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# **qutebrowser extensions Documentation**

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**CONTENTS:**

<b>1</b>	<b>API modules</b>	<b>1</b>
1.1	cmdutils module . . . . .	1
1.2	apitypes module . . . . .	3
1.3	config module . . . . .	4
1.4	downloads module . . . . .	4
1.5	hook module . . . . .	5
1.6	interceptor module . . . . .	5
1.7	message module . . . . .	6
<b>2</b>	<b>Tab API</b>	<b>7</b>
<b>3</b>	<b>Web element API</b>	<b>13</b>
<b>4</b>	<b>Indices and tables</b>	<b>15</b>
	<b>Python Module Index</b>	<b>17</b>
	<b>Index</b>	<b>19</b>



## API MODULES

### 1.1 cmdutils module

qutebrowser has the concept of functions which are exposed to the user as commands.

Creating a new command is straightforward:

```
from qutebrowser.api import cmdutils

@cmdutils.register(...)
def foo():
    ...
```

The command's arguments are automatically deduced by inspecting your function.

The types of the function arguments are inferred based on their default values, e.g., an argument `foo=True` will be converted to a flag `-f/--foo` in qutebrowser's commandline.

The type can be overridden using Python's function annotations:

```
@cmdutils.register(...)
def foo(bar: int, baz=True):
    ...
```

Possible values:

- A callable (int, float, etc.): Gets called to validate/convert the value.
- A python enum type: All members of the enum are possible values.
- A `typing.Union` of multiple types above: Any of these types are valid values, e.g., `typing.Union[str, int]`.

**exception** `qutebrowser.api.cmdutils.CommandError`

Raised when a command encounters an error while running.

If your command handler encounters an error and cannot continue, raise this exception with an appropriate error message:

```
raise cmdexc.CommandError("Message")
```

The message will then be shown in the qutebrowser status bar.

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**Note:** You should only raise this exception while a command handler is run. Raising it at another point causes qutebrowser to crash due to an unhandled exception.

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`qutebrowser.api.cmdutils.check_overflow` (*arg: int, ctype: str*) → None

Check if the given argument is in bounds for the given type.

**Parameters**

- **arg** – The argument to check.
- **ctype** – The C++/Qt type to check as a string ('int'/'int64').

`qutebrowser.api.cmdutils.check_exclusive` (*flags: Iterable[bool], names: Iterable[str]*) → None

Check if only one flag is set with exclusive flags.

Raise a `CommandError` if not.

**Parameters**

- **flags** – The flag values to check.
- **names** – A list of names (corresponding to the flags argument).

**class** `qutebrowser.api.cmdutils.register` (\*, *instance: str = None, name: str = None, \*\*kwargs*)

Decorator to register a new command handler.

**class** `qutebrowser.api.cmdutils.argument` (*argname: str, \*\*kwargs*)

Decorator to customize an argument.

You can customize how an argument is handled using the `@cmdutils.argument` decorator *after* `@cmdutils.register`. This can, for example, be used to customize the flag an argument should get:

```
@cmdutils.register(...)
@cmdutils.argument('bar', flag='c')
def foo(bar):
    ...
```

For a `str` argument, you can restrict the allowed strings using `choices`:

```
@cmdutils.register(...)
@cmdutils.argument('bar', choices=['val1', 'val2'])
def foo(bar: str):
    ...
```

For typing Union types, the given choices are only checked if other types (like `int`) don't match.

The following arguments are supported for `@cmdutils.argument`:

- **flag**: Customize the short flag (`-x`) the argument will get.
- **value**: Tell qutebrowser to fill the argument with special values:
  - `value=cmdutils.Value.count`: The count given by the user to the command.
  - `value=cmdutils.Value.win_id`: The window ID of the current window.
  - `value=cmdutils.Value.cur_tab`: The tab object which is currently focused.
- **completion**: A completion function to use when completing arguments for the given command.
- **choices**: The allowed string choices for the argument.

The name of an argument will always be the parameter name, with any trailing underscores stripped and underscores replaced by dashes.

