
Simple Manga Downloader Documentation

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CHAPTER 1

Introduction

SMD (Simple Manga Downloader) is a tool to search and download manga from web sites, with support for several sites and manga translated to several languages.

These are some of the features of SMD:

- You can download and keep updated your favorite mangas for offline reading in your favorite manga reader application, without all that ads that are common in manga web sites.
- SMD only download the necessary files, so it saves bandwidth and it is faster than reading manga online.
- SMD never forgets a download, so you can cancel your download at any time and the next time you run the program, you can continue the canceled download from the same point it was.
- Also downloaded ongoing mangas can be updated to get the new released chapters.
- Besides having mangas in multiple languages, SMD itself has a multilingual interface.
- It is configurable.
- SMD is **free software**, and it always will be. For more information see [License](#).

To get started with SMD read the [Tutorial](#).

This tutorial will give you some advice on how to install and use the SMD application.

2.1 Requirements

To use SMD you need to have **Python 3** installed in your machine. To know if you have python installed run the following command in your terminal:

```
$ python3 --version
```

If you don't see a message like "Python 3.X.X" you have to install **Python 3**, for help installing it, read this [python installation guide](#).

2.2 Installation

The more easy way to install SMD is using `pip`, open your terminal and execute the following command:

```
$ pip3 install smd
```

or

```
$ python3 -m pip install smd
```

To install SMD from source extract the file `smd-X.X.X.tar.gz` (where X represents the version numbers), then open your terminal inside the extracted folder and execute the following command:

```
$ python3 setup.py install
```

Once installed, the command `smd` should be available in your terminal. To test if the application was installed correctly, run the following command:

```
$ smd --help
```

or

```
$ python3 -m smd --help
```

You should see the SMD help.

Note: If you have troubles with the installation read this [tutorial about installing packages in python](#).

2.3 Upgrading

To check for new versions of SMD and upgrade it use the following command:

```
$ pip3 install --upgrade smd
```

or

```
$ python3 -m pip install --upgrade smd
```

2.4 Quick start

This section have some examples to showcase the most common uses of SMD.

To select site and manga interactively just run:

```
$ smd
```

To select site interactively and search (and download) ‘One Piece’:

```
$ smd 'One Piece'
```

To search mangaall.net for mangas containing the word ‘love’ in its name, and select which one to download interactively:

```
$ smd -s mangaall love
```

To select a site with *English* language, and search/download ‘Bleach’:

```
$ smd --lang en Bleach
```

To download from chapter 10th to 20th (ignoring chapter 15th) of ‘Naruto’:

```
$ smd --chapters '10:20,!15' Naruto
```

Warning: Chapters are enumerated based on they order in the chapter list, so this number may not match the chapter title (e.g. if there are a chapter titled “Episode 15.5” and actually it is the chapter 16 in the list, you should use “smd --chapter 16” to download it)

To download from first chapter to 10th and the last chapter of 'Death Note':

```
$ smd --chapters :10,-1 'Death Note'
```

To select from a list of previously canceled downloads and continue with them:

```
$ smd --continue
```

To continue with the given previously canceled downloads:

```
$ smd --continue /path/to/the/canceled/download
```

To select from a list of previously downloaded ongoing mangas and update them:

```
$ smd --update
```

To list all supported sites that you can use with the option `-s`:

```
$ smd -l
```

To list supported *Spanish* sites:

```
$ smd --lang es -l
```

To see all available options use:

```
$ smd -h
```

2.5 SMD data folder

SMD creates a folder called `smd` in your user home folder (on GNU/Linux it is `/home/<your user name>` on Windows it is `C:\Users\<your user name>`). Inside this folder is located some useful files like the SMD is configuration file and the log files that keep track of errors.

2.5.1 Configuration File

The configuration file is named `smd.cfg`. At the time the only configurable options are:

- `language`: this set the language of the application, can be set to `en` (English), `es` (Spanish) or `SYSTEM` (to use the language of the system, this is the default).
- `manga_dir`: use this option to set the path to the folder where the program should download and look for manga folders, by default is set to `'.'` (dot) which means that the current working directory will be used.

2.5.2 Log files

The log of the more recent execution will be saved on `smd.log`, when the size of this file grows the older logs are moved to `smd.log.1`.

