
ytools3

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Library for validating `yaml` files against schema and selectively dumping nodes from `yaml` (or `json`) documents in `yaml` or `json` format.

This is a port of `ytools` (<https://github.com/yaccob/ytools>), which was Python 2 only, to Python 3.

Docs	
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PyPI	
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Other	

FEATURES

- Output `yaml` as `json` or `python`
- Output `json` as `yaml` or `python` (provided that there are no duplicate mapping entry in the `json` source)
- Extract particular nodes from `yaml` and `json` files.
 - If `yaml` is used as output format (default) the output is a valid `yaml` document.
- Validate `yaml` and `json` documents.
 - The `json-schema` can be provided in `yaml` format as well, which improves readability and writability.
- Preserve order of mapping-keys in `yaml` and `json` output.
- Multi-document support
 - Multiple input files
 - * ... as well as multiple `yaml` documents within a file
 - * ... and a combination of both

INSTALLATION

```
from PyPI
from GitHub
$ python3 -m pip install ytools3 --user
$ python3 -m pip install git+https://github.com/domdfcoding/ytools3@master --user
```

2.1 API Reference

Library for validating *yaml* files against schema and selectively dumping nodes from *yaml* (or *json*) documents in *yaml* or *json* format.

```
ytools.dump(datafile, path='$', format='yaml', yaml_options={explicit_start: True, explicit_end: True,
allow_unicode: True}, json_options={indent: 2, encoding: utf-8}, encoding='utf-8')
```

Parameters

- **datafile** (`Union[str, Path]`) –
- **path** (`str`) –
- **format** (`str`) –
- **yaml_options** (`str`) –
- **json_options** (`str`) –
- **encoding** (`str`) – Encoding to open the files with.

Return type `None`

```
ytools.validate(schemafile, datafiles, encoding='utf-8')
```

Validate the given datafiles using a schema

Parameters

- **schemafile** (`Union[str, Path]`) – The *json* or *yaml* formatted schema to validate with
- **datafiles** (`Iterable[Union[str, Path]]`) – An iterable of *json* or *yaml* files to validate
- **encoding** (`str`) – Encoding to open the files with.

Return type `None`

2.2 Downloading source code

The ytools3 source code resides on publicly accessible GitHub servers, and can be accessed from the following URL: <https://github.com/domdfcoding/ytools3>

If you have git installed, you can clone the repository with the following command:

```
$ git clone https://github.com/domdfcoding/ytools3"
> Cloning into 'ytools3'...
> remote: Enumerating objects: 47, done.
> remote: Counting objects: 100% (47/47), done.
> remote: Compressing objects: 100% (41/41), done.
> remote: Total 173 (delta 16), reused 17 (delta 6), pack-reused 126
> Receiving objects: 100% (173/173), 126.56 KiB | 678.00 KiB/s, done.
> Resolving deltas: 100% (66/66), done.
```

Alternatively, the code can be downloaded in a ‘zip’ file by clicking:

Clone or download → Download Zip

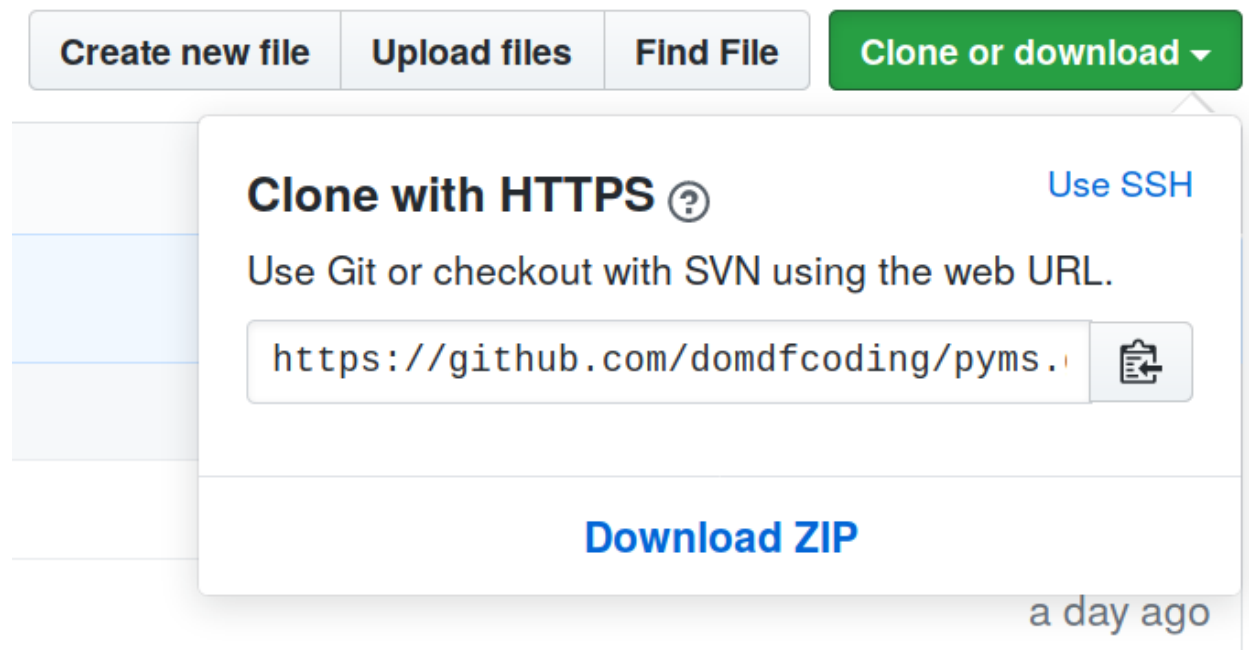


Fig. 1: Downloading a ‘zip’ file of the source code

2.3 Building from source

To build the ytools3 package from source using setuptools, run the following command:

```
$ python3 setup.py sdist bdist_wheel
```

setuptools is configured using the file setup.py.

Different formats are available for built distributions

Format	Description	Notes
gztar	gzipped tar file (.tar.gz)	default on Unix
bztar	bzipped tar file (.tar.bz2)	
xztar	bzipped tar file (.tar.bz2)	
tar	tar file (.tar)	
zip	zip file (.zip)	default on Windows
wininst	self-extracting ZIP file for Windows	
msi	Microsoft Installer	

setup.py

```

1  #!/usr/bin/env python
2  # This file is managed by `repo_helper`. Don't edit it directly
3  """Setup script"""
4
5  # stdlib
6  import sys
7
8  # 3rd party
9  from setuptools import setup
10
11  sys.path.append(".")
12
13  # this package
14  from __pkginfo__ import * # pylint: disable=wildcard-import
15
16
17
18  setup(
19      extras_require=extras_require,
20      install_requires=install_requires,
21      py_modules=[],
22      version=__version__,
23
24  )

```

__pkginfo__.py

```

1  # This file is managed by `repo_helper`. Don't edit it directly
2  # Copyright (C) 2020 Dominic Davis-Foster <dominic@davis-foster.co.uk>
3  #

```

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```

4  # This file is distributed under the same license terms as the program it came with.
5  # There will probably be a file called LICEN[S/C]E in the same directory as this_
   ↪file.
6  #
7  # In any case, this program is distributed in the hope that it will be useful,
8  # but WITHOUT ANY WARRANTY; without even the implied warranty of
9  # MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.
10 #
11 # This script based on https://github.com/rocky/python-uncompyle6/blob/master/___
   ↪pkginfo__.py
12 #
13
14 # stdlib
15 import pathlib
16
17 __all__ = [
18     "__copyright__",
19     "__version__",
20     "modname",
21     "pypi_name",
22     "__license__",
23     "__author__",
24     "short_desc",
25     "author",
26     "author_email",
27     "github_username",
28     "web",
29     "github_url",
30     "repo_root",
31     "install_requires",
32     "extras_require",
33     "project_urls",
34
35     "import_name",
36 ]
37
38 __copyright__ = """
39 2020 Dominic Davis-Foster <dominic@davis-foster.co.uk>
40 """
41
42 __version__ = "3.0.1"
43 modname = "ytools3"
44 pypi_name = "ytools3"
45 import_name = "ytools"
46 __license__ = "Apache2.0"
47 short_desc = "Library for validating `yaml` files against schema and selectively_
   ↪dumping nodes from `yaml` (or `json`) documents in `yaml` or `json` format."
48 __author__ = author = "Dominic Davis-Foster"
49 author_email = "dominic@davis-foster.co.uk"
50 github_username = "domdfcoding"
51 web = github_url = "https://github.com/domdfcoding/ytools3"
52 repo_root = pathlib.Path(__file__).parent
53 install_requires = (repo_root / "requirements.txt").read_text(encoding="utf-8").split(
   ↪'\n')
54 extras_require = {'all': []}
55
56

```

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```
57
58 project_urls = {
59     "Documentation": "https://ytools3.readthedocs.io",
60     "Issue Tracker": f"{github_url}/issues",
61     "Source Code": github_url,
62 }
```

View the [Function Index](#) or browse the [Source Code](#).

Browse the [GitHub Repository](#)

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