**class** `qutebrowser.api.cmdutils.KeyMode`

Key input modes.

```

normal = 1
    Normal mode (no mode was entered)

hint = 2
    Hint mode (showing labels for links)

command = 3
    Command mode (after pressing the colon key)

yesno = 4
    Yes/No prompts

prompt = 5
    Text prompts

insert = 6
    Insert mode (passing through most keys)

passthrough = 7
    Passthrough mode (passing through all keys)

caret = 8
    Caret mode (moving cursor with keys)

```

```

qutebrowser.api.cmdutils.Value
    alias of qutebrowser.utils.usertypes.CommandValue

```

## 1.2 apitypes module

A single tab.

```

class qutebrowser.api.apitypes.ClickTarget
    How to open a clicked link.

```

```

normal = 0
    Open the link in the current tab

tab = 1
    Open the link in a new foreground tab

tab_bg = 2
    Open the link in a new background tab

window = 3
    Open the link in a new window

hover = 4
    Only hover over the link

```

```

class qutebrowser.api.apitypes.InitContext (data_dir, config_dir, args)
    Context an extension gets in its init hook.

```

```

class qutebrowser.api.apitypes.JsWorld
    World/context to run JavaScript code in.

main = 1
    Same world as the web page's JavaScript.

application = 2
    Application world, used by qutebrowser internally.

user = 3
    User world, currently not used.

```

**jseval = 4**

World used for the jseval-command.

qutebrowser.api.apitypes.**Tab**

alias of *qutebrowser.browser.browsertab.AbstractTab*

qutebrowser.api.apitypes.**WebElemError**

alias of *qutebrowser.browser.webelem.Error*

qutebrowser.api.apitypes.**WebElement**

alias of *qutebrowser.browser.webelem.AbstractWebElement*

**exception** qutebrowser.api.apitypes.**WebTabError**

Base class for various errors.

## 1.3 config module

Access to the qutebrowser configuration.

qutebrowser.api.config.**val = None**

Simplified access to config values using attribute access. For example, to access the `content.javascript.enabled` setting, you can do:

```
if config.val.content.javascript.enabled:
    ...
```

This also supports setting configuration values:

```
config.val.content.javascript.enabled = False
```

qutebrowser.api.config.**get** (*name: str, url: PyQt5.QtCore.QUrl = None*) → Any

Get a value from the config based on a string name.

## 1.4 downloads module

APIs related to downloading files.

**class** qutebrowser.api.downloads.**TempDownload** (*item: qutebrowser.browser.qtnetworkdownloads.DownloadItem*)

A download of some data into a file object.

qutebrowser.api.downloads.**download\_temp** (*url: PyQt5.QtCore.QUrl*) → qutebrowser.api.downloads.TempDownload

Download the given URL into a file object.

The download is not saved to disk.

Returns a TempDownload object, which triggers a finished signal when the download has finished:

```
dl = downloads.download_temp(QUrl("https://www.example.com/"))
dl.finished.connect(functools.partial(on_download_finished, dl))
```

After the download has finished, its `successful` attribute can be checked to make sure it finished successfully. If so, its contents can be read by accessing the `fileobj` attribute:

```
def on_download_finished(download: downloads.TempDownload) -> None:
    if download.successful:
        print(download.fileobj.read())
        download.fileobj.close()
```



## 1.5 hook module

Hooks for extensions.

**class** qutebrowser.api.hook.**init**

Decorator to mark a function to run when initializing.

The decorated function gets called with a `qutebrowser.api.apitypes.InitContext` as argument.

Example:

```
@hook.init()
def init(_context):
    message.info("Extension initialized.")
```

**class** qutebrowser.api.hook.**config\_changed** (*option\_filter: str = None*)

Decorator to get notified about changed configs.

