# Simple Manga Downloader Documentation

*Release 1.6.0*

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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.

This 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*.

# CHAPTER 2

# 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 named "15.5" actually it is the chapter 16 in the list and 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`.

CHAPTER 3

# Simple Manga Downloader Changelog

## 3.1 Version 1.6.0

Released on July 31, 2018

- **New:** Now `smd` is *smarter*, it keeps metadata 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.

## 3.2 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.

## 3.3 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.get_args_parser(version)`

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

**Parameters** **version** (*str*) – the application is version number.

**Return type** `argparse.ArgumentParser`

`smd.show_copyright()`

Shows copyright notice.

## 4.1 smd.downloader

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

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

Abstract class base of all manga downloaders.

**download**(*manga*, *chapter_selectors=None*)

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

**Parameters**

- **manga** (*str*) – the manga to download.
- **chapter_selectors** (*str*) – a string specifying the chapters to download.

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

**download_img**(*url*, *name*)

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

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

**Return type** str

**get** (*url*, *data=None*, *method='GET'*, *xhr=False*, *decode=True*)
Retrieves data from given URL.

**Parameters**

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

**Returns** the response data.

**Raises** **ConnectionResetError** – if the connection is reset more than five times.

**get_chapters** (*manga_url*)
Extracts the manga chapters from the given manga URL.

**Parameters** **manga_url** (*str*) – the URL of a manga.

**Returns** a list of tuples each one with two strings: the title and URL of a chapter from the given manga.

**classmethod get_image** (*image_url*)
If needed, extracts the image link from the given URL.

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

**Returns** the image URL.

**Return type** str

**get_images** (*chapter_url*)
Extracts the images links from a chapter URL.

**Parameters** **chapter_url** (*str*) – 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** (*url*, *data=None*, *method='GET'*)
Request json data from the given url.

**Parameters**

- **url** (*str*) – the URL to request.
- **data** (*dict*) – the data to send in the request.
- **method** (*str*) – the method to use for the request.

**Returns** the response data object.

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

**Parameters** **manga** (*Manga*) – the manga to continue downloading.

**Returns** the number of resumed mangas.

**Return type** int

**search** (*manga*)
Searches for mangas matching the given text.

**Parameters** **manga** (*str*) – a frase or manga title to search.

**Returns** a list of tuples each one with two strings: the title and URL of a matched manga.

**update** (*manga*)
Downloads new available chapters of the given manga.

**Parameters** **manga** (*Manga*) – the manga to update.

**Returns** the number of updated mangas.

**Return type** int

**class** smd.downloader.**HeavenManga**
Downloads manga from heavenmanga.com.

**get_chapters** (*manga_url*)
Extracts the manga chapters from the given manga URL.

**Parameters** **manga_url** (*str*) – the URL of a manga.

**Returns** a list of tuples each one with two strings: the title and URL of a chapter from the given manga.

**get_image** (*image_url*)
If needed, extracts the image link from the given URL.

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

**Returns** the image URL.

**Return type** str

**get_images** (*chapter_url*)
Extracts the images links from a chapter URL.

**Parameters** **chapter_url** (*str*) – 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*)
Searches for mangas matching the given text.

**Parameters** **manga** (*str*) – a frase or manga title to search.

**Returns** a list of tuples each one with two strings: the title and URL of a matched manga.

**class** smd.downloader.**MangaAll**
Downloads manga from mangaall.net.

**get_chapters** (*manga_url*)
Extracts the manga chapters from the given manga URL.

**Parameters** **manga_url** (*str*) – the URL of a manga.

**Returns** a list of tuples each one with two strings: the title and URL of a chapter from the given manga.

**get_image** (*image_url*)
If needed, extracts the image link from the given URL.

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

**Returns** the image URL.

**Return type** str

**get_images** (*chapter_url*)
Extracts the images links from a chapter URL.

**Parameters** **chapter_url** (*str*) – 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*)
Searches for mangas matching the given text.

**Parameters** **manga** (*str*) – a frase or manga title to search.

**Returns** a list of tuples each one with two strings: the title and URL of a matched manga.

**class** smd.downloader.**MangaDoor**
Downloads manga from mangadoor.com.

**get_chapters** (*manga_url*)
Extracts the manga chapters from the given manga URL.

**Parameters** **manga_url** (*str*) – the URL of a manga.

**Returns** a list of tuples each one with two strings: the title and URL of a chapter from the given manga.

**get_image** (*image_url*)
If needed, extracts the image link from the given URL.

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

**Returns** the image URL.

**Return type** str

**get_images** (*chapter_url*)
Extracts the images links from a chapter URL.

**Parameters** **chapter_url** (*str*) – 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*)
Searches for mangas matching the given text.

