purl Documentation

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Contents

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

CHAPTER 1

API

There's only two classes to be aware of.

class `purl.`**`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*)

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