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# **tld Documentation**

*Release 0.9.8*

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Extract the top level domain (TLD) from the URL given. List of TLD names is taken from [Mozilla](#).

Optionally raises exceptions on non-existing TLDs or silently fails (if `fail_silently` argument is set to True).



# CHAPTER 1

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## Prerequisites

---

- Python 2.7, 3.4, 3.5, 3.6, 3.7, 3.8 and PyPy



## CHAPTER 2

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### Documentation

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Documentation is available on [Read the Docs](#).



## CHAPTER 3

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### Installation

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Latest stable version on PyPI:

```
pip install tld
```

Or latest stable version from GitHub:

```
pip install https://github.com/barseghyanartur/tld/archive/stable.tar.gz
```

Or latest stable version from BitBucket:

```
pip install https://bitbucket.org/barseghyanartur/tld/get/stable.tar.gz
```



In addition to examples below, see the [jupyter notebook](#) workbook file.

### 4.1 Get the TLD name as string from the URL given

```
from tld import get_tld

get_tld("http://www.google.co.uk")
# 'co.uk'

get_tld("http://www.google.idontexist", fail_silently=True)
# None
```

### 4.2 Get the TLD as an object

```
from tld import get_tld

res = get_tld("http://some.subdomain.google.co.uk", as_object=True)

res
# 'co.uk'

res.subdomain
# 'some.subdomain'

res.domain
# 'google'

res.tld
# 'co.uk'
```

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```
res.fld
# 'google.co.uk'

res.parsed_url
# SplitResult(
#     scheme='http',
#     netloc='some.subdomain.google.co.uk',
#     path='',
#     query='',
#     fragment=''
# )
```

### 4.3 Get TLD name, ignoring the missing protocol

```
from tld import get_tld, get_fld

get_tld("www.google.co.uk", fix_protocol=True)
# 'co.uk'

get_fld("www.google.co.uk", fix_protocol=True)
# 'google.co.uk'
```

### 4.4 Return TLD parts as tuple

```
from tld import parse_tld

parse_tld('http://www.google.com')
# 'com', 'google', 'www'
```

### 4.5 Get the first level domain name as string from the URL given

```
from tld import get_fld

get_fld("http://www.google.co.uk")
# 'google.co.uk'

get_fld("http://www.google.idontexist", fail_silently=True)
# None
```

### 4.6 Check if some tld is a valid tld

```
from tld import is_tld

is_tld('co.uk')
```

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```
# True

is_tld('uk')
# True

is_tld('tld.doesnotexist')
# False

is_tld('www.google.com')
# False
```



---

### Update the list of TLD names

---

To update/sync the tld names with the most recent version run the following from your terminal:

```
update-tld-names
```

Or simply do:

```
from tld.utils import update_tld_names  
update_tld_names()
```



## CHAPTER 6

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### Troubleshooting

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If somehow domain names listed [here](#) are not recognised, make sure you have the most recent version of TLD names in your virtual environment:

```
update-tld-names
```



# CHAPTER 7

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## Testing

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Simply type:

```
./runtests.py
```

Or use tox:

```
tox
```

Or use tox to check specific env:

```
tox -e py36
```



---

## Writing documentation

---

Keep the following hierarchy.

```
=====  
title  
=====  
  
header  
=====  
  
sub-header  
-----  
  
sub-sub-header  
~~~~~  
  
sub-sub-sub-header  
^^^^^^  
  
sub-sub-sub-sub-header  
++++++  
  
sub-sub-sub-sub-sub-header  
*****
```



## CHAPTER 9

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License

---

MPL-1.1 OR GPL-2.0-only OR LGPL-2.1-or-later



## CHAPTER 10

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Support

---

For any issues contact me at the e-mail given in the *Author* section.



# CHAPTER 11

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Author

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Artur Barseghyan <[artur.barseghyan@gmail.com](mailto:artur.barseghyan@gmail.com)>



Contents:

## 12.1 Release history and notes

Sequence based identifiers are used for versioning (schema follows below):

