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# **yt2mp3 Documentation**

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A program that simplifies the process of searching, downloading and converting Youtube videos to MP3 files from the command-line.

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All you need is the video URL or the name of the artist/track you're looking for. The program will attempt to retrieve data for a song matching the provided input by querying the iTunes API and use the data to find a corresponding YouTube video, if a URL is not provided. The video will then be downloaded, converted, and the gathered data will be used to populate the metadata of the MP3.

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**Note:** If a URL is provided and no match is found for the song data, the program will prompt the user for the title/artist and the YouTube thumbnail will be used as the album artwork.

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# CHAPTER 1

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## Contributing

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If you'd like to contribute to the project, feel free to suggest a [feature request](#) and/or submit a [pull request](#).

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## 2.1 Getting Started

### 2.1.1 Install

You can install the program with the following command:

```
$ pip install yt2mp3
```

### Prerequisites

The program only requires that you have Python 3.4+ and [ffmpeg](#) or [libav](#) installed. More installation information is available on the [additional setup](#) page.

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### 2.1.2 Usage

Once installed, the program can be executed via the command-line as follows:

```
$ yt2mp3 [-options]
```

When the program is finished, you can find the resulting MP3 file in your *Downloads* directory, with the following file-structure `Music/{artist}/{track}.mp3`.

### Options

<code>-t, --track</code>	Specify the track name query
<code>-a, --artist</code>	Specify the artist name query
<code>-c, --collection</code>	Specify the album name query
<code>-u, --url</code>	Specify a Youtube URL or ID
<code>-u, --url</code>	Specify a Youtube URL or ID
<code>-p, --playlist</code>	Specify a Youtube playlist URL or ID
<code>-o, --overwrite</code>	Overwrite the file if one exists in output directory
<code>-r, --resolution</code>	Specify the resolution for the cover-art
<code>-q, --quiet</code>	Suppress program command-line output
<code>-v, --verbose</code>	Display a command-line progress bar
<code>--version</code>	Show the version number and exit
<code>-h, --help</code>	Display information on usage and functionality

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### 2.1.3 Contributing

If you'd like to contribute to the project, you can download and install the program with the following commands:

```
# Clone the repository
$ git clone https://github.com/tterb/yt2mp3

# Navigate to the directory
$ cd yt2mp3

# Install program dependencies
$ pip install -r requirements.txt
```

## 2.2 Additional Setup

The project utilizes the `pydub` package for audio-file manipulation, which requires that a multimedia decoding library to function properly. You can use `ffmpeg` or `libav`.

### 2.2.1 Mac (using homebrew)

```
# ffmpeg
brew install ffmpeg --with-libvorbis --with-sdl2 --with-theora

#### OR ####

# libav
brew install libav --with-libvorbis --with-sdl --with-theora
```

## 2.2.2 Linux (using aptitude)

```
# libav
apt-get install libav-tools libavcodec-extra-53

#### OR ####

# ffmpeg
apt-get install ffmpeg libavcodec-extra-53
```

## 2.2.3 Windows

- Download and extract **libav** from Windows binaries [provided here](#).
- Add the **libav** */bin* folder to your PATH

## 2.3 Changelog

### 2.3.1 Version 1.2.4

- Improved optimal video retrieval by utilizing video and track lengths
- Normalized function and variable naming-conventions
- Added missing function docstrings
- Updated project dependencies

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### 2.3.2 Version 1.2.3

- Improved package CLI
- Modified `requests` version to avoid a potential [security vulnerability](#)
- Fixed [#22](#) - Python 3.4 compatibility
- Modified package to use `youtube-dl` for downloading videos
- Enhancement [#17](#) - Added option to specify album name

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### 2.3.3 Version 1.2.0

- Improved package file-structure
- Enhancement [#16](#) - Added custom cover-art resolution option
- Improved default cover-art resolution

- Added validation check for YouTube URLs
  - Improved command-line option parsing
  - Improved package test coverage and logging
  - Improved song data acquisition processes
  - Integrated [Codecov](#) code coverage
  - Improved playlist overwrite handling
  - Improve temporary file clean-up on *SystemExit* and *KeyboardInterrupt*
  - Removed unnecessary code/comments
- 