Simple Manga Downloader Changelog

3.1 Version 1.6.2

Released on August 15, 2018

- **Fix:** Fixed bug in `smd.__init__.py` file: `show_copyright()` isn't in package `smd.utils` anymore.
- **New:** Code re-factorized with annotations, for static typing checking with `mypy`.
- **New:** `smd.downloader.Downloader.get()` separated in two new functions `get_bytes()` and `get_str()`.
- **New:** Classes `Chapter` and `Manga` now use attributes instead of `__setitem__` and `__getitem__` for accessing meta data.
- **New:** Created `smd.utils.MetaFolder` class base for `Chapter` and `Manga`.
- **New:** Removed variable `smd.utlis.USER_AGENT` and created function `smd.utils.random_ua()` instead.
- **New:** Chapters folders are now named using numbers to avoid invalid folder names.
- **New:** `search()` now returns a list of `Manga` and `get_chapters()` returns a list of `Chapter`
- **Fix:** Fixed localization setup to fallback to the default if the language set in the configuration file is not supported.

3.2 Version 1.6.1

Released on July 31, 2018

- **Fix:** Fixed function `smd.utils.select_chapters()` to return a list of chapters in the right order instead of an unordered set.

3.3 Version 1.6.0

Released on July 31, 2018

- **New:** Now `smd` is *smarter*, it keeps meta-data about the mangas and remember download status, downloading only missing or incomplete chapters, also useful to download new chapters from ongoing mangas.
- **New:** Added option `--update` (to get new chapters for ongoing mangas).
- **New:** Added option `--continue` (to resume a canceled manga download).
- **New:** Now `smd` have a multilingual interface, currently only *English* and *Spanish* languages are supported.
- **New:** Added configuration file to configure language, folder where to find and save mangas, etc.
- **New:** Added documentation to the project and integrated it with [Read the Docs](#).
- **New:** Updated `tests` module.

3.4 Version 1.5.0

Released on July 18, 2018

- **New:** Added new option `-d` or `--directory` to set the place where to save mangas (default: working directory).
- **Fix:** If the manga title or chapter title are an invalid folder name, ask the user for a new name instead of crashing.
- **New:** Removed `--start` and `--stop` options in favor of a more powerful `--chapters` option. Now use `--chapters 10:20` instead of `--start 10 --stop 20`.
- **New:** Log file now moved to `[USER HOME]/smd/smd.log` and log size limited.
- **New:** Now exception traces are sent only to log file and small messages to console.
- **New:** Added `--verbose` option to make the program print debug messages and error stack traces.
- **Fix:** On `ConnectionResetError` retry only a fixed number of times.
- **New:** Added new package to the project: `tests` for unit testing.

3.5 Previous versions

Changes to previous versions were not tracked.

CHAPTER 4

The smd API reference

SMD is a tool to search and download manga from online manga reading web sites.

`smd.create_config_folder()` → None

Creates the application is configuration folder, if it doesn't exists.

`smd.download(downloaders: List[smd.downloader.Downloader], manga: str, chapter_selectors: str, tryall: bool)` → bool

Downloads the given manga using one of the given downloaders.

Parameters

- **downloaders** – the list of downloaders.
- **manga** – the manga name.
- **chapter_selectors** – the comma-separated list of chapters to download.
- **tryall** – when `True` if a downloader fail, then tries other downloaders.

Returns `True` if the download succeeded, `False` otherwise.

`smd.filter_downloaders(lang: str, downloaders: List[smd.downloader.Downloader])` → List[smd.downloader.Downloader]

Selects from the given list, the downloaders with the given language.

Parameters

- **lang** – the language of the downloaders to select.
- **downloaders** – a list of downloaders.

Returns a list of downloaders with the given language.

`smd.get_args_parser()` → `argparse.ArgumentParser`

Creates an arguments parser for the program is command line interface.

Parameters **version** – the application is version number.

Returns the arguments parser.

`smd.keyboard_interrupt` (*function: Callable*) → Callable

Makes the decorated function to handle keyboard interrupt gracefully.

`smd.list_downloaders` (*downloaders: List[smd.downloader.Downloader]*) → None

Prints the list of the given downloaders.

Parameters `downloaders` – a list of downloaders.

`smd.resume` (*downloaders: List[smd.downloader.Downloader], mangas: Union[List[str], str]*) → None

Resumes a previously canceled manga download.

Parameters `downloaders` – the supported downloaders. `param mangas`: a list of paths to manga folders or a path to a folder

where the manga folders are stored.

`smd.select_downloader` (*downloaders: List[smd.downloader.Downloader]*) → `smd.downloader.Downloader`

Lets the user choose one downloader from the give list, keeps asking if the user enters invalid option.

Parameters `downloaders` – a list of downloaders.

Returns the selected downloader.

`smd.select_lang` (*langs: List[str]*) → str

Lets the user select a language from the given list, keeps asking if the user enters invalid option.

