
purl Documentation

Release 1.2

David Winterbottom

April 26, 2016

1	API	3
	Python Module Index	7

purl.URL is a simple, immutable URL class that can make your life easier.

There's only two classes to be aware of.

```
class url.URL (url_str=None, host=None, username=None, password=None, scheme=None, port=None,  
               path=None, query=None, fragment=None)
```

The constructor can be used in two ways:

1.Pass a URL string:

```
>>> URL('http://www.google.com/search?q=testing').as_string()  
u'http://www.google.com/search?q=testing'
```

2.Pass keyword arguments:

```
>>> URL(host='www.google.com', path='/search', query='q=testing').as_string()  
u'http://www.google.com/search?q=testing'
```

If you pass both a URL string and keyword args, then the values of keyword args take precedence.

```
add_path_segment (value)
```

Add a new path segment to the end of the current string

Parameters **value** (*string*) – the new path segment to use

Example:

```
>>> u = URL('http://example.com/foo/')  
>>> u.add_path_segment('bar').as_string()  
u'http://example.com/foo/bar'
```

```
append_query_param (key, value)
```

Append a query parameter

Parameters

- **key** (*string*) – The query param key
- **value** (*string*) – The new value

```
domain (value=None)
```

Return the host

Parameters **value** (*string*) – new host string

```
fragment (value=None)
```

Return or set the fragment (hash)

Parameters **value** (*string*) – the new fragment to use

Returns string or new [URL](#) instance

classmethod from_string (*url_str*)

Factory method to create a new instance based on a passed string

This method is deprecated now

has_query_param (*key*)

Test if a given query parameter is present

Parameters **key** (*string*) – key to test for

has_query_params (*keys*)

Test if a given set of query parameters are present

Parameters **keys** (*list*) – keys to test for

host (*value=None*)

Return the host

Parameters **value** (*string*) – new host string

netloc ()

Return the netloc

password (*value=None*)

Return or set the password

Parameters **value** (*string*) – the new password to use

Returns string or new [URL](#) instance

path (*value=None*)

Return or set the path

Parameters **value** (*string*) – the new path to use

Returns string or new [URL](#) instance

path_segment (*index, value=None, default=None*)

Return the path segment at the given index

Parameters

- **index** (*integer*) –
- **value** (*string*) – the new segment value
- **default** (*string*) – the default value to return if no path segment exists with the given index

path_segments (*value=None*)

Return the path segments

Parameters **value** (*list*) – the new path segments to use

port (*value=None*)

Return or set the port

Parameters **value** (*string*) – the new port to use

Returns string or new [URL](#) instance

query (*value=None*)

Return or set the query string

Parameters **value** (*string*) – the new query string to use

Returns string or new [URL](#) instance

query_param (*key*, *value=None*, *default=None*, *as_list=False*)

Return or set a query parameter for the given key

The value can be a list.

Parameters

- **key** (*string*) – key to look for
- **default** (*string*) – value to return if key isn't found
- **as_list** (*boolean*) – whether to return the values as a list
- **value** (*string*) – the new query parameter to use

query_params (*value=None*)

Return or set a dictionary of query params

Parameters **value** (*dict*) – new dictionary of values

remove_query_param (*key*, *value=None*)

Remove a query param from a URL

Set the value parameter if removing from a list.

Parameters

- **key** (*string*) – The key to delete
- **value** (*string*) – The value of the param to delete (of more than one)

scheme (*value=None*)

Return or set the scheme.

Parameters **value** (*string*) – the new scheme to use

Returns string or new [URL](#) instance

subdomain (*index*, *value=None*)

Return a subdomain or set a new value and return a new [URL](#) instance.

Parameters

- **index** (*integer*) – 0-indexed subdomain
- **value** (*string*) – New subdomain

subdomains (*value=None*)

Returns a list of subdomains or set the subdomains and returns a new [URL](#) instance.

Parameters **value** (*list*) – a list of subdomains

username (*value=None*)

Return or set the username

Parameters **value** (*string*) – the new username to use

Returns string or new [URL](#) instance

class `purl.Template` (*url_str*)

p

`purl`, 3

A

`add_path_segment()` (purl.URL method), 3
`append_query_param()` (purl.URL method), 3

D

`domain()` (purl.URL method), 3

F

`fragment()` (purl.URL method), 3
`from_string()` (purl.URL class method), 4

H

`has_query_param()` (purl.URL method), 4
`has_query_params()` (purl.URL method), 4
`host()` (purl.URL method), 4

N

`netloc()` (purl.URL method), 4

P

`password()` (purl.URL method), 4
`path()` (purl.URL method), 4
`path_segment()` (purl.URL method), 4
`path_segments()` (purl.URL method), 4
`port()` (purl.URL method), 4
`purl` (module), 3

Q

`query()` (purl.URL method), 4
`query_param()` (purl.URL method), 5
`query_params()` (purl.URL method), 5

R

`remove_query_param()` (purl.URL method), 5

S

`scheme()` (purl.URL method), 5
`subdomain()` (purl.URL method), 5
`subdomains()` (purl.URL method), 5

T

`Template` (class in purl), 5

U

`URL` (class in purl), 3
`username()` (purl.URL method), 5