By default, the decorated function is called when any change in the config occurs:

```
@hook.config_changed()
def on_config_changed():
    ...
```

When an option name is passed, it's only called when the given option was changed:

```
@hook.config_changed('content.javascript.enabled')
def on_config_changed():
    ...
```

Alternatively, a part of an option name can be specified. In the following snippet, `on_config_changed` gets called when either `bindings.commands` or `bindings.key_mappings` have changed:

```
@hook.config_changed('bindings')
def on_config_changed():
    ...
```

## 1.6 interceptor module

APIs related to intercepting/blocking requests.

qutebrowser.api.interceptor.**register** (*interceptor: Callable[[qutebrowser.extensions.interceptors.Request], None]*) → None

Register a request interceptor.

Whenever a request happens, the interceptor gets called with a `Request` object.

Example:

```
def intercept(request: interceptor.Request) -> None:
    if request.request_url.host() == 'badhost.example.com':
        request.block()
```

**class** qutebrowser.api.interceptor.**Request** (*first\_party\_url, request\_url, is\_blocked=False*)

A request which can be intercepted/blocked.

**first\_party\_url** = None

The URL of the page being shown.

**request\_url = None**

The URL of the file being requested.

**block()** → None

Block this request.

## 1.7 message module

Utilities to display messages above the status bar.

`qutebrowser.api.message.error(message: str, *, stack: str = None, replace: bool = False) → None`

Display an error message.

### Parameters

- **message** – The message to show.
- **stack** – The stack trace to show (if any).
- **replace** – Replace existing messages which are still being shown.

`qutebrowser.api.message.info(message: str, *, replace: bool = False) → None`

Display an info message.

### Parameters

- **message** – The message to show.
- **replace** – Replace existing messages which are still being shown.

`qutebrowser.api.message.warning(message: str, *, replace: bool = False) → None`

Display a warning message.

### Parameters

- **message** – The message to show.
- **replace** – Replace existing messages which are still being shown.

## TAB API

**class** qutebrowser.browser.browsertab.**AbstractTab**  
An adapter for QWebView/QWebEngineView representing a single tab.

**window\_close\_requested**  
Signal emitted when a website requests to close this tab.

**link\_hovered**  
Signal emitted when a link is hovered (the hover text)

**load\_started**  
Signal emitted when a page started loading

**load\_progress**  
Signal emitted when a page is loading (progress percentage)

**load\_finished**  
Signal emitted when a page finished loading (success as bool)

**icon\_changed**  
Signal emitted when a page's favicon changed (icon as QIcon)

**title\_changed**  
Signal emitted when a page's title changed (new title as str)

**new\_tab\_requested**  
Signal emitted when a new tab should be opened (url as QUrl)

**url\_changed**  
Signal emitted when a page's URL changed (url as QUrl)

**contents\_size\_changed**  
Signal emitted when a tab's content size changed (new size as QSizeF)

**fullscreen\_requested**  
Signal emitted when a page requested full-screen (bool)

**before\_load\_started**  
Signal emitted before load starts (URL as QUrl)

**send\_event** (*evt: PyQt5.QtCore.QEvent*) → None  
Send the given event to the underlying widget.  
  
The event will be sent via QApplication.postEvent. Note that a posted event must not be re-used in any way!

**fake\_key\_press** (*key: PyQt5.QtCore.Qt.Key, modifier: PyQt5.QtCore.Qt.KeyboardModifier = 0*) → None  
Send a fake key event to this tab.

**dump\_async** (*callback: Callable[[str], None], \*, plain: bool = False*) → None  
 Dump the current page's html asynchronously.

The given callback will be called with the result when dumping is complete.

**run\_js\_async** (*code: str, callback: Callable[[Any], None] = None, \*, world: Union[qutebrowser.utils.usertypes.JsWorld, int] = None*) → None  
 Run javascript async.

The given callback will be called with the result when running JS is complete.

#### Parameters

- **code** – The javascript code to run.
- **callback** – The callback to call with the result, or None.
- **world** – A world ID (int or usertypes.JsWorld member) to run the JS in the main world or in another isolated world.

