
torvend Documentation

Release 0.0.1

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1.1 Getting Started

This module is my attempt at creating a utility for searching multiple web-based torrent trackers quickly. Essentially it allows the user to specify a search query and yields standardized torrent objects from multiple different web-based torrent trackers asynchronously.

This is accomplished by leveraging the [scrapy](#) package to perform advanced web-scraping in parallel.

1.1.1 Installation

Torvend is available on [PyPi](#). So you can easily install the torvend package with the following command:

```
pip install --user torvend
```

This will install the Torvend package as well as give you access to the embedded command line utility!

Note: If you do not have access to the torvend command line utility after using the above command, make sure that the `~/local/bin/` directory is included in your `$PATH` environment variable.

Important: Torvend requires [Python 3.5+](#)! If you haven't yet started using Python 3, you should definitely start since **many** projects are fully dropping support for Python 2.7.

1.1.2 Command Line

Using Torvend from the command line is quick and easy. The command line tool should be able to be accessed by simply executing `torvend` in a shell.

You can check if torvend is available by first just running `torvend` in your shell.

```
$ torvend

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| | | | | |   \_/\____/ | |   \_/\ ____/ | | | \__,_|
| | (/) | |
| | [ ] | |   A set of torrent vendor scrapers (by Stephen Bunn)
(`--.____.--)
 `-.____.-'
```

Usage: `torvend [OPTIONS] COMMAND [ARGS]...`

You can view the help text by passing either the `-h` or `--help` flags to `torvend`.

```
$ torvend --help
Usage: torvend [OPTIONS] COMMAND [ARGS]...

The command-line interface to the Torvend framework.

Usage:

    torvend list           - (lists available spiders)
    torvend search "query" - (uses spiders to search for torrents)

Options:
  --color / --no-color  Enable pretty colors [default: True]
  -q, --quiet           Disable spinners
  -v, --verbose         Enable verbose logging
  --version             Show the version and exit.
  -h, --help           Show this message and exit.

Commands:
  list    Lists available spiders
  search  Searches for torrents
```

You can also checkout the [Command Line](#) reference documentation.

Listing Spiders

You can list the available spiders by executing the `list` command. This will iteratively output a spiders name followed by the supported domains of that spider.

```
$ torvend list
thepiratebay (thepiratebay.org, thepiratebay.se)
...
```

These spider names are the names you can use in the `search` command to allow or ignore certain spiders.

Searching for Torrents

You can search for torrents using the spiders through the `search` command. The most simple method of searching for torrents is to simply specify a query to the command.

This will first search and display several torrents (sorted by most seeders) and prompt you to select which torrent's magnet link you want open.

```
$ torvend search "my query"
0 12341234123412341234123412341234@thepiratebay My Query Torrent (1234, 1)
...
[select torrent]: 0
opening magnet for My Query Torrent from thepiratebay ...
```

This will open the selected magnet link in whatever bittorrent client on your machine is configured to handle magnet links.

If instead you want to copy the magnet to your clipboard, simply pass the `--copy` flag to the search.

```
$ torvend search "my query" --copy
0 12341234123412341234123412341234@thepiratebay My Query Torrent (1234, 1)
...
[select torrent]: 0
copying magnet for My Query Torrent from thepiratebay to clipboard ...
```

You can also select multiple torrents at the same time by passing a comma separated list of ranges you wish to select!

```
$ torvend search "my query"
0 12341234123412341234123412341234@thepiratebay My Query Torrent (1234, 1)
1 12341234123412341234123412341235@thepiratebay Another Torrent (1232, 1)
2 1234123412341234123412341236@1337x Interesting Torrent (10, 1)
3 1234123412341234123412341237@thepiratebay Some Other Torrent (8, 1)
4 1234123412341234123412341238@torlock My Query Torrent (1, 0)
...
[select torrent]: 0,2-4
opening magnet for My Query Torrent from thepiratebay ...
opening magnet for Interesting Torrent from 1337x ...
opening magnet for Some Other Torrent from thepiratebay ...
opening magnet for My Query Torrent from torlock ...
```

When using the `--copy` flag, multiple selected magnets are joined by newlines before they are copied to the clipboard.

