



# **mwclient Documentation**

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Mwclient is a *MIT licensed* client library to the [MediaWiki API](#) that should work well with both Wikimedia wikis and other wikis running MediaWiki 1.16 or above. It supports Python 2.6 and above (tested with Python 2.6, 2.7, 3.3 and 3.4).



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# Installation

---

Installing Mwclient is simple with `pip`, just run this in your terminal:

```
pip install mwclient
```





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### Quickstart

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```
>>> site = mwclient.Site(('https', 'en.wikipedia.org'))
>>> page = site.pages[u'Leipäjuusto']
>>> page.text()
u'{{Unreferenced|date=September 2009}}\n[[Image:Leip\xe4juusto cheese with cloudberry jam.jpg|thumb|1
>>> [x for x in page.categories()]
[<Category object 'Category:Finnish cheeses' for <Site object '('https', 'en.wikipedia.org')/w/'>
<Category object 'Category:Articles lacking sources from September 2009' for <Site object '('ht
<Category object 'Category:Cow's-milk cheeses' for <Site object '('https', 'en.wikipedia.org')/v
<Category object 'Category:All articles lacking sources' for <Site object '('https', 'en.wikiped
```



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## User guide

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This guide is intended as an introductory overview, and explains how to make use of the most important features of mwclient.

### 3.1 User guide

This guide is intended as an introductory overview, and explains how to make use of the most important features of mwclient. For detailed reference documentation of the functions and classes contained in the package, see the *Reference guide*.

#### 3.1.1 Connecting to your site

Begin by importing the Site class:

```
>>> from mwclient import Site
```

Then try to connect to a site:

```
>>> site = mwclient.Site('test.wikipedia.org')
```

#### Using HTTPS

If the site supports HTTPS, you can create a secure connection by passing in a tuple like so:

```
>>> site = mwclient.Site(('https', 'test.wikipedia.org'))
```

Note that HTTPS is planned to be the default for the next major version of mwclient.

#### The API endpoint location

The site's API endpoint location depends on the configurable `$wgScriptPath`. Mwclient defaults to the script path `'/w/'` used by the Wikimedia wikis. If you get a 404 Not Found or a `mwclient.errors.InvalidResponse` error upon connecting, your site might use a different script path. You can specify it using the *path* argument:

```
>>> site = mwclient.Site(('https', 'myawesomewiki.org'), path='/wiki/', )
```

## Specifying a user agent

If you are connecting to a Wikimedia site, you should follow the [Wikimedia User-Agent policy](#) and identify your tool like so:

```
>>> ua = 'MyCoolTool. Run by User:XYZ. Using mwclient/0.8'
>>> site = mwclient.Site('test.wikipedia.org', clients_useragent=ua)
```

## Logging in

To login to the wiki:

```
>>> site.login(username, password)
```

If login fails, a `mwclient.errors.LoginError` will be thrown.

Note that mwclient by default will protect you from editing if you should forget to login. If you actually want to edit without logging in, just set

```
>>> site.force_login = False
```

and mwclient won't get in your way.

## HTTP authentication

If your server is configured to use HTTP authentication, you can authenticate using the `httpauth` parameter. For Basic HTTP authentication:

```
>>> site = mwclient.Site('awesome.site', httpauth=('user', 'pass'))
```

You can also pass in any other [authentication mechanism](#) based on the `requests.auth.AuthBase`, such as Digest authentication:

```
>>> from requests.auth import HTTPDigestAuth
>>> site = mwclient.Site('awesome.site', httpauth=HTTPDigestAuth('user', 'pass'))
```

### 3.1.2 Page operations

Start by *connecting* to your site:

```
>>> from mwclient import Site
>>> site = mwclient.Site(('https', 'en.wikipedia.org'))
```

and optionally *logging in*:

```
>>> site.login('username', 'password')
```

## Editing or creating a page

To get the wikitext for a specific page:

