
MediaWikiAPI Documentation

Release 1.0.0

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Release v1.1.3.

CHAPTER 1

Installation

Start using wikipedia for Python in less than 5 minutes! MediaWikiAPI is compatible with Python 3 and Python 2.7. If you are looking for the the full developer API, see [MediaWikiAPI Documentation](#).

Begin by installing wikipedia:

```
$ pip install wikipedia
```

As alternative you can use the source code from [Github](#).

CHAPTER 2

Quickstart

Now let's use the MediaWikiAPI. First you need to import the package and create MediaWikiAPI class. In order to use search and suggestion call the corresponding methods search and suggest:

```
>>> from mediawikiapi import MediaWikiAPI
>>> mediawikiapi = MediaWikiAPI()
>>> mediawikiapi.search("Barack")
[u'Barak (given name)', u'Barack Obama', u'Barack (brandy)', u'Presidency of_
↳Barack Obama', u'Family of Barack Obama', u'First inauguration of Barack Obama', u
↳'Barack Obama presidential campaign, 2008', u'Barack Obama, Sr.', u'Barack Obama_
↳citizenship conspiracy theories', u'Presidential transition of Barack Obama']

>>> mediawikiapi.suggest("Barak Obama") # returns the suggested Wikipedia title for a_
↳query or None
u'Barack Obama'
```

We can also get fewer or more results by using the results kwarg:

```
>>> mediawikiapi.search("Ford", results=3)
[u'Ford Motor Company', u'Gerald Ford', u'Henry Ford']
```

To get the summary of an article, use mediawikiapi.summary:

```
>>> mediawikiapi.summary("GitHub")
2011, GitHub was the most popular open source code repository site.\nGitHub Inc. was_
↳founded in 2008 and is based in San Francisco, California.\nIn July 2012, the_
↳company received $100 million in Series A funding, primarily from Andreessen_
↳Horowitz.'
```

```
>>> mediawikiapi.summary("Apple III", sentences=1)
u'The Apple III (often rendered as Apple ///) is a business-oriented personal_
↳computer produced and released by Apple Computer that was intended as the successor_
↳to the Apple II series, but largely considered a failure in the market. '
```

mediawikiapi.page enables you to load and access data from full Wikipedia pages. Initialize with a page title (keep in mind the errors listed above), and then access most properties using property methods:

```
>>> ny = mediawikiapi.page("New York (state)")

>>> ny.title
u'New York (state) '

>>> ny.url
u'http://en.wikipedia.org/wiki/New_York_(state) '

>>> ny.content
u'New York is a state in the northeastern United States. New York was one of the_
↳original thir'...

>>> ny.images[0]
u'http://upload.wikimedia.org/wikipedia/commons/9/91/New_York_quarter%2C_reverse_side
↳%2C_2001.jpg'

>>> ny.links[0]
u'1790 United States Census'
```

To change the language of the Wikipedia you are accessing, use `mediawikiapi.conf.language`. Remember to search for page titles in the language that you have set, not English!:

```
>>> mediawikiapi.config.language = "fr"

>>> print mediawikiapi.summary("Francois Hollande")
François Hollande, né le 12 août 1954 à Rouen, en Seine-Maritime, est un homme d'État_
↳français. Il est président de la République française depuis le 15 mai 2012...
```

To get a list of all possible language prefixes, try `mediawikiapi.languages()`.

For more details and configuration option check API section.

3.1 Changelog

Here you can find the full developer API for the MediaWikiAPI project.

Contents:

3.1.1 Version 1.1.3

- Add [category member](#) query support by [PR #24](#)
- Add backlinks to WikipediaPage [PR #22](#)
- Fix missing self reference [PR #11](#) by @danielunderwood
- Fix dependencies installable from setup.py [PR #12](#) by @danielunderwood
- Fix the hangs of the continuing queries [PR #21](#)

3.1.2 Version 1.1

- **Breaking change** - add MediaWikiAPI class, now you can have more than one api access point with different configurations (Config instances). MediaWikiAPI class contains all the mediawikiapi function from version 1.0. The Config class cloud be pass as parameter during initialization.
- Support python 2
- Rename Configuration class to Config, add language field
- Config().get_api_url now accept language parameter
- Add timeout for requests, field in Config class called timeout (in seconds).
- Makes the pagepropsof a wikipedia page accessible [PR #147](#) from @goldsmith repo.
- Fix suggestion, issue [#108](#) by [PR #131](#) from @goldsmith repo.

