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# **user\_agent Documentation**

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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

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## External links

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- **Specifications:**

- [https://developer.mozilla.org/en-US/docs/Web/HTTP/Gecko\\_user\\_agent\\_string\\_reference](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/Firefox_release_history)
- [https://en.wikipedia.org/wiki/Google\\_Chrome\\_release\\_history](https://en.wikipedia.org/wiki/Google_Chrome_release_history)





## CHAPTER 2

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