If instead you want to pipe the magnet of the highest seeded torrent to `stdout`, you can run this:

```
$ torvend search -b "my query"
magnet:xtn...
```

This is useful for piping magnet links into other command line applications. For example, imagine you want to stream a *public domain* video to your desktop. This can be done using [webtorrent](#) and [mpv](#) by running this:

```
$ torvend -q search -b "a video" | webtorrent --mpv
...
```

Customization

You can refine your torrent search by using the `--allowed` and `--ignored` options accepted by the search command. These options allow you to specify a list of spiders (*delimited by commas*) to either utilize or not utilize.

```
$ torvend search --allowed thepiratebay,1337x "my query"
...
$ torvend search --ignored limetorrents "my query"
...
```

Note: Using both the `--allowed` and `--ignored` flags in the same command is **not** permitted. This is because it doesn't make any sense to **only** allow a certain subset of spiders to execute and ignore the others (*because the allowed subset implicitly ensures this*).

—

You can also refine the number of torrent suggestions displayed to you by using the `--results` option. This will limit you to a maximum number of torrent suggestions among all of the torrents scraped by the spiders.

```
$ torvend search --results 10 "my query"
... <=10 results ...
```

—

The format results are displayed to you can also be customized by using the `--format` option. This option takes a string containing format parameters for the *Torrent* item fields.

For example, if I wanted to only display the name, seeders, and leechers of discovered torrents, I would run this:

```
$ torvend search --format "{name} ({seeders}, {leechers})" "my query"
0  My Query Torrent (1234, 1)
...
```

You can also customize the color of specific fields by using the `fore`, `back`, and `style` objects in your format.

```
$ torvend search --format "{style.BOLD}{name}{style.RESET} ({fore.GREEN}{seeders}
↪{style.RESET}, {leechers})" "my query"
0  My Query Torrent (1234, 1)
...
```

For more information on what colors and styles are available [click here](#).

1.2 Usage

Using Torvend in your own applications is *really* simple and straightforward. I've removed most of the complexity by provided a *TorvendClient* object which performs the torrent searching task optimally right out of the box.

1.2.1 Basic Initialization

The most simple form of initializing a client can be done like this:

```
from torvend.client import TorvendClient

my_client = TorvendClient()
```

Note: The only subpackage exposed by the `torvend` package is the command line package `cli`. This means that you will have to specify the fully qualified name to import the `TorvendClient` object.

```
# INCORRECT
import torvend
my_client = torvend.client.TorvendClient()

# CORRECT
import torvend.client
my_client = torvend.client.TorvendClient()

# CORRECT
from torvend.client import TorvendClient
my_client = TorvendClient()
```

1.2.2 Advanced Initialization

There are several available options that can be specified when initializing a new `TorvendClient`.

Specifying Spiders

The most useful of these options are the `allowed` and `ignored` lists. These lists allow you to specify the spiders to utilize or to not utilize when performing the search.

For example, if I wanted to only search torrents using the only the spiders `ThePirateBaySpider` and `Torrentz2Spider`, I could include this class in the `allowed` list when initializing the client.

```
from torvend.spiders import (ThePirateBaySpider, Torrentz2Spider)

my_client = TorvendClient(allowed=[ThePirateBaySpider, Torrentz2Spider])
```

However, if I only wanted to **not** receive torrents from `LimeTorrentsSpider`, I could specify that spider in the `ignored` list.

```
from torvend.spiders import (LimeTorrentsSpider,)

my_client = TorvendClient(ignored=[LimeTorrentsSpider])
```

Important: The use of both the `allowed` and `ignored` fields in the same initialization is not permitted. This is because it makes no sense to allow **only** some spiders to run and ignore others (**the allowed list already ignores them**).

Customize Scrapy

You can also customize the `scrapy` settings by passing in the `settings` dictionary with updated settings. For example, if I wanted to use a different name for the scrapy bot, I could pass in my new bot name in the settings dictionary.

```
my_client = TorvendClient(settings={'BOT_NAME': 'my-bot'})
```

If you need a reference for available scrapy settings, [click here](#).