**Parameters** **manga** (*str*) – a frase or manga title to search.

**Returns** a list of tuples each one with two strings: the title and URL of a matched manga.

**class** smd.downloader.**MangaHere**
Downloads manga from www.mangahere.cc.

**get_chapters**(*manga_url*)
Extracts the manga chapters from the given manga URL.

**Parameters** **manga_url** (*str*) – the URL of a manga.

**Returns** a list of tuples each one with two strings: the title and URL of a chapter from the given manga.

**get_image**(*image_url*)
If needed, extracts the image link from the given URL.

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

**Returns** the image URL.

**Return type** str

**get_images**(*chapter_url*)
Extracts the images links from a chapter URL.

**Parameters** **chapter_url** (*str*) – 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*)
Searches for mangas matching the given text.

**Parameters** **manga** (*str*) – a frase or manga title to search.

**Returns** a list of tuples each one with two strings: the title and URL of a matched manga.

**class** smd.downloader.**MangaNelo**
Downloads manga from manganelo.com.

**get_chapters**(*manga_url*)
Extracts the manga chapters from the given manga URL.

**Parameters** **manga_url** (*str*) – the URL of a manga.

**Returns** a list of tuples each one with two strings: the title and URL of a chapter from the given manga.

**get_images**(*chapter_url*)
Extracts the images links from a chapter URL.

**Parameters** **chapter_url** (*str*) – 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*)
Searches for mangas matching the given text.

**Parameters** **manga** (*str*) – a frase or manga title to search.

**Returns** a list of tuples each one with two strings: the title and URL of a matched manga.

**class** smd.downloader.**MangaReader**
Downloads manga from www.mangareader.net.

**get_chapters**(*manga_url*)
Extracts the manga chapters from the given manga URL.

**Parameters** **manga_url** (*str*) – the URL of a manga.

**Returns** a list of tuples each one with two strings: the title and URL of a chapter from the given manga.

**get_image**(*image_url*)
If needed, extracts the image link from the given URL.

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

**Returns** the image URL.

**Return type** str

**get_images**(*chapter_url*)
Extracts the images links from a chapter URL.

**Parameters** **chapter_url** (*str*) – 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*)
Searches for mangas matching the given text.

**Parameters** **manga** (*str*) – a frase or manga title to search.

**Returns** a list of tuples each one with two strings: the title and URL of a matched manga.

**class** smd.downloader.**NineManga**(*site*)
Downloads manga from ninemanga.com.

**get_chapters**(*manga_url*)
Extracts the manga chapters from the given manga URL.

**Parameters** **manga_url** (*str*) – the URL of a manga.

**Returns** a list of tuples each one with two strings: the title and URL of a chapter from the given manga.

**get_image**(*image_url*)
If needed, extracts the image link from the given URL.

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

**Returns** the image URL.

**Return type** str

**get_images**(*chapter_url*)
Extracts the images links from a chapter URL.

**Parameters** **chapter_url** (*str*) – 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*)
Searches for mangas matching the given text.

**Parameters** **manga** (*str*) – a frase or manga title to search.

**Returns** a list of tuples each one with two strings: the title and URL of a matched manga.

smd.downloader.**get_downloaders**()
Creates a list with instances of all supported downloaders.

**Returns** the list of all supported downloaders.

**Return type** list of `Downloader`

## 4.2 smd.utils

This module provides utility functions and classes.

**class** `smd.utils.`**`Chapter`**(*path*, *title=None*, *url=None*)

Class representing a chapter folder.

**static from_folder**(*path*)

Creates a `Chapter` instance from a folder path.

**Parameters** **path** (`str`) – the path to the chapter folder.

**Returns** the created `Chapter` instance.

**classmethod is_chapter**(*chapter_path*)

Checks whether the given folder is a chapter folder or not.

**Parameters** **chapter_path** (`str`) – path to a folder.

**Returns** `True` if the given folder is a chapter, `False` otherwise.

**save_data**()

Saves chapter meta data.

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

Class to manage the configuration of `smd`

**exists**()

Checks if the configuration file already exists.

**Returns** `True` if the configuration file exists, `False` otherwise.

**load**()

Loads the configuration from disk.

**Returns** a list with the loaded configuration files.

**reset**()

Resets all configuration values to the defaults.

**save**()

Saves the configuration to disk.