```
major.minor[.revision]
```

- It's always safe to upgrade within the same minor version (for example, from 0.3 to 0.3.4).
- Minor version changes might be backwards incompatible. Read the release notes carefully before upgrading (for example, when upgrading from 0.3.4 to 0.4).
- All backwards incompatible changes are mentioned in this document.

### 12.1.1 0.9.8

2019-11-15

- Fix for occasional issue when some domains are not correctly recognised.

### 12.1.2 0.9.7

2019-10-30

---

**Note:** This release is dedicated to my newborn daughter. Happy birthday, my dear Ani.

---

- Handling urls that are only a TLD.
- Accepts already splitted URLs.

- Tested against Python 3.8.

### **12.1.3 0.9.6**

2019-09-12

- Fix for `update-tld-names` returns a non-zero exit code on success (introduced with optimisations in 0.9.4).
- Minor tests improvements.

### **12.1.4 0.9.5**

2019-09-11

- Tests improvements.

### **12.1.5 0.9.4**

2019-09-11

- Optimisations in `setup.py`, tests and console scripts.
- Skip testing the `update-tld-names` functionality if no internet is available.

### **12.1.6 0.9.3**

2019-04-05

- Added `is_tld` function.
- Docs updated.
- Upgrade test suite.

### **12.1.7 0.9.2**

2019-01-10

- Fix an issue causing certain punycode TLDs to be deemed invalid.
- Tested against Python 3.7.
- Added tests for commands.
- Dropped Python 2.6 support.
- TLD source updated to the latest version.

### **12.1.8 0.9.1**

2018-07-09

- Correctly handling nested TLDs.

## 12.1.9 0.9

2018-06-14

---

**Note:** This release contains backward incompatible changes. You should update your code.

The `active_only` option has been removed from `get_tld`, `get_fld` and `parse_url` functions. Update your code accordingly.

---

- Removed `active_only` option from `get_tld`, `get_fld` and `parse_url` functions.
- Correctly handling exceptions (!) in the original TLD list.
- Fixes in documentation.
- Added `parse_tld` function.
- Fixes the `python setup.py test` command.

## 12.1.10 0.8

2018-06-13

---

**Note:** This release contains backward incompatible changes. You should update your code.

Old `get_tld` functionality is moved to `get_fld` (first-level domain definition). The `as_object` argument (False by default) has been deprecated for `get_fld`.

```
res = get_tld("http://www.google.co.uk", as_object=True)
```

### Old behaviour

```
In: res.domain
Out: 'google'

In: res.extension
Out: 'co.uk'

In: res.subdomain
Out: 'www'

In: res.suffix
Out: 'co.uk'

In: res.tld
Out: 'google.co.uk'
```

### New behaviour

```
In: res.fld
Out: 'google.co.uk'

In: res.tld
Out: 'co.uk'

In: res.domain
```

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```
Out: 'google'  
  
In: res.subdomain  
Out: 'www'
```

When used without `as_object` it returns `co.uk`.

### Recap

If you have been happily using old version of `get_tld` function without `as_object` argument set to `True`, you might want to replace `get_tld` import with `get_fld` import:

```
# Old  
from tld import get_tld  
get_tld('http://google.co.uk')  
  
# New  
from tld import get_fld  
get_fld('http://google.co.uk')
```

- Move to a Trie to match TLDs. This brings a speed up of 15-20%.
- It's now possible to search in public, private or all suffixes (old behaviour). Use `search_public` and `search_private` arguments accordingly. By default (to support old behavior), both are set to `True`.
- Correct TLD definitions.
- Domains like `*****.xn--fiqs8s` are now recognized as well.
- Due to usage of `urlsplit` instead of `urlparse`, the initial list of TLDs is assembled quicker (a speed-up of 15-20%).
- Docs/ directory is included in source distribution tarball.
- More tests.

## 12.1.11 0.7.10

2018-04-07

- The `fix_protocol` argument respects protocol relative URLs.
- Change year in the license.
- Improved docstrings.
- TLD source updated to the latest version.

