
BuildURL

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BUILDURL

1.1 buildurl package

1.1.1 buildurl.BuildURL

class buildurl.**BuildURL**(*base: str = "", force_trailing_slash: bool = False*)

Bases: object

Tool to simplify the creation of URLs with query parameters.

Parameters

- **base** – The base URL to build upon.
- **force_trailing_slash** – Whether or not to forcefully include a trailing slash at the end of *path*, *False* by default.

Examples

```
>>> from buildurl import BuildURL
>>> url = BuildURL("https://pypi.org")
>>> print(url.get)
https://pypi.org
>>> url = BuildURL("https://example.com/test",
... force_trailing_slash=True)
>>> print(url.get)
https://example.com/test/
```

__add__(*query: Union[str, Dict[str, Any]]*) → *buildurl.builder.BuildURL*

Generate new URL with added query.

Equivalent to first copying the URL, then using `add_query`.

Parameters **query** – The query key and value to add.

Returns New BuildURL instance.

Examples

```
>>> url = BuildURL("https://example.com")
>>> new_url = url + {"test": "it"}
>>> print(url.get)
https://example.com
>>> print(new_url.get)
https://example.com?test=it
```

__iadd__(*query: Union[str, Dict[str, Any]]*) → *buildurl.builder.BuildURL*

Add query arguments inplace.

Essentially a shortcut to `add_query`.

Parameters **query** – The query key and value to add.

Returns Reference to self.

Examples

```
>>> url = BuildURL("https://example.com")
>>> url += {"key": "value"}
>>> print(url.get)
https://example.com?key=value
>>> url += "another=query&more=stuff"
>>> print(url.get)
https://example.com?key=value&another=query&more=stuff
```

__init__(*base: str = "", force_trailing_slash: bool = False*)

Initialize a new instance of BuildURL.

__itruediv__(*path: Union[str, List[str]]*) → *buildurl.builder.BuildURL*

Add new path part to the URL inplace.

Essentially a shortcut to `add_path`.

Parameters **path** – New path to add.

Returns Reference to self.

Examples

```
>>> url = BuildURL("https://example.com")
>>> url /= "test"
>>> print(url.get)
https://example.com/test
>>> url /= ["more", "paths"]
>>> print(url.get)
https://example.com/test/more/paths
>>> url /= "/again/and/again/"
>>> print(url.get)
https://example.com/test/more/paths/again/and/again/
```

__len__() → int

Length of the generated URL.

`__repr__()` → str

Representation of the current instance.

Returns String representation of self.

Examples

```
>>> url = BuildURL("https://example.com/test?now=true")
>>> print(repr(url))
BuildURL(base='https://example.com/test?now=true', force_trailing_slash=False)
```

`__str__()` → str

Shortcut for getting the URL.

Can be obtained by printing the instance of the class.

Returns Generated URL.

Examples

```
>>> url = BuildURL("https://example.com")
>>> url /= "test"
>>> print(str(url))
https://example.com/test
>>> print(url)
https://example.com/test
```

`__truediv__(path: Union[str, List[str]])` → *buildurl.builder.BuildURL*

Generate new URL with added path.

Equivalent to first copying the URL, then using `add_path`.

Parameters **path** – New path to add.

Returns New BuildURL instance.

Examples

```
>>> url = BuildURL("https://example.com")
>>> new_url = url / "testing"
>>> print(url.get)
https://example.com
>>> print(new_url.get)
https://example.com/testing
```

`add_path(*args: Union[str, List[str]])` → *buildurl.builder.BuildURL*

Add to the path.

Parameters ***args** – The paths to add. Can be a string containing a single path, multiple paths separated by `/`, or a list of single path strings.

Returns Reference to self.

Examples

```
>>> url = BuildURL("https://example.com")
>>> url.add_path("test")
BuildURL(...)
>>> print(url.get)
https://example.com/test
>>> url.add_path(["more", "paths"]).add_path("/again/and/again/")
BuildURL(...)
>>> print(url.get)
https://example.com/test/more/paths/again/and/again/
>>> url = BuildURL("https://example.com")
>>> url.add_path("never", "stopping", "to/play", ["with", "paths"])
BuildURL(...)
>>> print(url.get)
https://example.com/never/stopping/to/play/with/paths
```

add_query(*args: Union[str, Dict[str, Any]], **kwargs) → *buildurl.builder.BuildURL*

Add a query argument.

Parameters

- ***args** – The query keys and values to add. Can be a string containing the keys and values, like “key1=value1&key2=value2”, or a dict, like {“key1”: “value1”, “key2”: “value2”}.
- ****kwargs** – Keyword arguments corresponding to key-value pairs.

Returns Reference to self.

Examples

```
>>> url = BuildURL("https://example.com")
>>> url.add_query({"key": "value"})
BuildURL(...)
>>> print(url.get)
https://example.com?key=value
>>> url.add_query("another=query&more=stuff")
BuildURL(...)
>>> print(url.get)
https://example.com?key=value&another=query&more=stuff
>>> url.add_query(a="b").add_query("c=d", "e=f")
BuildURL(...)
>>> print(url.get)
https://example.com?key=value&another=query&more=stuff&a=b&c=d&e=f
```

copy() → *buildurl.builder.BuildURL*

Create a deep copy of itself.

Examples

```
>>> url = BuildURL("https://example.com")
>>> url_copy = url.copy()
>>> url /= "test"
>>> print(url.get)
https://example.com/test
>>> print(url_copy.get)
https://example.com
```

property get: `str`

Get the generated URL.

property parts: `Tuple[str, ...]`

Tuple of necessary parts to construct the URL.

property path: `str`

Path string.

property query: `str`

Query string.

set_force_trailing_slash(*enabled: bool = True*) → *buildurl.builder.BuildURL*

Set the *force_trailing_slash* attribute.

Parameters **enabled** – The new value for *force_trailing_slash*, default *True*.

Returns Reference to self.

Examples

```
>>> url = BuildURL("https://example.com")
>>> url.set_force_trailing_slash().add_path("test")
BuildURL(base='https://example.com/test/', force_trailing_slash=True)
>>> url.set_force_trailing_slash(False)
BuildURL(base='https://example.com/test', force_trailing_slash=False)
```


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