Parameters `langs` – the list of languages.

Returns the selected language.

`smd.set_site` (*site: str, downloaders: List[smd.downloader.Downloader]*) → None

Sets the downloader of the given site as the preferred.

Parameters

- **site** – the site name (same as `smd.downloader.Downloader.name`)
- **downloaders** – the list of supported downloaders.

`smd.show_copyright` () → None

Shows copyright notice.

`smd.update` (*downloaders: List[smd.downloader.Downloader], mangas: Union[List[str], str]*) → None

Updates a previously downloaded manga.

Parameters

- **downloaders** – a list of supported downloaders.
- **mangas** – a list of paths to manga folders or a path to a folder where the manga folders are stored.

4.1 smd.downloader

This module provides the downloaders able to grab content from the supported sites.

class `smd.downloader.Downloader` (*name: str, lang: str, site_url: str*)

Abstract class base of all manga downloaders.

download (*manga_name: str, chapter_selectors: str*) → bool

Searches for the given manga and, if found, chapters specified in `chapter_selectors` are downloaded.

Parameters

- **manga_name** – the manga to search and download.
- **chapter_selectors** – a string specifying the chapters to download.

Returns `True` if the manga was downloaded successfully, `False` otherwise.

download_img (*url: str, name: str*) → *str*

Receives an image URL and a filename (without a file extension) and downloads the image, detects image format and save it to the given filename plus the proper extension.

Parameters

- **url** – the URL of the image.
- **name** – the name to use for the saved image (without file extension)

Returns the file name with file extension of the downloaded image.

get_bytes (*url: str, data: dict = None, method: str = 'GET', xhr: bool = False*) → *bytes*

Retrieves data from given URL.

Parameters

- **url** – the URL to retrieve.
- **data** – the data to send with the request.
- **method** – the method to use to request the URL (POST/GET).
- **xhr** – if `True` set the header 'X-Requested-With' to 'XMLHttpRequest'

Returns the response data.

Raises

- **ConnectionResetError** – if the connection is reset more than five times.
- **ValueError** – if `method` is not GET or POST.

get_chapters (*manga_url: str*) → *List[Chapter]*

Extracts the manga chapters from the given manga URL.

Parameters **manga_url** – the URL of a manga.

Returns the list of chapters of the given manga.

get_image (*image_url: str*) → *str*

If needed, child classes must override this method to extracts the image link from the given URL.

Parameters **image_url** – the image URL or an URL to a page where the image link can be extracted.

Returns the image URL.

get_images (*chapter_url: str*) → *List[str]*

Extracts the images links from a chapter URL.

Parameters **chapter_url** – the URL of a manga chapter.

Returns list of image URLs for the given chapter, or a list of URLs where the images can be extracted using `get_image()`.

get_json (**args, **kwargs*) → *Any*

Request json data from the given url, the given parameters are passed to `get_str()` method.

Returns the response data object.

get_str (*args, **kwargs) → str

Calls `get_bytes()` with the given parameters and returns the response bytes decoded.

resume (manga: *smd.utils.Manga*) → int

Continues with the (unfinished) download of the given manga.

Parameters **manga** – the manga to continue downloading.

Returns the number of resumed mangas.

search (manga: str) → List[Manga]

Searches for mangas matching the given text.

Parameters **manga** – a frase or manga title to search.

Returns a list of mangas.

update (manga: *smd.utils.Manga*) → int

Downloads new available chapters of the given manga.

Parameters **manga** – the manga to update.

Returns the number of updated mangas.

class *smd.downloader*.**HeavenManga**

Downloads manga from heavenmanga.com.

get_chapters (manga_url: str) → List[Chapter]

Extracts the manga chapters from the given manga URL.

Parameters **manga_url** – the URL of a manga.

Returns the list of chapters of the given manga.

get_image (image_url: str) → str

If needed, child classes must override this method to extracts the image link from the given URL.

Parameters **image_url** – the image URL or an URL to a page where the image link can be extracted.

Returns the image URL.

get_images (chapter_url: str) → List[str]

Extracts the images links from a chapter URL.

Parameters **chapter_url** – the URL of a manga chapter.

Returns list of image URLs for the given chapter, or a list of URLs where the images can be extracted using `get_image()`.

search (manga: str) → List[Manga]

Searches for mangas matching the given text.

Parameters **manga** – a frase or manga title to search.

Returns a list of mangas.

class *smd.downloader*.**MangaAll**

Downloads manga from mangaall.net.

get_chapters (manga_url: str) → List[Chapter]

Extracts the manga chapters from the given manga URL.