## 12.1.12 0.7.9

2017-05-02

- Added base path override for local `.dat` file.
- `python setup.py test` can be used to execute the tests

### 12.1.13 0.7.8

2017-02-19

- Fix relative import in non-package for update-tls-names script. #15
- `get_tld` got a new argument `fix_protocol`, which fixes the missing protocol, having prepended “https” if missing or incorrect.

### 12.1.14 0.7.7

2017-02-09

- Tested against Python 3.5, 3.6 and PyPy.
- pep8 fixes.
- removed deprecated `tld.update` module. Use `update-tld-names` command instead.

### 12.1.15 0.7.6

2016-01-23

- Minor fixes.

### 12.1.16 0.7.5

2015-11-22

- Minor fixes.
- Updated tld names file to the latest version.

### 12.1.17 0.7.4

2015-09-24

- Exposed TLD initialization as `get_tld_names`.

### 12.1.18 0.7.3

2015-07-18

- Support for wheel packages.
- Fixed failure on some unicode domains.
- TLD source updated to the latest version.
- Documentation updated.

### 12.1.19 0.7.2

2014-09-28

- Minor fixes.

### **12.1.20 0.7.1**

2014-09-23

- Force lower case of the URL for correct search.

### **12.1.21 0.7**

2014-08-14

- Making it possible to obtain object instead of just extracting the TLD by setting the `as_object` argument of `get_tld` function to `True`.

### **12.1.22 0.6.4**

2014-05-21

- Softened dependencies and lowered the `six` package version requirement to 1.4.0.
- Documentation improvements.

### **12.1.23 0.6.3**

2013-12-05

- Speed up search

### **12.1.24 0.6.2**

2013-12-03

- Fix for URLs with a port not handled correctly.
- Adding licenses.

### **12.1.25 0.6.1**

2013-09-15

- Minor fixes.
- Credits added.

### **12.1.26 0.6**

2013-09-12

- Fixes for Python 3 (Windows encoding).

### **12.1.27 0.5**

2013-09-13

- Python 3 support added.

## 12.1.28 0.4

2013-08-03

- Tiny code improvements.
- Tests added.

## 12.2 tld package

### 12.2.1 Subpackages

#### 12.2.1.1 tld.commands package

##### 12.2.1.1.1 Submodules

##### 12.2.1.1.2 tld.commands.update\_tld\_names module

##### 12.2.1.1.3 Module contents

#### 12.2.1.2 tld.sources package

##### 12.2.1.2.1 Submodules

##### 12.2.1.2.2 tld.sources.mozilla module

##### 12.2.1.2.3 Module contents

### 12.2.2 Submodules

#### 12.2.3 tld.base module

#### 12.2.4 tld.bench module

#### 12.2.5 tld.conf module

#### 12.2.6 tld.defaults module

#### 12.2.7 tld.exceptions module

**exception** tld.exceptions.**TldBadUrl** (*url*)

Bases: exceptions.ValueError

TldBadUrl.

Supposed to be thrown when bad URL is given.

**exception** tld.exceptions.**TldDomainNotFound** (*domain\_name*)

Bases: exceptions.ValueError

TldDomainNotFound.

Supposed to be thrown when domain name is not found (didn't match) the local TLD policy.

**exception** `tld.exceptions.TldImproperlyConfigured` (*msg=None*)

Bases: `exceptions.Exception`

`TldImproperlyConfigured`.

Supposed to be thrown when code is improperly configured. Typical use-case is when user tries to use `get_tld` function with both `search_public` and `search_private` set to `False`.

**exception** `tld.exceptions.TldIOError` (*msg=None*)

Bases: `exceptions.IOError`

`TldIOError`.

Supposed to be thrown when problems with reading/writing occur.

## 12.2.8 tld.helpers module

`tld.helpers.project_dir` (*base*)

Project dir.

`tld.helpers.PROJECT_DIR` (*base*)

Project dir.

## 12.2.9 tld.tests module

### 12.2.10 tld.utils module

`tld.utils.get_fld` (*url*, *fail\_silently=False*, *fix\_protocol=False*, *search\_public=True*,  
*search\_private=True*, *\*\*kwargs*)

Extract the first level domain.