Verbose Logging

You can enable verbose logging by simply passing the `verbose` flag to the `TorvendClient` initialization.

```
my_client = TorvendClient(verbose=True)
```

1.2.3 Starting Spiders

You can start up the search process through the `TorvendClient` by starting the spiders. Lucky for you, I've compressed the logic into the `search()` method.

Because this web-scraper is asynchronous, you need to not only supply a query to the search method, but also a callback function.

```
def torrent_callback(item, **kwargs):
    print('received torrent {item}'.format(item=item))

my_client = TorvendClient()
my_client.search('my query', torrent_callback)
```

Important: This callback **must** specify the positional argument `item` and the `**kwargs` dictionary. Note that **the positional argument must be named “item”** due to how scrapy handles it's signals.

1.3 Changelog

All notable changes to `Torvend` will be documented in this file.

The format is based on [Keep a Changelog](#) and this project adheres to [Semantic Versioning](#).

1.3.1 *unreleased*

- WIP

1.3.2 0.0.1 (2017-12-19)

- fixed readme.rst for PyPi usage

1.3.3 0.0.0 (2017-12-19)

this is the first pre-alpha release, so the only other prior change history is the git commit log

- **added support for the following spiders**
 - thepiratebay
 - torrentz2
 - 1337x
 - limetorrents
 - torlock
 - skytorrents
 - idope
- added full framework structure
- added full documentation structure
- added command line interface

2.1 Contributing

When contributing to this repository, please first discuss the change you wish to make via an issue to the owners of this repository before submitting a pull request.

Important: We have an enforced style guide and a code of conduct. Please follow them in all your interactions with this project.

2.1.1 Style Guide

- We stictly follow [PEP8](#) and utilize [Sphinx](#) docstrings on **all** classes and functions.
- We employee [flake8](#) as our linter with exceptions to the following rules:
 - D203
 - F401
 - E123
- Linting and test environments are configured via `tox.ini`.
- An `.editorconfig` file is included in this repository which dictates whitespace, indentation, and file encoding rules.
- Although `requirements.txt` and `requirements_dev.txt` do exist, [Pipenv](#) is utilized as the primary virtual environment and package manager for this project.
- We strictly utilize [Semantic Versioning](#) as our version specification.

2.1.2 Issues

Issues should follow the included `ISSUE_TEMPLATE` found in `.github/ISSUE_TEMPLATE.md`.

- **Issues should contain the following sections:**

- Expected Behavior
- Current Behavior
- Possible Solution
- Steps to Reproduce (for bugs)
- Context
- Your Environment

These sections help the developers greatly by providing a large understanding of the context of the bug or requested feature without having to launch a full fledged discussion inside of the issue.

2.1.3 Pull Requests

Pull requests should follow the included `PULL_REQUEST_TEMPLATE` found in `.github/PULL_REQUEST_TEMPLATE.md`.

- Pull requests should always be from a **topic/feature/bugfix** (left side) branch. *Pull requests from master branches will not be merged.*
- Pull requests should not fail our requested style guidelines or linting checks.

2.1.4 Code of Conduct

Our code of conduct is taken directly from the [Contributor Covenant](#) since it directly hits all of the points we find necessary to address.

Our Pledge

In the interest of fostering an open and welcoming environment, we as contributors and maintainers pledge to making participation in our project and our community a harassment-free experience for everyone, regardless of age, body size, disability, ethnicity, gender identity and expression, level of experience, education, socio-economic status, nationality, personal appearance, race, religion, or sexual identity and orientation.

Our Standards

Examples of behavior that contributes to creating a positive environment include:

- Using welcoming and inclusive language
- Being respectful of differing viewpoints and experiences
- Gracefully accepting constructive criticism
- Focusing on what is best for the community
- Showing empathy towards other community members

Examples of unacceptable behavior by participants include:

- The use of sexualized language or imagery and unwelcome sexual attention or advances
- Trolling, insulting/derogatory comments, and personal or political attacks
- Public or private harassment
- Publishing others' private information, such as a physical or electronic address, without explicit permission
- Other conduct which could reasonably be considered inappropriate in a professional setting

Our Responsibilities

Project maintainers are responsible for clarifying the standards of acceptable behavior and are expected to take appropriate and fair corrective action in response to any instances of unacceptable behavior.