**class** qutebrowser.browser.browsertab.**AbstractAction**  
 Attribute action of AbstractTab for Qt WebActions.

**exit\_fullscreen** () → None  
 Exit the fullscreen mode.

**save\_page** () → None  
 Save the current page.

**run\_string** (*name: str*) → None  
 Run a webaction based on its name.

**show\_source** (*pygments: bool = False*) → None  
 Show the source of the current page in a new tab.

**class** qutebrowser.browser.browsertab.**AbstractPrinting**  
 Attribute printing of AbstractTab for printing the page.

**check\_pdf\_support** () → None  
 Check whether writing to PDFs is supported.  
 If it's not supported (by the current Qt version), a WebTabError is raised.

**check\_printer\_support** () → None  
 Check whether writing to a printer is supported.  
 If it's not supported (by the current Qt version), a WebTabError is raised.

**check\_preview\_support** () → None  
 Check whether showing a print preview is supported.  
 If it's not supported (by the current Qt version), a WebTabError is raised.

**to\_pdf** (*filename: str*) → bool  
 Print the tab to a PDF with the given filename.

**to\_printer** (*printer: PyQt5.QtPrintSupport.QPrinter, callback: Callable[[bool], None] = None*) → None  
 Print the tab.

#### Parameters

- **printer** – The QPrinter to print to.
- **callback** – Called with a boolean (True if printing succeeded, False otherwise)

**show\_dialog()** → None  
Print with a QDialog.

**class** qutebrowser.browser.browsertab.**AbstractSearch**  
Attribute search of AbstractTab for doing searches.

**text**  
The last thing this view was searched for.

**search\_displayed**  
Whether we're currently displaying search results in this view.

**\_flags**  
The flags of the last search (needs to be set by subclasses).

**\_widget**  
The underlying WebView widget.

**finished**  
Signal emitted when a search was finished (True if the text was found, False otherwise)

**cleared**  
Signal emitted when an existing search was cleared.

**search** (*text: str, \*, ignore\_case: qutebrowser.utils.usertypes.IgnoreCase = <IgnoreCase.never: 2>, reverse: bool = False, result\_cb: Callable[[bool], None] = None*) → None  
Find the given text on the page.

#### Parameters

- **text** – The text to search for.
- **ignore\_case** – Search case-insensitively.
- **reverse** – Reverse search direction.
- **result\_cb** – Called with a bool indicating whether a match was found.

**clear()** → None  
Clear the current search.

**prev\_result** (*\*, result\_cb: Callable[[bool], None] = None*) → None  
Go to the previous result of the current search.

**Parameters result\_cb** – Called with a bool indicating whether a match was found.

**next\_result** (*\*, result\_cb: Callable[[bool], None] = None*) → None  
Go to the next result of the current search.

**Parameters result\_cb** – Called with a bool indicating whether a match was found.

**class** qutebrowser.browser.browsertab.**AbstractZoom**  
Attribute zoom of AbstractTab for controlling zoom.

**apply\_offset** (*offset: int*) → None  
Increase/Decrease the zoom level by the given offset.

**Parameters offset** – The offset in the zoom level list.

**Returns** The new zoom percentage.

**set\_factor** (*factor: float, \*, fuzzyval: bool = True*) → None  
Zoom to a given zoom factor.

#### Parameters

- **factor** – The zoom factor as float.

- **fuzzyval** – Whether to set the NeighborLists fuzzyval.

**class** qutebrowser.browser.browsertab.**AbstractCaret**

Attribute caret of AbstractTab for caret browsing.

**selection\_toggled**

Signal emitted when the selection was toggled. (argument - whether the selection is now active)

**follow\_selected\_done**

Emitted when a follow\_selection action is done.

**class** qutebrowser.browser.browsertab.**AbstractScroller**

Attribute scroller of AbstractTab to manage scroll position.

**perc\_changed**

Signal emitted when the scroll position changed (int, int)

**before\_jump\_requested**

Signal emitted before the user requested a jump. Used to set the special ‘ mark so the user can return.

**class** qutebrowser.browser.browsertab.**AbstractHistory**

The history attribute of a AbstractTab.

**back** (count: int = 1) → None

Go back in the tab’s history.