**class** `smd.utils.`**`ConsoleFilter`**

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

**static filter**(*record*)

Removes exception stack traces information.

**class** `smd.utils.`**`Manga`**(*path*, *title=None*, *url=None*, *site=None*)

Class representing a manga folder.

**chapters**

The chapters found in the manga folder

**chapters_iter**()

Returns an iterator that yields chapters found in the manga folder

**static from_folder**(*path*)
Creates a *Manga* instance from a folder path.

**Parameters** **path** (*str*) – the path to the manga folder.

**Returns** the created *Manga* instance.

**classmethod is_manga**(*manga_path*)
Checks whether the given folder is a manga folder or not.

**Parameters** **manga_path** (*str*) – path to a folder.

**Returns** `True` if the given folder is a manga, `False` otherwise.

**save_data**()
Saves manga meta data.

smd.utils.**create_config_folder**()
Creates the application is configuration folder.

**Returns** the path to the configuration folder.

**Return type** str

smd.utils.**die**(*msg*, *status=1*)
Shows a message and terminates the program execution.

**Parameters**

- **msg** (*str*) – the message to show before terminating the application.
- **status** (*int*) – the exit code.

smd.utils.**download**(*downloaders*, *manga*, *chapter_selectors*, *tryall*)
Downloads the given manga using one of the given downloaders.

**Parameters**

- **downloaders** (*list*) – the downloaders.
- **manga** (*str*) – the manga name.
- **chapter_selectors** (*str*) – the chapters to download.
- **tryall** (*bool*) – when `True` if a downloader fail, then tries other downloaders.

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

smd.utils.**filter_downloaders**(*lang*, *downloaders*)
Selects from the given list, the downloaders with the given language.

**Parameters**

- **lang** (*str*) – the language of the downloaders to select.
- **downloaders** (*list*) – a list of downloaders (*Downloader*).

**Returns** a list of downloaders with the given language.

smd.utils.**get_mangas**(*path*)
Gets all mangas found in the given folder.

**Parameters** **path** (*str*) – path to a folder.

**Returns** the list of mangas found.

smd.utils.**get_text**(*tag*)
Extracts the text from a BeautifulSoup tag.

**Parameters** **tag** (bs4.Tag) – the tag to extract text from.

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

smd.utils.**keyboard_interrupt**(*function*)
Makes the decorated function to handle keyboard interrupt gracefully.

smd.utils.**list_downloaders**(*downloaders*)
Prints the list of the given downloaders (Downloader).

**Parameters** **downloaders** (*list*) – a list of downloaders.

smd.utils.**mkdir**(*dirname*, *basename*)
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** (*str*) – the parent directory of the new folder.
- **basename** (*str*) – the name of the folder.

**Returns** the path of the new created folder.

**Return type** str

smd.utils.**resume**(*downloaders*, *mangas*)
Resumes a previously canceled manga download.

**Parameters**

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

smd.utils.**select_chapters**(*chapters*, *selectors*)
Selects the chapters specified in the given selectors.

**Parameters**

- **chapters** – a list of chapters (Chapter).
- **selectors** (*str*) – a string of comma-separated selectors.

**Returns** a set of selected chapters.

**Return type** set

smd.utils.**select_downloader**(*downloaders*)
Lets the user choose one downloader from the give list, keeps asking if the user enters invalid option.

**Parameters** **downloaders** – a list of downloaders (Downloader).

**Returns** the selected downloader.

**Return type** Downloader

smd.utils.**select_lang**(*langs*)
Lets the user select a language from the given list, keeps asking if the user enters invalid option.

**Parameters** **langs** (*list*) – the list of languages.

**Returns** the selected language.

smd.utils.**select_manga**(*mangas*, *list_header='Found:'*, *prompt_msg='Select a manga'*, *multiple=False*)
Lets the user select a manga from the given list, keeps asking if the user enters invalid option numbers.

**Parameters**

- **mangas** – a list containing the manga (`Manga`) choices.
- **list_header** (*str*) – the header message to show on top of the list.
- **prompt_msg** (*str*) – the message prompt.
- **multiple** (*bool*) – if `True` allows to select multiple choices.

**Returns** the selected manga (or mangas).

**Return type** `Manga` or list of `Manga`

`smd.utils.`**`set_site`**(*site*, *downloaders*)

Sets the downloader of the given site as the preferred.

**Parameters**

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

`smd.utils.`**`update`**(*downloaders*, *mangas*)

Updates a previously downloaded manga.

**Parameters**

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

CHAPTER 5

# License

**Simple Manga Downloader**
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