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# **domain2idna Documentation**

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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.





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## Get and install domain2idna

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### 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 pyfunceble 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 installing.

```
$ 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

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### First steps

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

```
$ domain2idna --version
```



## 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.

Author:
    Nissar Chababy, @funilrys, contactTATAfunilrystODTODcom

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)
```

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## Code documentation

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

**Author:** Nissar Chababy, @funilrys, contactTATAfunilrysTODTODcom

**Contributors:** Let's contribute to domains2idna!!

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

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

License:

```
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```

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```

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SOFTWARE.
```

```
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.

<b>Warning:</b> 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

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### Issues

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

- Fill a [new issue](#).
- Send a email to [contactTATATAfunilrysTODTOTODcom](mailto:contactTATATAfunilrysTODTOTODcom).



# CHAPTER 7

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