**forward** (count: int = 1) → None

Go forward in the tab’s history.

**class** qutebrowser.browser.browsertab.**AbstractElements**

Finding and handling of elements on the page.

**find\_css** (selector: str, callback: Callable[[Sequence[webelem.AbstractWebElement]], None], error\_cb: Callable[[Exception], None], \*, only\_visible: bool = False) → None  
Find all HTML elements matching a given selector async.

If there’s an error, the callback is called with a webelem.Error instance.

#### Parameters

- **callback** – The callback to be called when the search finished.
- **error\_cb** – The callback to be called when an error occurred.
- **selector** – The CSS selector to search for.
- **only\_visible** – Only show elements which are visible on screen.

**find\_id** (elem\_id: str, callback: Callable[[Optional[webelem.AbstractWebElement]], None]) → None

Find the HTML element with the given ID async.

#### Parameters

- **callback** – The callback to be called when the search finished. Called with a WebEngineElement or None.
- **elem\_id** – The ID to search for.

**find\_focused** (callback: Callable[[Optional[webelem.AbstractWebElement]], None]) → None

Find the focused element on the page async.

**Parameters callback** – The callback to be called when the search finished. Called with a WebEngineElement or None.

**find\_at\_pos** (*pos*: *PyQt5.QtCore.QPoint*, *callback*: *Callable[[Optional[webelem.AbstractWebElement]], None]*) → *None*

Find the element at the given position async.

This is also called “hit test” elsewhere.

#### Parameters

- **pos** – The QPoint to get the element for.
- **callback** – The callback to be called when the search finished. Called with a *WebElement* or *None*.

**class** qutebrowser.browser.browsertab.**AbstractAudio**

Handling of audio/muting for this tab.

**set\_muted** (*muted*: *bool*, *override*: *bool = False*) → *None*

Set this tab as muted or not.

**Parameters override** – If set to *True*, muting/unmuting was done manually and overrides future automatic mute/unmute changes based on the URL.

**is\_recently\_audible** () → *bool*

Whether this tab has had audio playing recently.





## WEB ELEMENT API

**class** `qutebrowser.browser.webelem.AbstractWebElement` (*tab*)  
A wrapper around QtWebKit/QtWebEngine web element.

**tab**  
The tab associated with this element.

**has\_frame** ()  
Check if this element has a valid frame attached.

**geometry** ()  
Get the geometry for this element.

**classes** ()  
Get a list of classes assigned to this element.

**tag\_name** ()  
Get the tag name of this element.  
  
The returned name will always be lower-case.

**outer\_xml** ()  
Get the full HTML representation of this element.

**value** ()  
Get the value attribute for this element, or None.

**set\_value** (*value*)  
Set the element value.

**dispatch\_event** (*event*, *bubbles=False*, *cancelable=False*, *composed=False*)  
Dispatch an event to the element.

### Parameters

- **bubbles** – Whether this event should bubble.
- **cancelable** – Whether this event can be cancelled.
- **composed** – Whether the event will trigger listeners outside of a shadow root.

**insert\_text** (*text*)  
Insert the given text into the element.

**rect\_on\_view** (\*, *elem\_geometry=None*, *no\_js=False*)  
Get the geometry of the element relative to the webview.

### Parameters

- **elem\_geometry** – The geometry of the element, or None.

- **no\_js** – Fall back to the Python implementation.

**is\_writable()**

Check whether an element is writable.

**is\_content\_editable()**

Check if an element has a contenteditable attribute.

**Parameters** **elem** – The QWebElement to check.

**Returns** True if the element has a contenteditable attribute, False otherwise.

**is\_editable** (*strict=False*)

Check whether we should switch to insert mode for this element.

**Parameters** **strict** – Whether to do stricter checking so only fields where we can get the value match, for use with the :editor command.

**Returns** True if we should switch to insert mode, False otherwise.

**is\_text\_input()**

Check if this element is some kind of text box.

**remove\_blank\_target()**

Remove target from link.

**resolve\_url** (*baseurl*)

Resolve the URL in the element's src/href attribute.

