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# **playlistfromsong Documentation**

***Release 2.1.1***

**Zack**

**Oct 28, 2017**



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# CHAPTER 1

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## playlistfromsong

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Generate an offline playlist from a single song.

### Features

- Similar song matching using last.fm or Spotify
- Automatic downloading of songs
- Builtin music server for webhooks

### Quickstart

First install `ffmpeg`:

```
sudo apt-get install ffmpeg      (DEBIAN)
brew install ffmpeg              (MAC)
```

Install with `pip`:

```
pip install playlistfromsong
```

Download a playlist of 5 songs similar to Miles Davis' *Blue In Green*:

```
playlistfromsong --song 'Miles Davis Blue In Green' --num 5 -f /path/to/save
```

Use a bearer token `--bearer` to use Spotify to find suggestions:

```
playlistfromsong --song 'Miles Davis Blue In Green' --num 5 -f /path/to/save -b
➔ 'BEARER'
```

For more complete usage, see the docs.





### Stable release

To install playlistfromsong, run this command in your terminal:

```
$ pip install playlistfromsong
```

This is the preferred method to install playlistfromsong, as it will always install the most recent stable release.

If you don't have [pip](#) installed, this [Python installation guide](#) can guide you through the process.

### From sources

The sources for playlistfromsong can be downloaded from the [Github repo](#).

You can either clone the public repository:

```
$ git clone git://github.com/schollz/playlistfromsong
```

Or download the [tarball](#):

```
$ curl -OL https://github.com/schollz/playlistfromsong/tarball/master
```

Once you have a copy of the source, you can install it with:

```
$ python setup.py install
```



### Generate a playlist from song

Download a playlist from a song by specifying the artist and the song:

```
playlistfromsong -s 'Miles Davis Blue In Green'
```

By default, three songs are downloaded (the original song plus 2 that are similar), but you can change this with `-n`:

```
playlistfromsong -s 'Miles Davis Blue In Green' -n 30
```

By default, the similar songs are found using last.fm, but you can choose to use Spotify instead, by providing a bearer token. Obtain a bearer token by going to <https://developer.spotify.com/web-api/console/get-track/> and click “Get OAUTH\_TOKEN”. Then apply your token::

```
playlistfromsong -s 'Miles Davis Blue In Green' -n 30 -b 'TOKEN'
```

Finally, you can specify a specific place to store the files by using the `-f` flag:

```
playlistfromsong -s 'Miles Davis Blue In Green' -f /music
```

### Simple music server

There is a built-in simple music server that you can use to play your music, but also includes an API for webhooks for automatically generating playlists from songs.

Star the server using:

```
playlistfromsong --serve -f /path/to/music
```

The default port is 5000, and you should be able to see your server at <http://localhost:5000>. You can also specify the port with `--port X`.

There are routes for directly downloading songs. For instance, to generate a playlist in the current folder, just open:

```
http://localhost:5000/download/10/Miles Davis Blue In Green
```

This is very effective for using with IFTTT to automatically download playlists based on songs that are liked on Youtube / Spotify.

Contributions are welcome, and they are greatly appreciated! Every little bit helps, and credit will always be given. You can contribute in many ways:

### Types of Contributions

#### Report Bugs

Report bugs at <https://github.com/schollz/playlistfromsong/issues>.

If you are reporting a bug, please include:

- Your operating system name and version.
- Any details about your local setup that might be helpful in troubleshooting.
- Detailed steps to reproduce the bug.

#### Fix Bugs

Look through the GitHub issues for bugs. Anything tagged with “bug” and “help wanted” is open to whoever wants to implement it.

#### Implement Features

Look through the GitHub issues for features. Anything tagged with “enhancement” and “help wanted” is open to whoever wants to implement it.

## Write Documentation

playlistfromsong could always use more documentation, whether as part of the official playlistfromsong docs, in docstrings, or even on the web in blog posts, articles, and such.

## Submit Feedback

The best way to send feedback is to file an issue at <https://github.com/schollz/playlistfromsong/issues>.

If you are proposing a feature:

- Explain in detail how it would work.
- Keep the scope as narrow as possible, to make it easier to implement.
- Remember that this is a volunteer-driven project, and that contributions are welcome :)

## Get Started!

Ready to contribute? Here's how to set up *playlistfromsong* for local development.

1. Fork the *playlistfromsong* repo on GitHub.
2. Clone your fork locally:

```
$ git clone git@github.com:your_name_here/playlistfromsong.git
```

3. Install your local copy into a virtualenv. Assuming you have virtualenvwrapper installed, this is how you set up your fork for local development:

```
$ mkvirtualenv playlistfromsong
$ cd playlistfromsong/
$ python setup.py develop
```

4. Create a branch for local development:

```
$ git checkout -b name-of-your-bugfix-or-feature
```

Now you can make your changes locally.

5. When you're done making changes, check that your changes pass flake8 and the tests, including testing other Python versions with tox:

```
$ flake8 playlistfromsong tests
$ python setup.py test or py.test
$ tox
```

To get flake8 and tox, just pip install them into your virtualenv.

6. Commit your changes and push your branch to GitHub:

```
$ git add .
$ git commit -m "Your detailed description of your changes."
$ git push origin name-of-your-bugfix-or-feature
```

7. Submit a pull request through the GitHub website.

## Pull Request Guidelines

Before you submit a pull request, check that it meets these guidelines:

1. The pull request should include tests.
2. If the pull request adds functionality, the docs should be updated. Put your new functionality into a function with a docstring, and add the feature to the list in README.rst.
3. The pull request should work for Python 2.6, 2.7, 3.3, 3.4 and 3.5, and for PyPy. Check [https://travis-ci.org/schollz/playlistfromsong/pull\\_requests](https://travis-ci.org/schollz/playlistfromsong/pull_requests) and make sure that the tests pass for all supported Python versions.

## Tips

To run a subset of tests:

```
$ py.test tests.test_playlistfromsong
```





## CHAPTER 5

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### Credits

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#### Development Lead

- Zack <hypercube.platforms@gmail.com>

#### Contributors

None yet. Why not be the first?



#### **2.0.0 (2017-07-04)**

- New `--server` option for starting a music server

#### **1.0.0 (2017-06-25)**

- Move to cookiecutter for improved packaging and tests

#### **0.21.0 (2017-03-29)**

- First stable release



## CHAPTER 7

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### Indices and tables

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- `genindex`
- `modindex`
- `search`