### 2.3.4 Version 1.1.0

- Added support for playlists
  - Improved command-line option functionality
  - Added duplicate check and overwrite command-line option
  - Added [Travis CI](#) integration testing
  - Improved cover-art resolution
  - Improved compatibility for Python < 3.6 versions
  - Improved ID3 tag embedding processes
- 

### 2.3.5 Version 1.0.5

- Added additional error-handling
  - Improved song data acquisition for YouTube URLs
  - Improved command-line option functionality
  - Added additional package documentation
  - Fixed issue with missing executable from PyPi
- 

### 2.3.6 Version 1.0.2

- Published package to [PyPi](#)
-

### 2.3.7 Version 1.0.0

- All features added
- All bugs created

## 2.4 Contributing

The following is a set of guidelines for contributing to this project. These are not rules, use your best judgment and feel free to propose changes to this document in a pull request.

### 2.4.1 Code of Conduct

This project adheres to the Contributor Covenant [code of conduct](#). By participating, you are expected to uphold this code. Please report unacceptable behavior [here](#).

### 2.4.2 How Can I Contribute?

#### Reporting Bugs

This section guides you through submitting a bug report for Atom. Following these guidelines helps maintainers and the community understand your report, reproduce the behavior, and find related reports.

- Before creating bug reports, please check the [existing issues](#) as you might find out that one has already been created by another user.
- When you are creating a bug report, please provide a clear and descriptive title.
- Please include as many details as possible in your report. Remember, in order to fix the issue, we must first be able to reproduce it.
- The use of images, GIFs, or any other form of media is not only *allowed*, it's **encouraged**.
- Include any relevant details about your configuration and environment.

#### Enhancements & Feature Requests

Users provide the best insight for improving a product. So always feel free to suggest improvements, feedback, and give the developers an idea of what new features you'd like to see in the future. **Don't forget, this is one of the greatest benefits of open-source development!** If you'd like to submit an enhancement request, please include the following information: \* Current project version (check that you are using the latest version) \* How would this enhancement benefit most users? \* Do you have any examples of other applications that feature this enhancement? \* Relevant details about your configuration and environment. \* **Note:** Don't forget to tag your post with the *Enhancement* label.

#### Pull Requests

**Working on your first Pull Request?** You can learn how from this *free* series [How to Contribute to an Open Source Project on GitHub](#)

- Provide as much information as possible on the changes made to existing code.
- Include thoughtfully-worded, well-structured commit messages and comments.
- Include screenshots and animated GIFs in your pull request whenever possible.
- When addressing an existing issue, please include an [issue mention](#) in the description of your pull request.
- End files with a newline.
- Avoid platform-dependent code on cross-platform applications.
- Ensure that submitted code follows the style guidelines specified in the [Styleguide](#) below.

### 2.4.3 Styleguides

#### Commit Messages

- Do your best to conform the tense to that of the existing commits. (“Add feature” not “Added feature” or vice versa)
- Use the imperative mood (“Move cursor to...” not “Moves cursor to...”)
- **Consider starting the commit message with an applicable emoji:**
  - `:art:` when improving the format/structure of the code
  - `:racehorse:` when improving performance
  - `:memo:` when writing docs
  - `:penguin:` when fixing something on Linux
  - `:apple:` when fixing something on macOS
  - `:checkered_flag:` when fixing something on Windows
  - `:bug:` when fixing a bug
  - `:recycle:` when refactoring code
  - `:fire:` when removing code or files
  - `:white_check_mark:` when adding tests
  - `:lock:` when dealing with security
  - `:iphone:` when working on responsive design
  - `:truck` when moving or renaming files
  - `:bento:` when adding or updating assets
  - `:building_construction:` when making architectural changes
  - `:wheelchair:` when improving accessibility
  - `:construction_worker:` when modifying the CI build
  - `:non-potable_water:` when plugging memory leaks
  - `:arrow_up:` when upgrading dependencies
  - `:arrow_down:` when downgrading dependencies
  - `:rotating_light:` when removing linter warnings

## Code

- **Use spaces around operators**
  - `count + 1` instead of `count+1`
- **Capitalize initialisms and acronyms in names, except for the first word, which should be lower-case:**
  - `getURL` instead of `getUrl`
- Provide comments for important or complex code
- Conform your code to the existing styles to the best of your ability
- Always check that your submission follows [The Boy Scout Rule](#)

## 2.5 The MIT License (MIT)

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## CHAPTER 3

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### Indices and tables

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- `genindex`
- `search`