**Parameters** **baseurl** – The URL to base relative URLs on as QUrl.

**Returns** A QUrl with the absolute URL, or None.

**is\_link()**

Return True if this AbstractWebElement is a link.

**click** (*click\_target*, \*, *force\_event=False*)

Simulate a click on the element.

**Parameters**

- **click\_target** – A usertypes.ClickTarget member, what kind of click to simulate.
- **force\_event** – Force generating a fake mouse event.

**hover()**

Simulate a mouse hover over the element.

**class** qutebrowser.browser.webelem.**Error**

Base class for WebElement errors.

**class** qutebrowser.browser.webelem.**OrphanedError**

Raised when a webelement's parent has vanished.

## INDICES AND TABLES

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



## PYTHON MODULE INDEX

### q

- `qutebrowser.api.apitypes`, 3
- `qutebrowser.api.cmdutils`, 1
- `qutebrowser.api.config`, 4
- `qutebrowser.api.downloads`, 4
- `qutebrowser.api.hook`, 5
- `qutebrowser.api.interceptor`, 5
- `qutebrowser.api.message`, 6



## Symbols

`_flags` (qutebrowser.browser.browsertab.AbstractSearch attribute), 9

`_widget` (qutebrowser.browser.browsertab.AbstractSearch attribute), 9

## A

`AbstractAction` (class in qutebrowser.browser.browsertab), 8

`AbstractAudio` (class in qutebrowser.browser.browsertab), 11

`AbstractCaret` (class in qutebrowser.browser.browsertab), 10

`AbstractElements` (class in qutebrowser.browser.browsertab), 10

`AbstractHistory` (class in qutebrowser.browser.browsertab), 10

`AbstractPrinting` (class in qutebrowser.browser.browsertab), 8

`AbstractScroller` (class in qutebrowser.browser.browsertab), 10

`AbstractSearch` (class in qutebrowser.browser.browsertab), 9

`AbstractTab` (class in qutebrowser.browser.browsertab), 7

`AbstractWebElement` (class in qutebrowser.browser.webelem), 13

`AbstractZoom` (class in qutebrowser.browser.browsertab), 9

`application` (qutebrowser.api.apitypes.JsWorld attribute), 3

`apply_offset()` (qutebrowser.browser.browsertab.AbstractZoom method), 9

`argument` (class in qutebrowser.api.cmdutils), 2

## B

`back()` (qutebrowser.browser.browsertab.AbstractHistory method), 10

`before_jump_requested` (qutebrowser.browser.browsertab.AbstractScroller attribute), 10

`before_load_started` (qutebrowser.browser.browsertab.AbstractTab

attribute), 7

`block()` (qutebrowser.api.interceptor.Request method), 6

## C

`caret` (qutebrowser.api.cmdutils.KeyMode attribute), 3

`check_exclusive()` (in module qutebrowser.api.cmdutils), 2

`check_overflow()` (in module qutebrowser.api.cmdutils), 1

`check_pdf_support()` (qutebrowser.browser.browsertab.AbstractPrinting method), 8

`check_preview_support()` (qutebrowser.browser.browsertab.AbstractPrinting method), 8

`check_printer_support()` (qutebrowser.browser.browsertab.AbstractPrinting method), 8

`classes()` (qutebrowser.browser.webelem.AbstractWebElement method), 13

`clear()` (qutebrowser.browser.browsertab.AbstractSearch method), 9

`cleared` (qutebrowser.browser.browsertab.AbstractSearch attribute), 9

`click()` (qutebrowser.browser.webelem.AbstractWebElement method), 14

`ClickTarget` (class in qutebrowser.api.apitypes), 3

`command` (qutebrowser.api.cmdutils.KeyMode attribute), 3

`CommandError`, 1

`config_changed` (class in qutebrowser.api.hook), 5

`contents_size_changed` (qutebrowser.browser.browsertab.AbstractTab attribute), 7

