
user_agent Documentation

Release 0.1.9

Gregory Petukhov, jamb0ss

Aug 05, 2017

Contents

1	External links	3
2	Indices and tables	5
	Python Module Index	7

The user_agent is a library for:

- generating extended user agent config that could be used in JS environment
- generating simple user-agent string that could be used as content of User-Agent HTTP header

Supported platforms: windows, linux, mac.

Supported browsers: chrome, firefox, ie.

`user_agent.generate_user_agent` (*os=None, navigator=None, platform=None, device_type=None*)

Generates HTTP User-Agent header

Parameters

- **os** (*string or list/tuple or None*) – limit list of os for generation
- **navigator** (*string or list/tuple or None*) – limit list of browser engines for generation
- **device_type** (*list/tuple or None, possible values: "desktop", "smartphone", "tablet", "all"*) – limit possible oses by device type

Returns User-Agent string

Return type string

Raises

- **InvalidOption** – if could not generate user-agent for any combination of allowed oses and navigators
- **InvalidOption** – if any of passed options is invalid

Returns a string like:

```
Mozilla/5.0 (X11; Linux x86_64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/35.0.1916.114 Safari/537.36
```

`user_agent.generate_navigator` (*os=None, navigator=None, platform=None, device_type=None*)

Generates web navigator's config

Parameters

- **os** (*string or list/tuple or None*) – limit list of oses for generation
- **navigator** (*string or list/tuple or None*) – limit list of browser engines for generation
- **device_type** (*list/tuple or None, possible values: "desktop", "smartphone", "tablet", "all"*) – limit possible oses by device type

Returns User-Agent config

Return type dict with keys (os, name, platform, oscpu, build_version, build_id, app_version, app_name, app_code_name, product, product_sub, vendor, vendor_sub, *user_agent*)

Raises

- **InvalidOption** – if could not generate user-agent for any combination of allowed platforms and navigators
- **InvalidOption** – if any of passed options is invalid

Returns a dict like:

```
{'app_code_name': 'Mozilla',
 'app_name': 'Netscape',
 'app_version': '5.0 (Windows)',
 'build_id': '20170124100044',
 'build_version': '51.0',
 'navigator_id': 'firefox',
 'os_id': 'win',
 'oscpu': 'Windows NT 6.2',
 'platform': 'Windows NT 6.2',
 'product': 'Gecko',
 'product_sub': '20100101',
 'user_agent': 'Mozilla/5.0 (Windows NT 6.2; rv:51.0) Gecko/20100101 '
               'Firefox/51.0',
 'vendor': '',
 'vendor_sub': ''}
```

`user_agent.generate_navigator_js(os=None, navigator=None, platform=None, device_type=None)`

Generates web navigator's config with keys corresponding to keys of `windows.navigator` JavaScript object.

Parameters

- **os** (*string or list/tuple or None*) – limit list of oses for generation
- **navigator** (*string or list/tuple or None*) – limit list of browser engines for generation
- **device_type** (*list/tuple or None, possible values: "desktop", "smartphone", "tablet", "all"*) – limit possible oses by device type

Returns User-Agent config

Return type dict with keys (TODO)

Raises

- **InvalidOption** – if could not generate user-agent for any combination of allowed oses and navigators
- **InvalidOption** – if any of passed options is invalid

Returns a dict like:

```
{'appCodeName': 'Mozilla',
 'appName': 'Netscape',
 'appVersion': '5.0 (Macintosh; Intel Mac OS X 10_8_1) AppleWebKit/537.36 '
               '(KHTML, like Gecko) Chrome/54.0.2840.93 Safari/537.36',
 'buildID': None,
 'oscpu': 'Intel Mac OS X 10_8_1',
 'platform': 'Macintosh; Intel Mac OS X 10_8_1',
 'product': 'Gecko',
 'productSub': '20030107',
 'userAgent': 'Mozilla/5.0 (Macintosh; Intel Mac OS X 10_8_1) '
               'AppleWebKit/537.36 (KHTML, like Gecko) Chrome/54.0.2840.93 '
               'Safari/537.36',
 'vendor': 'Google Inc.',
 'vendorSub': ''}
```

CHAPTER 1

External links

- **Specifications:**

- https://developer.mozilla.org/en-US/docs/Web/HTTP/Gecko_user_agent_string_reference
- [http://msdn.microsoft.com/en-us/library/ms537503\(VS.85\).aspx](http://msdn.microsoft.com/en-us/library/ms537503(VS.85).aspx)
- <https://developer.chrome.com/multidevice/user-agent>

- **Lists of user agents:**

- <http://www.useragentstring.com/>
- <http://www.user-agents.org/>

- **Browser Release history:**

- https://en.wikipedia.org/wiki/Firefox_release_history
- https://en.wikipedia.org/wiki/Google_Chrome_release_history

CHAPTER 2

Indices and tables

- `genindex`
- `modindex`
- `search`

u

`user_agent`, [1](#)

G

`generate_navigator()` (in module `user_agent`), [1](#)
`generate_navigator_js()` (in module `user_agent`), [2](#)
`generate_user_agent()` (in module `user_agent`), [1](#)

U

`user_agent` (module), [1](#)