Project maintainers have the right and responsibility to remove, edit, or reject comments, commits, code, wiki edits, issues, and other contributions that are not aligned to this Code of Conduct, or to ban temporarily or permanently any contributor for other behaviors that they deem inappropriate, threatening, offensive, or harmful.

Scope

This Code of Conduct applies both within project spaces and in public spaces when an individual is representing the project or its community. Examples of representing a project or community include using an official project e-mail address, posting via an official social media account, or acting as an appointed representative at an online or offline event. Representation of a project may be further defined and clarified by project maintainers.

Enforcement

Instances of abusive, harassing, or otherwise unacceptable behavior may be reported by contacting the project team at stephen@bunn.io. All complaints will be reviewed and investigated and will result in a response that is deemed necessary and appropriate to the circumstances. The project team is obligated to maintain confidentiality with regard to the reporter of an incident. Further details of specific enforcement policies may be posted separately.

Project maintainers who do not follow or enforce the Code of Conduct in good faith may face temporary or permanent repercussions as determined by other members of the project's leadership.

Attribution

This Code of Conduct is adapted from the [Contributor Covenant](https://www.contributor-covenant.org/version/1/4/code-of-conduct.html), version 1.4, available at <https://www.contributor-covenant.org/version/1/4/code-of-conduct.html>

2.2 Command Line

Here is a autodoc built refernce of the current state of torvend.

Please ignore the garbled text below.

2.2.1 torvend

The command-line interface to the Torvend framework.

Usage:

torvend list - (lists available spiders) torvend search “query” - (uses spiders to search for torrents)

```
torvend [OPTIONS] COMMAND [ARGS]...
```

Options

--color, --no-color
Enable pretty colors [default: True]

-q, --quiet
Disable spinners

-v, --verbose
Enable verbose logging

--version
Show the version and exit.

list

List available spiders.

torvend list

```
torvend list [OPTIONS]
```

search

Search for torrents:

torvend search “query”

```
torvend search [OPTIONS] QUERY
```

Options

--allowed <allowed>
List of allowed spiders (no spaces; delimiter “,”)

--ignored <ignored>
List of ignored spiders (no spaces; delimiter “,”)

--spinner <spinner>
Customize spinner type [default: dots12]

--fancy
Display fancy title

--copy
Copies the selected torrent to clipboard [default: False]

--duplicates
Allow duplicate torrents to be displayed [default: False]

-r, --results <results>
Number results to render

-f, --format <format>
Customize torrent render

-j, --json
Write results to stdout as json (disable selection)

-s, --sort <sort>
Customize torrent sorting [default: seeders]

-b, --select-best
Automatically write best magnet to stdout

Arguments

QUERY
Required argument

2.3 Torvend Package

This is the base torvend package (*not including the command line utility*). The packages that developers should typically interact with are `client`, `items`, and `spiders`. Other packages are mainly used internally and typically dont need to be modified.

2.3.1 torvend.client

class `torvend.client.TorvendClient` (*settings={}, ignored=[], allowed=[], verbose=False*)

Bases: `torvend.meta.loggable.Loggable`

The client for discovering torrents.

settings

Overrides for default client scrapy settings.

Getter Returns overriding dictionary of client scrapy settings

Setter Sets the overriding settings

Return type `dict[str,...]`

ignored

A list of ignored spider classes.

Getter Returns a list of ignored spider classes

Setter Sets the list of ignored spider classes

Return type `list[torvend.spiders._common.BaseSpider]`

allowed

A list of allowed spider classes.

Getter Returns a list of allowed spider classes

Setter Sets the list of allowed spider classes

Return type `list[torvend.spiders._common.BaseSpider]`

verbose

Indicates if verbose logging is enabled.

Getter Returns True if verbose logging is enabled

Setter Sets the verbose flag

Return type `bool`

get_spiders ()

Returns a list of spider classes.