## D

`dispatch_event()` (qutebrowser.browser.webelem.AbstractWebElement method), 13

`download_temp()` (in module qutebrowser.api.downloads), 4

`dump_async()` (qutebrowser.browser.browsertab.AbstractTab method), 7

## E

Error (class in qutebrowser.browser.webelem), 14  
 error() (in module qutebrowser.api.message), 6  
 exit\_fullscreen() (qutebrowser.browser.browsertab.AbstractTab  
 method), 8

## F

fake\_key\_press() (qute-  
 browser.browser.browsertab.AbstractTab  
 method), 7  
 find\_at\_pos() (qutebrowser.browser.browsertab.AbstractElements  
 method), 10  
 find\_css() (qutebrowser.browser.browsertab.AbstractElements  
 method), 10  
 find\_focused() (qutebrowser.browser.browsertab.AbstractElements  
 method), 10  
 find\_id() (qutebrowser.browser.browsertab.AbstractElements  
 method), 10  
 finished (qutebrowser.browser.browsertab.AbstractSearch  
 attribute), 9  
 first\_party\_url (qutebrowser.api.interceptor.Request at-  
 tribute), 5  
 follow\_selected\_done (qute-  
 browser.browser.browsertab.AbstractCaret  
 attribute), 10  
 forward() (qutebrowser.browser.browsertab.AbstractHistory  
 method), 10  
 fullscreen\_requested (qute-  
 browser.browser.browsertab.AbstractTab  
 attribute), 7

## G

geometry() (qutebrowser.browser.webelem.AbstractWebElement  
 method), 13  
 get() (in module qutebrowser.api.config), 4

## H

has\_frame() (qutebrowser.browser.webelem.AbstractWebElement  
 method), 13  
 hint (qutebrowser.api.cmdutils.KeyMode attribute), 3  
 hover (qutebrowser.api.apitypes.ClickTarget attribute), 3  
 hover() (qutebrowser.browser.webelem.AbstractWebElement  
 method), 14

## I

icon\_changed (qutebrowser.browser.browsertab.AbstractTab  
 attribute), 7  
 info() (in module qutebrowser.api.message), 6  
 init (class in qutebrowser.api.hook), 5  
 InitContext (class in qutebrowser.api.apitypes), 3  
 insert (qutebrowser.api.cmdutils.KeyMode attribute), 3  
 insert\_text() (qutebrowser.browser.webelem.AbstractWebElement  
 method), 13

is\_content\_editable() (qute-  
 browser.browser.webelem.AbstractWebElement  
 method), 14  
 is\_editable() (qutebrowser.browser.webelem.AbstractWebElement  
 method), 14  
 is\_link() (qutebrowser.browser.webelem.AbstractWebElement  
 method), 14  
 is\_recently\_audible() (qute-  
 browser.browser.browsertab.AbstractAudio  
 method), 11  
 is\_text\_input() (qutebrowser.browser.webelem.AbstractWebElement  
 method), 14  
 is\_writable() (qutebrowser.browser.webelem.AbstractWebElement  
 method), 14

## J

jseval (qutebrowser.api.apitypes.JsWorld attribute), 3  
 JsWorld (class in qutebrowser.api.apitypes), 3

## K

KeyMode (class in qutebrowser.api.cmdutils), 2

## L

link\_hovered (qutebrowser.browser.browsertab.AbstractTab  
 attribute), 7  
 load\_finished (qutebrowser.browser.browsertab.AbstractTab  
 attribute), 7  
 load\_progress (qutebrowser.browser.browsertab.AbstractTab  
 attribute), 7  
 load\_started (qutebrowser.browser.browsertab.AbstractTab  
 attribute), 7

## M

main (qutebrowser.api.apitypes.JsWorld attribute), 3

## N

new\_tab\_requested (qute-  
 browser.browser.browsertab.AbstractTab  
 attribute), 7  
 next\_result() (qutebrowser.browser.browsertab.AbstractSearch  
 method), 9  
 normal (qutebrowser.api.apitypes.ClickTarget attribute),  
 3  
 normal (qutebrowser.api.cmdutils.KeyMode attribute), 2

