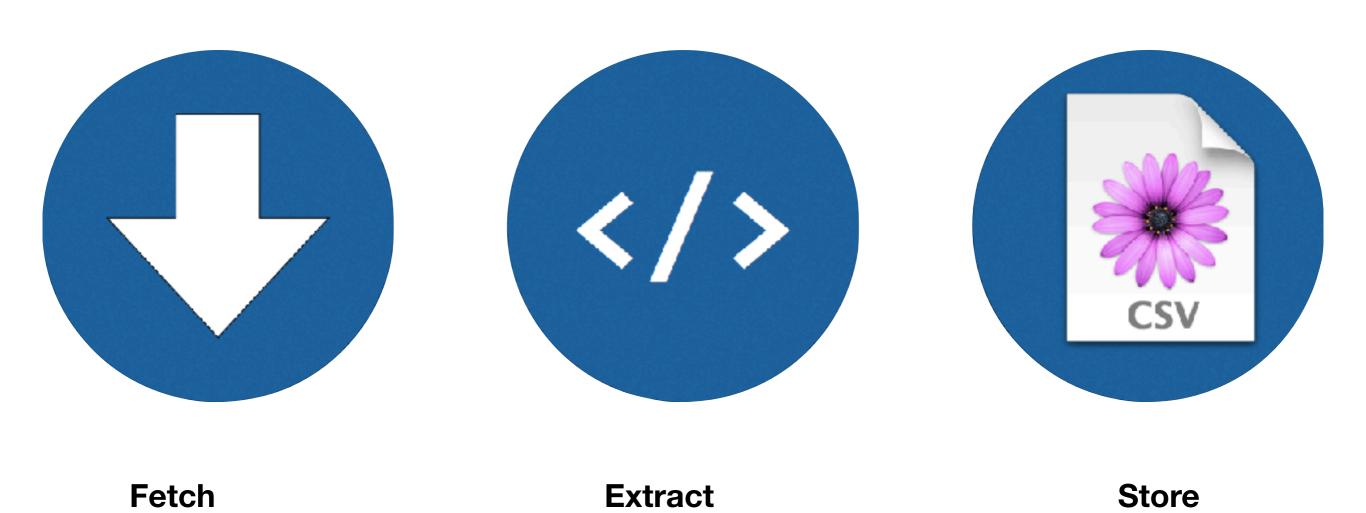
# Tìm hiểu hệ thống mã nguồn mở Crawler

Group 3

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## Fetch one page

import requests

page = requests.get('http://dictionary.cambridge.org')

#### Fetch a set of results

import requests

base\_url = 'http://dictionary.cambridge.org/ dictionary/english-vietnamese/%s'

for word in list\_words:

url = base\_url % word

page= requests.get(url)

#### Fetch a set of results

import requests

page='requests.get(url)'

with open(page,'"wb") as html:

# extract structure webpage

## Parsing data

- Regular Expressions
- CSS Selectors
- XPath
- Object Searching

### Parsing data

```
<html>
 <head><title>Green Eggs and Ham</title></head>
 <body>
  Green Eggs
    Ham
  </body>
</html>
```

## Regular Expressions

import re

item\_re'='re.compile("<li[^>]\*>([^<]+?)</li>")'

item\_re.findall(html)

#### **CSS Selectors**

from bs4 import BeautifulSoup

soup= BeautifulSoup(html)

[s.text for s in soup.select("li")]

## **XPath**

from Ixml import etree

s.text for s in tree.xpath('/ol/li')

#### **Write JSON**

```
import json
with open('data.json','wb') as outfile:
    json.dump(my_json, outfile)
```

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