
Search Engine Parser Documentation

Release 0.6.1

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CHAPTER 1

Search Engine Parser

pypi package 0.6

Package to query popular search engines and scrape for result titles, links and descriptions. Aims to scrape the widest range of search engines. View all [supported engines](#)

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 - *License (MIT)* ## Popular Supported Engines

Some of the popular search engines include:

- Google
- DuckDuckGo
- GitHub
- StackOverflow
- Baidu
- YouTube

View all [supported engines](#)

1.1 Installation

```
# install only package dependencies
pip install search-engine-parser
# Installs `pysearch` cli tool
pip install "search-engine-parser[cli]"
```

1.2 Development

Clone the repository

```
git clone git@github.com:bisoncorps/search-engine-parser.git
```

Create virtual environment and install requirements

```
mkvirtualenv search_engine_parser
pip install -r requirements/dev.txt
```

1.3 Code Documentation

Found on [Read the Docs](#)

1.4 Running the tests

```
pytest
```

1.5 Usage

1.5.1 Code

Query Results can be scraped from popular search engines as shown in the example snippet below

```

import pprint

from search_engine_parser.core.engines.bing import Search as BingSearch
from search_engine_parser.core.engines.google import Search as GoogleSearch
from search_engine_parser.core.engines.yahoo import Search as YahooSearch

search_args = ('preaching to the choir', 1)
gsearch = GoogleSearch()
ysearch = YahooSearch()
bsearch = BingSearch()
gresults = gsearch.search(*search_args)
yresults = ysearch.search(*search_args)
bresults = bsearch.search(*search_args)
a = {
    "Google": gresults,
    "Yahoo": yresults,
    "Bing": bresults
}

# pretty print the result from each engine
for k, v in a.items():
    print(f"-----{k}-----")
    for result in v:
        pprint.pprint(result)

# print first title from google search
print(gresults["titles"][0])
# print 10th link from yahoo search
print(yresults["links"][9])
# print 6th description from bing search
print(bresults["descriptions"][5])

# print first result containing links, descriptions and title
print(gresults[0])

```

For localization, you can pass the url keyword and a localized url. This would use the url to query and parse using the same engine's parser

```

# Use google.de instead of google.com
results = gsearch.search(*search_args, url="google.de")

```

Cache

The results are automatically cached for engine searches, you can either bypass cache by adding `cache=False` to the search or `async_search` method or clear the engines cache

```

from search_engine_parser.core.engines.github import Search as GitHub
github = GitHub()
# bypass the cache
github.search("search-engine-parser", cache=False)

#OR
# clear cache before search
github.clear_cache()
github.search("search-engine-parser")

```

Async

search-engine-parser supports `async` hence you could use codes like

```
results = await gsearch.async_search(*search_args)
```

Results

The `SearchResults` after the searching

```
>>> results = gsearch.search("preaching the choir", 1)
>>> results
<search_engine_parser.core.base.SearchResult object at 0x7f907426a280>
# The object supports retrieving individual results by iteration of just by type_
↪ (links, descriptions, titles)
>>> results[0] # Returns the first <SearchItem>
>>> results[0]["description"] # Get the description of the first item
>>> results[0]["link"] # get the link of the first item
>>> results["descriptions"] # Returns a list of all descriptions from all results
```

It can be iterated like a normal list to return individual `SearchItem`

1.5.2 Command line

Search engine parser comes with a CLI tool known as `pysearch` e.g

```
pysearch --engine bing search --query "Preaching to the choir" --type descriptions
```

Result

```
'Preaching to the choir' originated in the USA in the 1970s. It is a variant of the_
↪ earlier 'preaching to the converted', which dates from England in the late 1800s_
↪ and has the same meaning. Origin - the full story 'Preaching to the choir' (also_
↪ sometimes spelled quire) is of US origin.
```

There is a needed argument for the CLI i.e `-e` Engine followed by either of two subcommands in the CLI i.e `search` and `summary`

```
usage: pysearch [-h] [-u URL] [-e ENGINE] {search,summary} ...

SearchEngineParser

positional arguments:
  {search,summary}      help for subcommands
    search              search help
    summary             summary help

optional arguments:
  -h, --help            show this help message and exit
  -u URL, --url URL     A custom link to use as base url for search e.g
                        google.de
  -e ENGINE, --engine ENGINE
                        Engine to use for parsing the query e.g google, yahoo,
                        bing,duckduckgo (default: google)
```


summary just shows the summary of each search engine added with descriptions on the return

```
pysearch --engine google summary
```

Full arguments for the search subcommand shown below

```
usage: pysearch search [-h] -q QUERY [-p PAGE] [-t TYPE] [-r RANK]

optional arguments:
  -h, --help            show this help message and exit
  -q QUERY, --query QUERY
                        Query string to search engine for
  -p PAGE, --page PAGE  Page of the result to return details for (default: 1)
  -t TYPE, --type TYPE  Type of detail to return i.e full, links, descriptions
                        or titles (default: full)
  -r RANK, --rank RANK  ID of Detail to return e.g 5 (default: 0)
  -cc, --clear_cache    Clear cache of engine before searching
```

1.6 Code of Conduct

All actions performed should adhere to the [code of conduct](#)

1.7 Contribution

Before making any contribution, please follow the [contribution guide](#)

1.8 License (MIT)

This project is opened under the [MIT 2.0 License](#) which allows very broad use for both academic and commercial purposes.

1.9 Contributors

Thanks goes to these wonderful people ([emoji key](#)):

This project follows the [all-contributors](#) specification. Contributions of any kind welcome!

CHAPTER 2

Indices and tables

- `genindex`
- `modindex`
- `search`