Extract the top level domain based on the mozilla's effective TLD names dat file. Returns a string. May throw `TldBadUrl` or `TldDomainNotFound` exceptions if there's bad URL provided or no TLD match found respectively.

#### Parameters

- **url** (*str*) – URL to get top level domain from.
- **fail\_silently** (*bool*) – If set to `True`, no exceptions are raised and `None` is returned on failure.
- **fix\_protocol** (*bool*) – If set to `True`, missing or wrong protocol is ignored (`https` is appended instead).
- **search\_public** (*bool*) – If set to `True`, search in public domains.
- **search\_private** (*bool*) – If set to `True`, search in private domains.

**Returns** String with top level domain (if `as_object` argument is set to `False`) or a `tld.utils.Result` object (if `as_object` argument is set to `True`); returns `None` on failure.

**Return type** `str`

`tld.utils.get_tld` (*url*, *fail\_silently=False*, *as\_object=False*, *fix\_protocol=False*, *search\_public=True*,  
*search\_private=True*)

Extract the top level domain.

Extract the top level domain based on the mozilla's effective TLD names dat file. Returns a string. May throw `TldBadUrl` or `TldDomainNotFound` exceptions if there's bad URL provided or no TLD match found respectively.

#### Parameters

- **url** (*str*) – URL to get top level domain from.
- **fail\_silently** (*bool*) – If set to `True`, no exceptions are raised and `None` is returned on failure.
- **as\_object** (*bool*) – If set to `True`, `tld.utils.Result` object is returned, domain, suffix and tld properties.
- **fix\_protocol** (*bool*) – If set to `True`, missing or wrong protocol is ignored (`https` is appended instead).
- **search\_public** (*bool*) – If set to `True`, search in public domains.
- **search\_private** (*bool*) – If set to `True`, search in private domains.

**Returns** String with top level domain (if `as_object` argument is set to `False`) or a `tld.utils.Result` object (if `as_object` argument is set to `True`); returns `None` on failure.

**Return type** `str`

`tld.utils.get_tld_names` (*fail\_silently=False, retry\_count=0*)

Build the `tlds` list if empty. Recursive.

#### Parameters

- **fail\_silently** (*bool*) – If set to `True`, no exceptions are raised and `None` is returned on failure.
- **retry\_count** (*int*) – If greater than 1, we raise an exception in order to avoid infinite loops.

**Returns** List of TLD names

**Return type** `obj:tld.utils.Trie`

`tld.utils.is_tld` (*value, search\_public=True, search\_private=True*)

Check if given URL is tld.

#### Parameters

- **value** (*str*) – URL to get top level domain from.
- **search\_public** (*bool*) – If set to `True`, search in public domains.
- **search\_private** (*bool*) – If set to `True`, search in private domains.

**Returns**

**Return type** `bool`

`tld.utils.parse_tld` (*url, fail\_silently=False, fix\_protocol=False, search\_public=True, search\_private=True*)

Parse TLD into parts.

#### Parameters

- **url** –
- **fail\_silently** –
- **fix\_protocol** –

- `search_public` –
- `search_private` –

**Returns**

**Return type** tuple

`tld.utils.process_url(url, fail_silently=False, fix_protocol=False, search_public=True, search_private=True)`

Process URL.

**Parameters**

- `url` –
- `fail_silently` –
- `fix_protocol` –
- `search_public` –
- `search_private` –

**Returns**

`tld.utils.reset_tld_names()`

Reset the `tld_names` to empty value.

**Returns**

**class** `tld.utils.Result` (*tld, domain, subdomain, parsed\_url*)

Bases: object

Container.

**domain**

**extension**

Alias of `tld`.

**Return str**

**fld**

First level domain.

**Returns**

**Return type** str

**parsed\_url**

**subdomain**

**suffix**

Alias of `tld`.

**Return str**

**tld**

`tld.utils.update_tld_names(fail_silently=False)`

Update the local copy of TLDs file.

**Parameters** `fail_silently` (*bool*) – If set to True, no exceptions is raised on failure but boolean False returned.

**Returns** True on success, False on failure.

**Return type** bool

`tld.utils.update_tld_names_cli()`  
CLI wrapper for `update_tld_names`.