Parameters **manga_url** – the URL of a manga.

Returns the list of chapters of the given manga.

get_image (*image_url: str*) → str

If needed, child classes must override this method to extracts the image link from the given URL.

Parameters **image_url** – the image URL or an URL to a page where the image link can be extracted.

Returns the image URL.

get_images (*chapter_url: str*) → List[str]

Extracts the images links from a chapter URL.

Parameters **chapter_url** – the URL of a manga chapter.

Returns list of image URLs for the given chapter, or a list of URLs where the images can be extracted using `get_image()`.

search (*manga: str*) → List[Manga]

Searches for mangas matching the given text.

Parameters **manga** – a frase or manga title to search.

Returns a list of mangas.

class `smd.downloader.MangaDoor`

Downloads manga from mangadoor.com.

get_chapters (*manga_url: str*) → List[Chapter]

Extracts the manga chapters from the given manga URL.

Parameters **manga_url** – the URL of a manga.

Returns the list of chapters of the given manga.

get_image (*image_url: str*) → str

If needed, child classes must override this method to extracts the image link from the given URL.

Parameters **image_url** – the image URL or an URL to a page where the image link can be extracted.

Returns the image URL.

get_images (*chapter_url: str*) → List[str]

Extracts the images links from a chapter URL.

Parameters **chapter_url** – the URL of a manga chapter.

Returns list of image URLs for the given chapter, or a list of URLs where the images can be extracted using `get_image()`.

search (*manga: str*) → List[Manga]

Searches for mangas matching the given text.

Parameters **manga** – a frase or manga title to search.

Returns a list of mangas.

class `smd.downloader.MangaHere`

Downloads manga from www.mangahere.cc.

get_chapters (*manga_url: str*) → List[Chapter]

Extracts the manga chapters from the given manga URL.

Parameters **manga_url** – the URL of a manga.

Returns the list of chapters of the given manga.

get_image (*image_url: str*) → str

If needed, child classes must override this method to extracts the image link from the given URL.

Parameters **image_url** – the image URL or an URL to a page where the image link can be extracted.

Returns the image URL.

get_images (*chapter_url: str*) → List[str]

Extracts the images links from a chapter URL.

Parameters **chapter_url** – the URL of a manga chapter.

Returns list of image URLs for the given chapter, or a list of URLs where the images can be extracted using `get_image()`.

search (*manga: str*) → List[Manga]

Searches for mangas matching the given text.

Parameters **manga** – a frase or manga title to search.

Returns a list of mangas.

class `smd.downloader.MangaNelo`

Downloads manga from manganelo.com.

get_chapters (*manga_url: str*) → List[Chapter]

Extracts the manga chapters from the given manga URL.

Parameters **manga_url** – the URL of a manga.

Returns the list of chapters of the given manga.

get_images (*chapter_url: str*) → List[str]

Extracts the images links from a chapter URL.

Parameters **chapter_url** – the URL of a manga chapter.

Returns list of image URLs for the given chapter, or a list of URLs where the images can be extracted using `get_image()`.

search (*manga: str*) → List[Manga]

Searches for mangas matching the given text.

Parameters **manga** – a frase or manga title to search.

Returns a list of mangas.

class `smd.downloader.MangaReader`

Downloads manga from www.mangareader.net.

get_chapters (*manga_url: str*) → List[Chapter]

Extracts the manga chapters from the given manga URL.

Parameters **manga_url** – the URL of a manga.

Returns the list of chapters of the given manga.

get_image (*image_url: str*) → str

If needed, child classes must override this method to extracts the image link from the given URL.

Parameters **image_url** – the image URL or an URL to a page where the image link can be extracted.

Returns the image URL.

get_images (*chapter_url: str*) → List[str]

Extracts the images links from a chapter URL.

Parameters **chapter_url** – the URL of a manga chapter.

Returns list of image URLs for the given chapter, or a list of URLs where the images can be extracted using `get_image()`.

search (*manga: str*) → List[Manga]

Searches for mangas matching the given text.

Parameters **manga** – a frase or manga title to search.

Returns a list of mangas.

class `smd.downloader.NineManga` (*site: str*)

Downloads manga from ninemanga.com.

get_chapters (*manga_url: str*) → List[Chapter]

Extracts the manga chapters from the given manga URL.

Parameters **manga_url** – the URL of a manga.

Returns the list of chapters of the given manga.

get_image (*image_url: str*) → str

If needed, child classes must override this method to extracts the image link from the given URL.

Parameters **image_url** – the image URL or an URL to a page where the image link can be extracted.