```
>>> page = site.pages['Greater guinea pig']
>>> text = page.text()
```

If a page doesn't exist, `Page.text()` just returns an empty string. If you need to test the existence of the page, use `page.exists`:

```
>>> page.exists
True
```

Edit the text as you like before saving it back to the page:

```
>>> page.save(text, 'Edit summary')
```

If the page didn't exist, it is created.

## Listing page revisions

`Page.revisions()` returns a List object that you can iterate over using a for loop. Continuation is handled under the hood so you don't have to worry about it.

*Example:* Let's find out which users did the most number of edits to a page:

```
>>> users = [rev['user'] for rev in page.revisions()]
>>> unique_users = set(users)
>>> user_revisions = [{'user': user, 'count': users.count(user)} for user in unique_users]
>>> sorted(user_revisions, key=lambda x: x['count'], reverse=True)[:5]
[{'count': 6, 'user': u'Wolf12345'},
 {'count': 4, 'user': u'Test-bot'},
 {'count': 4, 'user': u'Mirxaeth'},
 {'count': 3, 'user': u'192.251.192.201'},
 {'count': 3, 'user': u'78.50.51.180'}]
```

*Tip:* If you want to retrieve a specific number of revisions, the `itertools.islice` method can come in handy:

```
>>> from datetime import datetime
>>> from time import mktime
>>> from itertools import islice
>>> for revision in islice(page.revisions(), 5):
...     dt = datetime.fromtimestamp(mktime(revision['timestamp']))
...     print '{}'.format(dt.strftime('%F %T'))
```

## Other page operations

There are many other page operations like `backlinks()`, `embeddedin()`, etc. See the [API reference](#) for more.



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## Reference guide

---

If you are looking for information on a specific function, class or method, this part of the documentation is for you. It's autogenerated from the source code.

### 4.1 Reference guide

This is the mwclient API reference, autogenerated from the source code.

#### 4.1.1 Site

```
class mwclient.client.Site(host, path='/w/', ext='.php', pool=None, retry_timeout=30,
                           max_retries=25, wait_callback=<function <lambda>>,
                           clients_useragent=None, max_lag=3, compress=True, force_login=True,
                           do_init=True, httpauth=None)
```

A MediaWiki site identified by its hostname.

```
>>> import mwclient
>>> site = mwclient.Site('en.wikipedia.org')
```

Do not include the leading “http://”.

Mwclient assumes that the script path (where index.php and api.php are located) is ‘/w/’. If the site uses a different script path, you must specify this (path must end in a ‘/’). Examples:

```
>>> site = mwclient.Site('vim.wikia.com', path='/')
>>> site = mwclient.Site('sourceforge.net', path='/apps/mediawiki/mwclient/')
```

**allcategories** (*start=None, prefix=None, dir='ascending', limit=None, generator=True*)

Retrieve all categories on the wiki as a generator.

**allimages** (*start=None, prefix=None, minsize=None, maxsize=None, limit=None, dir='ascending', sha1=None, sha1base36=None, prop='timestampurl', generator=True*)

Retrieve all images on the wiki as a generator.

**alllinks** (*start=None, prefix=None, unique=False, prop='title', namespace='0', limit=None, generator=True*)

Retrieve a list of all links on the wiki as a generator.

**allpages** (*start=None, prefix=None, namespace='0', filterredir='all', minsize=None, maxsize=None, prtype=None, prlevel=None, limit=None, dir='ascending', filterlanglinks='all', generator=True*)

Retrieve all pages on the wiki as a generator.

**allusers** (*start=None, prefix=None, group=None, prop=None, limit=None, witheditonly=False, activeusers=False, rights=None*)  
Retrieve all users on the wiki as a generator.

**api** (*action, \*args, \*\*kwargs*)  
Perform a generic API call and handle errors. All arguments will be passed on.

### Example

To get coordinates from the GeoData MediaWiki extension at English Wikipedia:

```
>>> site = Site('en.wikipedia.org')
>>> result = site.api('query', prop='coordinates', titles='Oslo|Copenhagen')
>>> for page in result['query']['pages'].values():
...     if 'coordinates' in page:
...         print '{} {} {}'.format(page['title'],
...                                   page['coordinates'][0]['lat'],
...                                   page['coordinates'][0]['lon'])
Oslo 59.95 10.75
Copenhagen 55.6761 12.5683
```

**Returns** The raw response from the API call, as a dictionary.

**ask** (*query, title=None*)  
Ask a query against Semantic MediaWiki.

API doc: [https://semantic-mediawiki.org/wiki/Ask\\_API](https://semantic-mediawiki.org/wiki/Ask_API)

**blocks** (*start=None, end=None, dir='older', ids=None, users=None, limit=None, prop='id|user|by|timestamp|expiry|reason|flags'*)  
Retrieve blocks as a generator.

Each block is a dictionary containing: - user: the username or IP address of the user - id: the ID of the block - timestamp: when the block was added - expiry: when the block runs out (infinity for indefinite blocks) - reason: the reason they are blocked - allowusertalk: key is present (empty string) if the user is allowed to edit their user talk page - by: the administrator who blocked the user - nocreate: key is present (empty string) if the user's ability to create accounts has been disabled.

**checkuserlog** (*user=None, target=None, limit=10, dir='older', start=None, end=None*)  
Retrieve checkuserlog items as a generator.

**email** (*user, text, subject, cc=False*)  
Send email to a specified user on the wiki.

```
>>> try:
...     site.email('SomeUser', 'Some message', 'Some subject')
... except mwclient.errors.NoSpecifiedEmailError as e:
...     print 'The user does not accept email, or has not specified an email address.'
```

### Parameters

- **user** (*str*) – User name of the recipient
- **text** (*str*) – Body of the email
- **subject** (*str*) – Subject of the email
- **cc** (*bool*) – True to send a copy of the email to yourself (default is False)

**Returns** Dictionary of the JSON response



**Raises**

- *NoSpecifiedEmailError* (*mwclient.errors.NoSpecifiedEmailError*) – if recipient does not accept email
- *EmailError* (*mwclient.errors.EmailError*) – on other errors

**expandtemplates** (*text, title=None, generatexml=False*)

Takes wikitext (*text*) and expands templates.

API doc: <https://www.mediawiki.org/wiki/API:Expandtemplates>

**exturlusage** (*query, prop=None, protocol='http', namespace=None, limit=None*)

Retrieves list of pages that link to a particular domain or URL as a generator.

This API call mirrors the Special:LinkSearch function on-wiki.

Query can be a domain like 'bbc.co.uk'. Wildcards can be used, e.g. '\*.bbc.co.uk'. Alternatively, a query can contain a full domain name and some or all of a URL: e.g. '\*.wikipedia.org/wiki/\*'

See <<https://meta.wikimedia.org/wiki/Help:Linksearch>> for details.

The generator returns dictionaries containing three keys: - url: the URL linked to. - ns: namespace of the wiki page - pageid: the ID of the wiki page - title: the page title.

**logevents** (*type=None, prop=None, start=None, end=None, dir='older', user=None, title=None, limit=None, action=None*)

Retrieve logevents as a generator.

**login** (*username=None, password=None, cookies=None, domain=None*)

Login to the wiki.

**random** (*namespace, limit=20*)

Retrieves a generator of random page from a particular namespace.

limit specifies the number of random articles retrieved. namespace is a namespace identifier integer.

Generator contains dictionary with namespace, page ID and title.

**raw\_api** (*action, \*args, \*\*kwargs*)

Sends a call to the API.

**raw\_call** (*script, data, files=None, retry\_on\_error=True*)

Perform a generic request and return the raw text.

In the event of a network problem, or a HTTP response with status code 5XX, we'll wait and retry the configured number of times before giving up if *retry\_on\_error* is True.

*requests.exceptions.HTTPError* is still raised directly for HTTP responses with status codes in the 4XX range, and invalid HTTP responses.

**Parameters**

- **script** (*str*) – Script name, usually 'api'.
- **data** (*dict*) – Post data
- **files** (*dict*) – Files to upload
- **retry\_on\_error** (*bool*) – Retry on connection error

**Returns** The raw text response.

**raw\_index** (*action, \*args, \*\*kwargs*)

Sends a call to index.php rather than the API.

**recentchanges** (*start=None, end=None, dir='older', namespace=None, prop=None, show=None, limit=None, type=None, toponly=None*)

List recent changes to the wiki, à la Special:Recentchanges.

**revisions** (*revids, prop='ids|timestamp|flags|comment|user', expandtemplates=False, diffto='prev'*)

Get data about a list of revisions. See also the *Page.revisions()* method. API doc: <https://www.mediawiki.org/wiki/API:Revisions>

Example: Get revision text for two revisions:

```
>>> for revision in site.revisions([689697696, 689816909], prop='content'):
...     print revision['*']
```

#### Parameters

- **revids** (*list*) – A list of (max 50) revisions.
- **prop** (*str*) – Which properties to get for each revision.
- **expandtemplates** (*bool*) – Expand templates in *rvprop=content* output.
- **diffto** (*str*) – Revision ID to diff each revision to. Use “prev”, “next” and “cur” for the previous, next and current revision respectively.

**Returns** A list of revisions

**search** (*search, namespace='0', what=None, redirects=False, limit=None*)

Perform a full text search. API doc: <https://www.mediawiki.org/wiki/API:Search>

```
>>> for result in site.search('prefix:Template:Citation/'):
...     print(result.get('title'))
```

#### Parameters

- **search** (*str*) – The query string
- **namespace** (*int*) – The namespace to search (default: 0)
- **what** (*str*) – Search scope: ‘text’ for fulltext, or ‘title’ for titles only. Depending on the search backend, both options may not be available. For instance *CirrusSearch* doesn’t support ‘title’, but instead provides an “intitle:” query string filter.
- **redirects** (*bool*) – Include redirect pages in the search (option removed in MediaWiki 1.23).

**Returns** Search results iterator

**Return type** mwclient.listings.List

**upload** (*file=None, filename=None, description='', ignore=False, file\_size=None, url=None, filekey=None, comment=None*)

Uploads a file to the site. Returns JSON result from the API. Can raise *errors.InsufficientPermission* and *requests.exceptions.HTTPError*.

#### : Parameters :

- **file** : File object or stream to upload.
- **filename** [Destination filename, don’t include namespace] prefix like ‘File:’
- **description** : Wikitext for the file description page.
- **ignore** : True to upload despite any warnings.

- `file_size` : Deprecated in mwclient 0.7
- `url` : URL to fetch the file from.
- **filekey** [Key that identifies a previous upload that was] stashed temporarily.
- **comment** [Upload comment. Also used as the initial page text] for new files if *description* is not specified.

Note that one of *file*, *filekey* and *url* must be specified, but not more than one. For normal uploads, you specify *file*.

Example:

```
>>> client.upload(open('somefile', 'rb'), filename='somefile.jpg',
                  description='Some description')
```

**usercontributions** (*user*, *start=None*, *end=None*, *dir='older'*, *namespace=None*, *prop=None*, *show=None*, *limit=None*)

List the contributions made by a given user to the wiki, à la Special:Contributions.

API doc: <https://www.mediawiki.org/wiki/API:Usercontribs>

**users** (*users*, *prop='blockinfo|groups|editcount'*)

Get information about a list of users.

API doc: <https://www.mediawiki.org/wiki/API:Users>

**watchlist** (*allrev=False*, *start=None*, *end=None*, *namespace=None*, *dir='older'*, *prop=None*, *show=None*, *limit=None*)

List the pages on the current user's watchlist.

API doc: <https://www.mediawiki.org/wiki/API:Watchlist>

## 4.1.2 Page

**class** mwclient.page.**Page** (*site*, *name*, *info=None*, *extra\_properties=None*)

**backlinks** (*namespace=None*, *filterredirect='all'*, *redirect=False*, *limit=None*, *generator=True*)

List pages that link to the current page, similar to Special:Whatlinkshere.

API doc: <https://www.mediawiki.org/wiki/API:Backlinks>

**can** (*action*)

Check if the current user has the right to carry out some action with the current page.

```
>>> page.can('edit')
True
```

**categories** (*generator=True*)

List categories used on the current page.

API doc: <https://www.mediawiki.org/wiki/API:Categories>

**delete** (*reason=''*, *watch=False*, *unwatch=False*, *oldimage=False*)

Delete page.

If user does not have permission to delete page, an `InsufficientPermission` exception is raised.

**edit** (*\*args*, *\*\*kwargs*)

Deprecated. Use `page.text()` instead

**embeddedin** (*namespace=None, filterredir='all', limit=None, generator=True*)

List pages that transclude the current page.

API doc: <https://www.mediawiki.org/wiki/API:Embeddedin>

#### Parameters

- **namespace** (*int*) – Restricts search to a given namespace (Default: None)
- **filterredir** (*str*) – How to filter redirects, either 'all' (default), 'redirects' or 'nonredirects'.
- **limit** (*int*) – Maximum amount of pages to return per request
- **generator** (*bool*) – Use generator

**Returns** Page iterator

**Return type** mwclient.listings.List

**extlinks** ()

List external links from the current page.

API doc: <https://www.mediawiki.org/wiki/API:Extlinks>

**get\_expanded** ()

Deprecated. Use `page.text(expandtemplates=True)` instead

**images** (*generator=True*)

List files/images embedded in the current page.

API doc: <https://www.mediawiki.org/wiki/API:Images>

**iwlinks** ()

List interwiki links from the current page.

API doc: <https://www.mediawiki.org/wiki/API:Iwlinks>

**langlinks** (*\*\*kwargs*)

List interlanguage links from the current page.

API doc: <https://www.mediawiki.org/wiki/API:Langlinks>

**links** (*namespace=None, generator=True, redirects=False*)

List links to other pages from the current page.

API doc: <https://www.mediawiki.org/wiki/API:Links>

**move** (*new\_title, reason='', move\_talk=True, no\_redirect=False*)

Move (rename) page to new\_title.

If user account is an administrator, specify `no_redirect` as `True` to not leave a redirect.

If user does not have permission to move page, an `InsufficientPermission` exception is raised.

**purge** ()

Purge server-side cache of page. This will re-render templates and other dynamic content.

**redirects\_to** ()

Returns the redirect target page, or `None` if the page is not a redirect page.

**resolve\_redirect** ()

Returns the redirect target page, or the current page if it's not a redirect page.

**revisions** (*startid=None, endid=None, start=None, end=None, dir='older', user=None, excludeuser=None, limit=50, prop='ids|timestamp|flags|comment|user', expandtemplates=False, section=None, diffto=None*)

List revisions of the current page.

API doc: <https://www.mediawiki.org/wiki/API:Revisions>

#### Parameters

- **startid** (*int*) – Revision ID to start listing from.
- **endid** (*int*) – Revision ID to stop listing at.
- **start** (*str*) – Timestamp to start listing from.
- **end** (*str*) – Timestamp to end listing at.
- **dir** (*str*) – Direction to list in: ‘older’ (default) or ‘newer’.
- **user** (*str*) – Only list revisions made by this user.
- **excludeuser** (*str*) – Exclude revisions made by this user.
- **limit** (*int*) – The maximum number of revisions to return per request.
- **prop** (*str*) – Which properties to get for each revision, default: ‘ids|timestamp|flags|comment|user’
- **expandtemplates** (*bool*) – Expand templates in rvprop=content output
- **section** (*int*) – If rvprop=content is set, only retrieve the contents of this section.
- **diffto** (*str*) – Revision ID to diff each revision to. Use “prev”, “next” and “cur” for the previous, next and current revision respectively.

**Returns** Revision iterator

**Return type** mwclient.listings.List

**save** (*text, summary=u'', minor=False, bot=True, section=None, \*\*kwargs*)

Update the text of a section or the whole page by performing an edit operation.

**templates** (*namespace=None, generator=True*)

List templates used on the current page.

API doc: <https://www.mediawiki.org/wiki/API:Templates>

**text** (*section=None, expandtemplates=False, cache=True*)

Get the current wikitext of the page, or of a specific section. If the page does not exist, an empty string is returned. By default, results will be cached and if you call text() again with the same section and expandtemplates the result will come from the cache. The cache is stored on the instance, so it lives as long as the instance does.

#### Parameters

- **section** (*int*) – numbered section or *None* to get the whole page (default: *None*)
- **expandtemplates** (*bool*) – set to *True* to expand templates (default: *False*)
- **cache** (*bool*) – set to *False* to disable caching (default: *True*)

### 4.1.3 Image

**class** mwclient.image.**Image** (*site, name, info=None*)

**download** (*destination=None*)

Download the file. If *destination* is given, the file will be written directly to the stream. Otherwise the file content will be stored in memory and returned (with the risk of running out of memory for large files).

Recommended usage:

```
>>> with open(filename, 'wb') as fd:
...     image.download(fd)
```

**Parameters** *destination* (*file object*) – Destination file

**duplicatefiles** (*limit=None*)

List duplicates of the current file.

API doc: <https://www.mediawiki.org/wiki/API:Duplicatefiles>

**imagehistory** ()

Get file revision info for the given file.

API doc: <https://www.mediawiki.org/wiki/API:Imageinfo>

**imageusage** (*namespace=None, filterredirect='all', redirect=False, limit=None, generator=True*)

List pages that use the given file.

API doc: <https://www.mediawiki.org/wiki/API:Imageusage>

#### 4.1.4 InsufficientPermission

`class mwclient.errors.InsufficientPermission`

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## Development

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Looking for information on contributing to mwclient development?

### 5.1 Development

Mwclient development is coordinated at <https://github.com/mwclient/mwclient>. Patches are very welcome. There's currently no chat room or mailing list for the project, but don't hesitate to use the issue tracker at GitHub for general discussions.

#### 5.1.1 Development environment

If you plan to submit a pull request, you should first [fork](#) the mwclient repo on GitHub, then clone your own fork:

```
$ git clone git@github.com:MYUSERNAME/mwclient.git
$ cd mwclient
```

You can then use pip to do an “editable” install so that your edits will be immediately available for (both interactive and automated) testing:

```
$ pip install -e .
```

#### 5.1.2 Running tests

To run the automated tests, install the test dependencies and run [pytest](#):

```
$ pip install pytest pytest-pep8 responses
$ py.test
```

To run tests with different Python versions in isolated virtualenvs, you can use [Tox](#):

```
$ pip install tox
$ tox
```

Note that the test suite is quite limited yet. If you'd like to expand it by adding more tests, please go ahead!

### 5.1.3 Making a pull request

Make sure to run tests before committing. When it comes to the commit message, there's no specific requirements for the format, but try to explain your changes in a clear and concise manner.

If it's been some time since you forked, please consider rebasing your branch on the main master branch to ease merging:

```
$ git remote add upstream https://github.com/mwclient/mwclient.git
$ git rebase upstream master
```

Then push your code and open a pull request on GitHub.



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