Since `update_tld_names` returns `True` on success, we need to negate the result to match CLI semantics.

## 12.2.11 Module contents

`tld.get_fld(url, fail_silently=False, fix_protocol=False, search_public=True, search_private=True, **kwargs)`

Extract the first level domain.

Extract the top level domain based on the mozilla's effective TLD names dat file. Returns a string. May throw `TldBadUrl` or `TldDomainNotFound` exceptions if there's bad URL provided or no TLD match found respectively.

### Parameters

- **url** (*str*) – URL to get top level domain from.
- **fail\_silently** (*bool*) – If set to `True`, no exceptions are raised and `None` is returned on failure.
- **fix\_protocol** (*bool*) – If set to `True`, missing or wrong protocol is ignored (`https` is appended instead).
- **search\_public** (*bool*) – If set to `True`, search in public domains.
- **search\_private** (*bool*) – If set to `True`, search in private domains.

**Returns** String with top level domain (if `as_object` argument is set to `False`) or a `tld.utils.Result` object (if `as_object` argument is set to `True`); returns `None` on failure.

**Return type** *str*

`tld.get_tld(url, fail_silently=False, as_object=False, fix_protocol=False, search_public=True, search_private=True)`

Extract the top level domain.

Extract the top level domain based on the mozilla's effective TLD names dat file. Returns a string. May throw `TldBadUrl` or `TldDomainNotFound` exceptions if there's bad URL provided or no TLD match found respectively.

### Parameters

- **url** (*str*) – URL to get top level domain from.
- **fail\_silently** (*bool*) – If set to `True`, no exceptions are raised and `None` is returned on failure.
- **as\_object** (*bool*) – If set to `True`, `tld.utils.Result` object is returned, `domain`, `suffix` and `tld` properties.
- **fix\_protocol** (*bool*) – If set to `True`, missing or wrong protocol is ignored (`https` is appended instead).
- **search\_public** (*bool*) – If set to `True`, search in public domains.
- **search\_private** (*bool*) – If set to `True`, search in private domains.

**Returns** String with top level domain (if `as_object` argument is set to `False`) or a `tld.utils.Result` object (if `as_object` argument is set to `True`); returns `None` on failure.

**Return type** str

`tld.get_tld_names` (*fail\_silently=False, retry\_count=0*)

Build the `tlds` list if empty. Recursive.

**Parameters**

- **fail\_silently** (*bool*) – If set to True, no exceptions are raised and None is returned on failure.
- **retry\_count** (*int*) – If greater than 1, we raise an exception in order to avoid infinite loops.

**Returns** List of TLD names

**Return type** `obj:tld.utils.Trie`

`tld.is_tld` (*value, search\_public=True, search\_private=True*)

Check if given URL is tld.

**Parameters**

- **value** (*str*) – URL to get top level domain from.
- **search\_public** (*bool*) – If set to True, search in public domains.
- **search\_private** (*bool*) – If set to True, search in private domains.

**Returns**

**Return type** bool

`tld.parse_tld` (*url, fail\_silently=False, fix\_protocol=False, search\_public=True, search\_private=True*)

Parse TLD into parts.

**Parameters**

- **url** –
- **fail\_silently** –
- **fix\_protocol** –
- **search\_public** –
- **search\_private** –

**Returns**

**Return type** tuple

**class** `tld.Result` (*tld, domain, subdomain, parsed\_url*)

Bases: object

Container.

**domain**

**extension**

Alias of `tld`.

**Return str**

**fld**

First level domain.

**Returns**

**Return type** str

**parsed\_url**

**subdomain**

**suffix**

Alias of `tld`.

**Return str**

**tld**

`tld.update_tld_names` (*fail\_silently=False*)

Update the local copy of TLDs file.

**Parameters** **fail\_silently** (*bool*) – If set to True, no exceptions is raised on failure but boolean False returned.

**Returns** True on success, False on failure.

**Return type** bool



# CHAPTER 13

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## Indices and tables

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