## O

OrphanedError (class in qutebrowser.browser.webelem),  
 14  
 outer\_xml() (qutebrowser.browser.webelem.AbstractWebElement  
 method), 13

## P

passthrough (qutebrowser.api.cmdutils.KeyMode at-  
 tribute), 3



perc\_changed (qutebrowser.browser.browsertab.AbstractSearch attribute), 10

prev\_result() (qutebrowser.browser.browsertab.AbstractSearch method), 9

prompt (qutebrowser.api.cmdutils.KeyMode attribute), 3

## Q

qutebrowser.api.apitypes (module), 3

qutebrowser.api.cmdutils (module), 1

qutebrowser.api.config (module), 4

qutebrowser.api.downloads (module), 4

qutebrowser.api.hook (module), 5

qutebrowser.api.interceptor (module), 5

qutebrowser.api.message (module), 6

## R

rect\_on\_view() (qutebrowser.browser.webelem.AbstractWebElement method), 13

register (class in qutebrowser.api.cmdutils), 2

register() (in module qutebrowser.api.interceptor), 5

remove\_blank\_target() (qutebrowser.browser.webelem.AbstractWebElement method), 14

Request (class in qutebrowser.api.interceptor), 5

request\_url (qutebrowser.api.interceptor.Request attribute), 5

resolve\_url() (qutebrowser.browser.webelem.AbstractWebElement method), 14

run\_js\_async() (qutebrowser.browser.browsertab.AbstractTab method), 8

run\_string() (qutebrowser.browser.browsertab.AbstractAction method), 8

## S

save\_page() (qutebrowser.browser.browsertab.AbstractAction method), 8

search() (qutebrowser.browser.browsertab.AbstractSearch method), 9

search\_displayed (qutebrowser.browser.browsertab.AbstractSearch attribute), 9

selection\_toggled (qutebrowser.browser.browsertab.AbstractCaret attribute), 10

send\_event() (qutebrowser.browser.browsertab.AbstractTab method), 7

set\_factor() (qutebrowser.browser.browsertab.AbstractZoom method), 9

set\_muted() (qutebrowser.browser.browsertab.AbstractAudio method), 11

set\_value() (qutebrowser.browser.webelem.AbstractWebElement method), 13

show\_dialog() (qutebrowser.browser.browsertab.AbstractPrinting method), 8

show\_source() (qutebrowser.browser.browsertab.AbstractAction method), 8

## T

Tab (in module qutebrowser.api.apitypes), 4

tab (qutebrowser.api.apitypes.ClickTarget attribute), 3

tab (qutebrowser.browser.webelem.AbstractWebElement attribute), 13

tab\_bg (qutebrowser.api.apitypes.ClickTarget attribute), 3

tag\_name() (qutebrowser.browser.webelem.AbstractWebElement method), 13

TempDownload (class in qutebrowser.api.downloads), 4

text (qutebrowser.browser.browsertab.AbstractSearch attribute), 9

title\_changed (qutebrowser.browser.browsertab.AbstractTab attribute), 7

to\_printer() (qutebrowser.browser.browsertab.AbstractPrinting method), 8

to\_printer() (qutebrowser.browser.browsertab.AbstractPrinting method), 8

## U

url\_changed (qutebrowser.browser.browsertab.AbstractTab attribute), 7

user (qutebrowser.api.apitypes.JsWorld attribute), 3

## V

val (in module qutebrowser.api.config), 4

Value (in module qutebrowser.api.cmdutils), 3

value() (qutebrowser.browser.webelem.AbstractWebElement method), 13

## W

warning() (in module qutebrowser.api.message), 6

WebElement (in module qutebrowser.api.apitypes), 4

WebElemError (in module qutebrowser.api.apitypes), 4

WebTabError, 4

window (qutebrowser.api.apitypes.ClickTarget attribute), 3

window\_close\_requested (qutebrowser.browser.browsertab.AbstractTab attribute), 7

## Y

yesno (qutebrowser.api.cmdutils.KeyMode attribute), 3