Returns A list of spider classes

Return type `list[torvend.spiders._common.BaseSpider]`

search (*query*, *callback*, *results=30*)

Starts the search process for a given query.

Note: The callback method must accept at least a positional argument named `item`. This is the discovered torrent item.

Parameters

- **query** (*str*) – The query text to search with
- **callback** (*callable*) – A callback which receives torrent items
- **results** (*int*) – The minimum number of results for each spider to return

2.3.2 torvend.items

class `torvend.items.TorrentCategory`

Bases: `enum.Enum`

A enumeration of generic torrent categorizations.

Unknown = 'unknown'

Audio = 'audio'

Video = 'video'

Image = 'image'

Application = 'application'

Game = 'game'

Book = 'book'

Adult = 'adult'

class `torvend.items.Torrent` (**args*, ***kwargs*)

Bases: `scrapy.item.Item`

An item that describes a torrent.

Note: The attributes of these `scrapy` items can only be retrieved by indexing the object like a dictionary. The same is true for setting the attributes of the object.

```
torrent_name = torrent_instance['name']
torrent_instance['name'] = new_torrent_name
```

Parameters

- **spider** (*str*) – The spider name which discovered the torrent
- **source** (*str*) – The source url of the torrent
- **name** (*str*) – The name of the torrent
- **size** (*int*) – The size in bytes of the torrent
- **hash** (*str*) – The infohash of the torrent
- **magnet** (*str*) – The magnet link of the torrent
- **categories** (*list*[`torvend.items.TorrentCategory`]) – A list of applicable categories
- **seeders** (*int*) – The number of seeder
- **leechers** (*int*) – The number of leechers
- **uploaded** (*datetime.datetime*) – The datetime to torrent was uploaded
- **uploader** (*str*) – The username of the uploader

```
fields = {'categories': {'serializer': <function Torrent.<lambda>>}, 'magnet': {}},
```

2.3.3 torvend.spiders

Below are a list of currently included spiders that can be utilized by `TorvendClient`. These spiders are just `scrapy` spiders built to yield as many torrent items as possible until a given results threshold is met.

Important: These spiders are very dependent on the responses made from search requests by the spider. This means that as a spider's targeted site updates their search method (or views), the spider will most likely need to be updated as well.

idope

```
class torvend.spiders.idope.IDopeSpider (query=None, results=30, *args, **kwargs)
```

```
    Bases: torvend.spiders._common.BaseSpider
```

```
    The spider for idope.se.
```

```
    name = 'idope'
```

```
    allowed_domains = ['idope.se']
```

```
    paging_index
```

```
        Required property for paging indexing.
```

```
        Returns The starting index of pages
```

```
        Return type int
```

```
    paging_results
```

```
        Required property for paging results.
```

```
        Returns The number of results per queried page
```

```
        Return type int
```

query_scheme

Required property for query scheme.

Returns The scheme the query needs

Return type `str`

query_path

Required property for the query path.

Returns The path the query needs

Return type `str`

parse (*response*)

Required first level page parser.

Parameters **response** (*scrapy.Request*) – The response instance from start_requests

Returns Yields torrent items

Return type `list[items.Torrent]`

thepiratebay

```
class torvend.spiders.thepiratebay.ThePirateBaySpider (query=None, results=30,  
                                                    *args, **kwargs)
```

Bases: `torvend.spiders._common.BaseSpider`

The spider for thepiratebay.org.

name = `'thepiratebay'`

allowed_domains = `['thepiratebay.org', 'thepiratebay.se']`

paging_index

Required property for paging indexing.

Returns The starting index of pages

Return type `int`

paging_results

Required property for paging results.

Returns The number of results per queried page

Return type `int`

query_scheme

Required property for query scheme.

Returns The scheme the query needs

Return type `str`

query_path

Required property for the query path.

Returns The path the query needs

Return type `str`

parse (*response*)

Required first level page parser.

