

Python BeautifulSoup

index.html

<!DOCTYPE html>

<html>

 <head>

 <title>Header</title>

 <meta charset="utf-8">

 </head>

 <body>

 <h2>Operating systems</h2>

 <ul id="mylist" style="width:150px">

 Solaris

 FreeBSD

 Debian

 NetBSD

 Windows

 <p>

 FreeBSD is an advanced computer operating system used to
 power modern servers, desktops, and embedded platforms.

 </p>

 <p>

 Debian is a Unix-like computer operating system that is
 composed entirely of free software.

 </p>

 </body>

</html>

#####

simple.py

from bs4 import BeautifulSoup

with open("index.html", "r") as f:

 contents = f.read()

```

soup = BeautifulSoup(contents, 'lxml')

print(soup.h2)
print(soup.head)
print(soup.li)

#####
tags_names.py

#!/usr/bin/python3

from bs4 import BeautifulSoup

with open("index.html", "r") as f:

    contents = f.read()

    soup = BeautifulSoup(contents, 'lxml')

    print("HTML: {0}, name: {1}, text: {2}".format(soup.h2,
        soup.h2.name, soup.h2.text))
#####
traverse_tree.py
#!/usr/bin/python3

from bs4 import BeautifulSoup

with open("index.html", "r") as f:

    contents = f.read()

    soup = BeautifulSoup(contents, 'lxml')

    for child in soup.recursiveChildGenerator():

        if child.name:

            print(child.name)
#####
#

```

```
get_children.py
```

```
#!/usr/bin/python3
```

```
from bs4 import BeautifulSoup
```

```
with open("index.html", "r") as f:
```

```
    contents = f.read()
```

```
    soup = BeautifulSoup(contents, 'lxml')
```

```
    root = soup.html
```

```
    root_childs = [e.name for e in root.children if e.name is not None]
```

```
    print(root_childs)
```

```
#####
```

```
get_descendants.py
```

```
#!/usr/bin/python3
```

```
from bs4 import BeautifulSoup
```

```
with open("index.html", "r") as f:
```

```
    contents = f.read()
```

```
    soup = BeautifulSoup(contents, 'lxml')
```

```
    root = soup.body
```

```
    root_childs = [e.name for e in root.descendants if e.name is not None]
```

```
    print(root_childs)
```

```
#####
```

```
scraping.py
```

```
#!/usr/bin/python3
```

```
from bs4 import BeautifulSoup
```

```
import requests as req
```

```
resp = req.get("http://www.something.com")
```

```
soup = BeautifulSoup(resp.text, 'lxml')
```

```
print(soup.title)
```

```
print(soup.title.text)
```

```
print(soup.title.parent)
```

```
#####
```

```
pretty.py
```

```
#!/usr/bin/python3
```

```
from bs4 import BeautifulSoup
```

```
import requests as req
```

```
resp = req.get("http://www.something.com")
```

```
soup = BeautifulSoup(resp.text, 'lxml')
```

```
print(soup.prettify())
```

```
#####
```

```
find_by_id.py
```

```
#!/usr/bin/python3
```

```
from bs4 import BeautifulSoup
```

```
with open("index.html", "r") as f:
```

```
    contents = f.read()
```

```
    soup = BeautifulSoup(contents, 'lxml')
```

```
    #print(soup.find("ul", attrs={ "id" : "mylist"}))
```

```
    print(soup.find("ul", id="mylist"))
```

```
#####
```

```
regex.py
```

```
#!/usr/bin/python3
```

```

import re

from bs4 import BeautifulSoup

with open("index.html", "r") as f:

    contents = f.read()

    soup = BeautifulSoup(contents, 'lxml')

    strings = soup.find_all(string=re.compile('BSD'))

    for txt in strings:

        print(" ".join(txt.split()))

#####
select_nth_tag.py
#!/usr/bin/python3

from bs4 import BeautifulSoup

with open("index.html", "r") as f:

    contents = f.read()

    soup = BeautifulSoup(contents, 'lxml')

    print(soup.select("li:nth-of-type(3)"))
#####
select_by_id.py
#!/usr/bin/python3

from bs4 import BeautifulSoup

with open("index.html", "r") as f:

    contents = f.read()

    soup = BeautifulSoup(contents, 'lxml')

```

```
print(soup.select_one("#mylist"))
```