
domain2idna Documentation

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CHAPTER 1

Requirements

Here is the list of requirements:

- Python 3.6.2+ && Python < 4
- `colorama`

1.1 Python 3.6.8+ && Python < 4

The specification `3.6.8+` is because we test `domain2idna` (daily) in all version from `3.6.8`. Otherwise, more semantically, `domain2idna` is written for all Python `3.6+` version.

1.2 colorama

As we want to add some coloration, we choose `colorama` for the job as it offers a portable awesome solution.

CHAPTER 2

Get and install domain2idna

2.1 Using pip

Choose your repository, install and enjoy domain2idna!

2.1.1 From PyPi

```
$ pip3 install --user domain2idna
```

Note: We recommend the `--user` flag which installs the required dependencies at the user level. More information about it can be found on [pip documentation](#).

Warning: We do not recommend the `--user` flag when using domain2idna into containers like - for example - Travis CI.

2.1.2 From GitHub

```
$ pip3 install --user git+https://github.com/PyFunceble/domain2idna.git@master  
→#egg=domain2idna
```

Note: We recommend the `--user` flag which installs the required dependencies at the user level. More information about it can be found on [pip documentation](#).

Warning: We do not recommend the `--user` flag when using domain2idna into containers like - for example - Travis CI.

2.2 Using conda

```
$ conda install -c pyfuncble domain2idna
```

2.3 Pure Python method

Execute the following and enjoy domain2idna!

We clone the repository.

```
$ git clone https://github.com/PyFunceble/domain2idna.git
```

We move to the cloned directory.

```
$ cd domain2idna
```

We test the package before installating.

```
$ python3 setup.py test
```

We install domain2idna.

```
$ python3 setup.py install --user
```

Note: We recommend the `--user` flag which installs the required dependencies at the user level. More information about it can be found on [pip documentation](#).

Warning: We do not recommend the `--user` flag when using domain2idna into containers like - for example - Travis CI.

CHAPTER 3

First steps

Make sure that you can run the following without any issue and enjoy domain2idna!!

```
$ domain2idna --version
```


CHAPTER 4

Usage

4.1 As a Python module

Here's an example which show us how domain2idna can be used a python module.

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

"""
This module uses domains2idna to convert a given domain.

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Contributors:
    Let's contribute to this example!!

Repository:
    https://github.com/PyFunceble/domain2idna
"""

from domain2idna import domain2idna

DOMAINS = [
    "bittré.com", "bllogram.com", "coinbse.com", "cryptopi.com", "cyptopia.com"
]

# The following return the result of the whole list.
print("UTF-8 domains: %s" % DOMAINS)
print("Converted domains: %s" % domain2idna(DOMAINS))

# The following return the result of only one element.
print("UTF-8 domain: %s" % DOMAINS[0])
print("Converted domain: %s" % domain2idna(DOMAINS[0]))
```

4.2 From a terminal

Here is the list of available command when calling domain2idna from a terminal.

```
usage: domain2idna [-h] [-s SUBJECT [SUBJECT ...]] [-e ENCODING] [-f FILE] [-o OUTPUT] [-v]

domain2idna - The tool to convert a domain or a file with a list of domain to the famous IDNA format.

optional arguments:
  -h, --help            show this help message and exit
  -s SUBJECT [SUBJECT ...], --subject SUBJECT [SUBJECT ...]
                        Sets the subjects to convert.
  -e ENCODING, --encoding ENCODING
                        Sets the encoding to use.
  -f FILE, --file FILE  Sets the file to read to get the domain(s) to convert.
  -o OUTPUT, --output OUTPUT
                        Sets the file where we write the converted domain(s).
  -v, --version          show program's version number and exit

Crafted with  by Nissar Chababy (Funilrys)
```

CHAPTER 5

Code documentation

domain2idna - The tool to convert a domain or a file with a list of domain to the famous IDNA format.

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Contributors: Let's contribute to domains2idna!!

Project link: <https://github.com/PyFunceble/domain2idna>

Project documentation: <http://domain2idna.readthedocs.io>

License:

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domain2idna.domain2idna(subject, encoding='utf-8')

Process the conversion of the given subject.

Parameters

- **subject** (*str, list*) – The subject to convert.
- **encoding** (*str*) – The encoding to provide.

Return type list, str

`domain2idna.get (domain_to_convert)`

This function is a passerelle between the front and the backend of this module.

Parameters `domain_to_convert` (*str*) – The domain to convert.

Returns

str: if a string is given.

list: if a list is given.

Return type str, list

Deprecated since version 1.10.0: Use `domain2idna()` instead.

5.1 Helpers

5.1.1 Problematic

How can we write, read and delete a file without having to write everytime the same thing?

5.1.2 Code documentation

`File()`

`class domain2idna.helpers.File(filename)`

File treatment/manipulations.

Parameters `filename` (*str*) – A path to the file to manipulate.

`delete()`

Deletes a given file path.

Warning: We handle the case that the file does not exist.

`read(encoding=None)`

Reads a given file path and return its content.

Parameters `encoding` (*str*) – The encoding to use when opening the file.

Return type str

`write(data_to_write)`

Writes or appends data into the given file path.

Parameters `data_to_write` (*str*) – The data to write.

5.2 Converter

5.2.1 Code documentation

```
class domain2idna.converter.Converter(subject, original_encoding='utf-8')
```

Provides a base for every core logic we add.

Parameters

- **subject** (*str, list*) – The subject to convert.
- **original_encoding** (*str*) – The encoding to provide as output.

```
convert_to_idna(subject, original_encoding='utf-8')
```

Converts the given subject to IDNA.

Parameters **subject** (*str*) – The subject to convert.

Return type *str*

```
get_CONVERTED()
```

Provides the converted data.

CHAPTER 6

Issues

Have or found an issue with domain2idna? Please follow one of the following.

- Fill a [new issue](#).
- Contact Fun Ilrys on [keybase.io](#).
- Send a email to contactTATATAfunilrysTODTOTODcom.

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