Returns the image URL.

get_images (*chapter_url: str*) → List[str]

Extracts the images links from a chapter URL.

Parameters **chapter_url** – the URL of a manga chapter.

Returns list of image URLs for the given chapter, or a list of URLs where the images can be extracted using `get_image()`.

search (*manga: str*) → List[Manga]

Searches for mangas matching the given text.

Parameters **manga** – a frase or manga title to search.

Returns a list of mangas.

`smd.downloader.get_downloaders()` → List[Downloader]

Creates a list with instances of all supported downloaders.

Returns the list of all supported downloaders.

4.2 smd.utils

This module provides utility functions and classes.

class `smd.utils.Chapter` (*path: str, title: str, url: str*)

Class representing a chapter folder.

static from_folder (*path: str*) → `smd.utils.Chapter`

Creates a `Chapter` instance from a folder path.

Parameters **path** – the path to the chapter folder.

Returns the created *Chapter* instance.

class `smd.utils.Config` (*path: str*)

Class to manage the configuration of smd

exists () → bool

Checks if the configuration file exists.

Returns True if the configuration file exists, False otherwise.

load () → List[str]

Loads the configuration from disk.

Returns a list with the loaded configuration files.

reset () → None

Resets all configuration values to the defaults.

save () → None

Saves the configuration to disk.

class `smd.utils.ConsoleFilter` (*name=""*)

A filter to avoid showing exceptions stack traces text in user's terminal.

static filter (*record: logging.LogRecord*) → bool

Removes exception stack traces information.

class `smd.utils.Manga` (*path: str, title: str, url: str, site: str*)

Class representing a manga folder.

chapters () → Iterator[Chapter]

Returns an iterator that yields chapters found in the manga folder

static from_folder (*path: str*) → `smd.utils.Manga`

Creates a *Manga* instance from a folder path.

Parameters *path* – the path to the manga folder.

Returns the created *Manga* instance.

get_new_chapter_path () → str

Generates a nonexistent chapter path. :return: a path to a chapter folder that don't already exists.

class `smd.utils.MetaFolder` (*path: str*)

Abstract class representing a meta data folder.

data_file

The path to the meta data file.

static from_folder (*path: str*) → `smd.utils.MetaFolder`

Creates a *MetaFolder* instance from a folder path.

Parameters *path* – path to a folder.

Returns the created instance.

classmethod is_valid (*path: str*) → bool

Checks whether the given path is a valid *MetaFolder* or not.

Parameters *path* – path to a folder.

Returns True if the given folder is valid, False otherwise.

`smd.utils.die` (*msg: str, status: int = 1*) → NoReturn

Shows a message and terminates the program execution.

Parameters

- **msg** – the message to show before terminating the application.
- **status** – the exit code.

`smd.utils.get_mangas (path: str) → List[Manga]`

Gets all mangas found in the given folder.

Parameters **path** – path to a folder.

Returns the list of mangas found.

`smd.utils.get_text (tag: bs4.Tag) → str`

Extracts the text from a BeautifulSoup tag.

Parameters **tag** – the tag to extract text from.

Returns the tag text without `\n` and with trailing white spaces removed.

`smd.utils.mkdir (dirname: str, basename: str) → str`

Tries to create a new folder `basename` in the folder `dirname` if the name of the new folder is invalid or already exists ask the user to enter a new one.

Parameters

- **dirname** – the parent directory of the new folder.
- **basename** – the name of the folder.

Returns the path of the new created folder.

`smd.utils.persistent_operation (function: Callable) → Callable`

Makes the decorated function to execute again on `KeyboardInterrupt` or `SystemExit` exceptions.

`smd.utils.random_ua () → str`

Generates a random User-Agent HTTP header.

`smd.utils.select_chapters (chapters: List[Chapter], selectors_str: str) → List[Chapter]`

Selects the chapters specified in the given selectors.

Parameters

- **chapters** – a list of chapters.
- **selectors** – a string of comma-separated selectors.

Returns a list of selected chapters.

`smd.utils.select_mangas (mangas: List[Manga], list_header: str = 'Found:', prompt_msg: str = 'Select a manga', multiple: bool = True) → List[Manga]`

Lets the user select a manga from the given list, keeps asking if the user enters invalid option numbers.

Parameters

- **mangas** – a list of mangas.
- **list_header** – the header message to show on top of the list.
- **prompt_msg** – the message prompt.
- **multiple** – if `True` allows to select multiple choices.

Returns the selected manga (or mangas).

CHAPTER 5

License

Simple Manga Downloader

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