- Fix problem with hidden files in the article [PR #132](#) @goldsmith repo.
- DisambiguationError contains now information about title and url [PR #92](#) from @goldsmith repo.
- Fix issue where pageid request => redirect raises error [PR #165](#)

3.1.3 Version 1.0

- Fork [Wikipedia](#)
- Add language validation for mediawikiapi.set_lang
- Add lang title method to WikipediaPage
- Add re-usage the same requests session
- Fix installing error with version
- Fix WikipediaPage.sections
- Fix mock data
- Refactoring: seperate Language and Configuration classes

3.1.4 Indices and tables

- [genindex](#)
- [modindex](#)
- [search](#)

4.1 MediaWikiAPI Documentation

Here you can find the full developer API for the MediaWikiAPI project.

Contents:

4.1.1 Classes

```
class mediawikiapi.MediaWikiAPI (config=None)
```

```
    __init__ (config=None)
```

Initialize self. See help(type(self)) for accurate signature.

```
    category_members (title=None, pageid=None, cmlimit=10, cmtype='page')
```

Get list of page titles belonging to a category. Keyword arguments:

- **title** - category title. Cannot be used together with “pageid”
- **pageid** - page id of category page. Cannot be used together with “title”
- **cmlimit** - the maximum number of titles to return
- **cmtype** - which type of page to include. (“page”, “subcat”, or “file”)

```
    donate ()
```

Open up the Wikimedia donate page in your favorite browser.

```
    geosearch (latitude, longitude, title=None, results=10, radius=1000)
```

Do a wikipedia geo search for *latitude* and *longitude* using HTTP API described in <http://www.mediawiki.org/wiki/Extension:GeoData>

Arguments:

- **latitude** (float or decimal.Decimal)

- longitude (float or decimal.Decimal)

Keyword arguments:

- title - The title of an article to search for
- results - the maximum number of results returned
- radius - Search radius in meters. The value must be between 10 and 10000

languages ()

List all the currently supported language prefixes (usually ISO language code).

Can be inputted to WikipediaPage.conf to change the Mediawiki that *wikipedia* requests results from.

Returns: dict of <prefix>: <local_lang_name> pairs. To get just a list of prefixes, use *wikipedia.languages().keys()*.

page (title=None, pageid=None, auto_suggest=True, redirect=True, preload=False)

Get a WikipediaPage object for the page with title *title* or the pageid *pageid* (mutually exclusive).

Keyword arguments:

- title - the title of the page to load
- pageid - the numeric pageid of the page to load
- auto_suggest - let Wikipedia find a valid page title for the query
- redirect - allow redirection without raising RedirectError
- preload - load content, summary, images, references, and links during initialization

Attention!

The usage of auto_suggest may provide you with different page than you searched.

For example:

page("The Squires (disambiguation)", auto_suggest=True) returns page with title *Squires (disambiguation)*

page("The Squires (disambiguation)", auto_suggest=False) returns page with title *The Squires (disambiguation)*

random (pages=1)

Get a list of random Wikipedia article titles.

Note: Random only gets articles from namespace 0, meaning no Category, User talk, or other meta-Wikipedia pages.

Keyword arguments:

- pages - the number of random pages returned (max of 10)

search (query, results=10, suggestion=False)

Do a Wikipedia search for *query*.

