parse tree

https://code.launchpad.net/beautifulsoup

### Parsing HTML: Beautiful Soup

```
from bs4 import BeautifulSoup
soup = BeautifulSoup('<div id="remository">20</div>')
tag=soup.div
print(tag.string)
```

Good learning exercise

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  - Learn working with open source

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  - Learn to read code

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  - Learn internal details of BS4

Read documentation

- Read documentation
- Read codebase

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- Convert

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- Convert
- Package into library

# **Current Progress**

About 50% documentation read

# Discussion