Parameters **response** (*scrapy.Request*) – The response instance from start_requests

Returns Yields torrent items

Return type *list[items.Torrent]*

torrentz2

class torvend.spiders.torrentz2.**Torrentz2Spider** (*query=None, results=30, *args, **kwargs*)

Bases: torvend.spiders._common.BaseSpider

The spider for torrentz2.eu.

name = 'torrentz2'

allowed_domains = ['torrentz2.eu']

paging_index

Required property for paging indexing.

Returns The starting index of pages

Return type *int*

paging_results

Required property for paging results.

Returns The number of results per queried page

Return type *int*

query_scheme

Required property for query scheme.

Returns The scheme the query needs

Return type *str*

query_path

Required property for the query path.

Returns The path the query needs

Return type *str*

parse (*response*)

Required first level page parser.

Parameters **response** (*scrapy.Request*) – The response instance from start_requests

Returns Yields torrent items

Return type *list[items.Torrent]*

1337x

```
class torvend.spiders.onethreethreesevenx.OneThreeThreeSevenXSpider (query=None,  
                                                                    re-  
                                                                    sults=30,  
                                                                    *args,  
                                                                    **kwargs)
```

Bases: torvend.spiders._common.BaseSpider

The spider for 1337x.to.

name = '1337x'

allowed_domains = ['1337x.to']

paging_index
Required property for paging indexing.
Returns The starting index of pages
Return type `int`

paging_results
Required property for paging results.
Returns The number of results per queried page
Return type `int`

query_scheme
Required property for query scheme.
Returns The scheme the query needs
Return type `str`

query_path
Required property for the query path.
Returns The path the query needs
Return type `str`

parse (*response*)
Required first level page parser.
Parameters **response** (*scrapy.Request*) – The response instance from
start_requests
Returns Yields additional scrapy requests
Return type `list[scrapy.Request]`

limetorrents

```
class torvend.spiders.limetorrents.LimeTorrentsSpider (query=None,    results=30,  
                                                         *args, **kwargs)
```

Bases: torvend.spiders._common.BaseSpider

name = 'limetorrents'

allowed_domains = ['www.limetorrents.cc']

paging_index
Required property for paging indexing.

Returns The starting index of pages

Return type `int`

paging_results

Required property for paging results.

Returns The number of results per queried page

Return type `int`

query_scheme

Required property for query scheme.

Returns The scheme the query needs

Return type `str`

query_path

Required property for the query path.

Returns The path the query needs

Return type `str`

parse (*response*)

Required first level page parser.

Parameters **response** (*scrapy.Request*) – The response instance from `start_requests`

Returns Yields additional scrapy requests

Return type `list[scrapy.Request]`

skytorrents

```
class torvend.spiders.skytorrents.SkyTorrentsSpider(query=None, results=30, *args,  
                                                    **kwargs)
```

Bases: `torvend.spiders._common.BaseSpider`

name = `'skytorrents'`

allowed_domains = `['skytorrents.in']`

paging_index

Required property for paging indexing.

Returns The starting index of pages

Return type `int`

paging_results

Required property for paging results.

Returns The number of results per queried page

Return type `int`

query_scheme

Required property for query scheme.

Returns The scheme the query needs

Return type `str`

query_path

Required property for the query path.

Returns The path the query needs

Return type `str`

parse (*response*)

Required first level page parser.

Parameters **response** (*scrapy.Request*) – The response instance from `start_requests`

Returns Yields additional scrapy requests

Return type `list[scrapy.Request]`

torlock

```
class torvend.spiders.torlock.TorlockSpider (query=None, results=30, *args, **kwargs)
```

Bases: `torvend.spiders._common.BaseSpider`

name = `'torlock'`

allowed_domains = `['torlock.com']`

paging_index

Required property for paging indexing.

Returns The starting index of pages

Return type `int`

paging_results

Required property for paging results.

Returns The number of results per queried page

Return type `int`

query_scheme

Required property for query scheme.

Returns The scheme the query needs

Return type `str`

query_path

Required property for the query path.

Returns The path the query needs

Return type `str`

parse (*response*)

Required first level page parser.

Parameters **response** (*scrapy.Request*) – The response instance from `start_requests`

Returns Yields additional scrapy requests

Return type `list[scrapy.Request]`

CHAPTER 3

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