Keyword arguments:

- results - the maximum number of results returned
- suggestion - if True, return results and suggestion (if any) in a tuple

suggest (query)

Get a Wikipedia search suggestion for *query*. Returns a string or None if no suggestion was found.

summary (*title, sentences=0, chars=0, auto_suggest=True, redirect=True*)

Plain text summary of the page. .. note:: This is a convenience wrapper - auto_suggest and redirect are enabled by default Keyword arguments: * sentences - if set, return the first *sentences* sentences (can be no greater than 10). * chars - if set, return only the first *chars* characters (actual text returned may be slightly longer). * auto_suggest - let Wikipedia find a valid page title for the query * redirect - allow redirection without raising RedirectError

class mediawikiapi.**WikipediaPage** (*title=None, pageid=None, redirect=True, preload=False, original_title="", request=None*)

Contains data from a Wikipedia page. Uses property methods to filter data from the raw HTML.

__init__ (*title=None, pageid=None, redirect=True, preload=False, original_title="", request=None*)

Initialize self. See help(type(self)) for accurate signature.

backlinks

List of pages that link to a given page

backlinks_ids

List of pages ids that link to a given page

Note: It is not garanted that backlinks_ids list contains all backlinks. Sometimes the pageid is missing and only title is available, as a result len(backlinks_ids) <= len(backlinks).

categories

List of categories of a page.

content

Plain text content of the page, excluding images, tables, and other data.

coordinates

Tuple of Decimals in the form of (lat, lon) or None

html ()

Get full page HTML.

Warning: This can get pretty slow on long pages.

images

List of URLs of images on the page.

lang_title (*lang_code*)

Get the title in specified language code Returns None if lang code or title isn't found, otherwise returns a string with title. Raise LanguageException if language doesn't exists

links

List of titles of Wikipedia page links on a page.

Note: Only includes articles from namespace 0, meaning no Category, User talk, or other meta-Wikipedia pages.

parent_id

Revision ID of the parent version of the current revision of this page. See *revision_id* for more information.

references

List of URLs of external links on a page. May include external links within page that aren't technically cited anywhere.

revision_id

Revision ID of the page.

The revision ID is a number that uniquely identifies the current version of the page. It can be used to create the permalink or for other direct API calls. See [Help:Page history](#) for more information.

section (*section_title*)

Get the plain text content of a section from *self.sections*. Returns None if *section_title* isn't found, otherwise returns a whitespace stripped string.

This is a convenience method that wraps *self.content*.

Warning: Calling *section* on a section that has subheadings will NOT return the full text of all of the subsections. It only gets the text between *section_title* and the next subheading, which is often empty.

sections

List of section titles from the table of contents on the page.

summary

Plain text summary of the page.

class mediawikiapi.**Language** (*language=None*)

Language used in mediawiki, if language is not defined English will be used

__init__ (*language=None*)

Initialize self. See *help(type(self))* for accurate signature.

language

Return language

class mediawikiapi.**RequestSession**

Request wrapper class for request

__init__ ()

Require configuration instance as argument

request (*params, config, language=None*)

Make a request to the Wikipedia API using the given search parameters, language and configuration

Arguments:

- *params* (dictionary)
- *config* - the configuration to be used for request

Keyword arguments:

- *language* - the wiki language

class mediawikiapi.**Config** (*language=None, user_agent=None, rate_limit=None*)

Contains global configuration

__init__ (*language=None, user_agent=None, rate_limit=None*)

Initialize self. See *help(type(self))* for accurate signature.

classmethod **donate_url** ()

Return media wiki donate url

get_api_url (*language=None*)

Return api for specified language Arguments: * language - (string or Language instance) specifying the language

language

Return current global language

4.1.2 Exceptions

Global wikipedia exception and warning classes.

exception mediawikiapi.exceptions.**HTTPTimeoutError** (*query*)

Exception raised when a request to the Mediawiki servers times out.

exception mediawikiapi.exceptions.**LanguageError** (*language*)

Exception raised when a language prefix is set which is not available

exception mediawikiapi.exceptions.**MediaWikiAPIException** (*error*)

Base Wikipedia exception class.

exception mediawikiapi.exceptions.**PageError** (*pageid=None, *args*)

Exception raised when no Wikipedia matched a query.

exception mediawikiapi.exceptions.**RedirectError** (*title*)

Exception raised when a page title unexpectedly resolves to a redirect.

4.1.3 Indices and tables

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- [modindex](#)
- [search](#)

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