

# Check It Out!

**GitHub:** [cole-wilson/sailboat](https://github.com/cole-wilson/sailboat)  
(leave a ☆ if you like it!)

**Website:** [sailboat.colewilson.xyz](https://sailboat.colewilson.xyz)

**Email:** [sailboat@colewilson.xyz](mailto:sailboat@colewilson.xyz)

**Tutorial:** [youtu.be/zQQ3B5MDV0s](https://youtu.be/zQQ3B5MDV0s)

**Install:** `pip3 install sailboat`



# Sailboat

*the Python developer's best friend*

Stars 141

downloads 707/month

license MIT

commit activity 4/month

latest release april

release v0.26.1

build passing

code size 72.6 kB

# About Me

I am a high school student developer who is interested in Linux and full-stack web development, but mainly Python. I started learning Python in second grade and I love it! Sailboat is my first large open-source project (not my last!), and I am learning a bunch working on it.

## About

Sailboat is a Python developer's best friend. It's a Python build tool that can do anything you need it to! Sailboat is made for anyone, whether you are a beginner on your very first project, or a senior software engineer with years of experience.

Sailboat also uses a plugin based architecture. Every single command or subcommand is a plugin, even the core features! This extensible design allows anyone (even you) to make their own plugin!

The best way to understand it is to provide a high-level example. I reccomend you watch the video that goes along with this poster, as I will be walking through every step of the following examples.

## Example

You are welcome to follow along with this tutorial, though a longer video can be found at [youtu.be/zQQ3B5MDV0s](https://youtu.be/zQQ3B5MDV0s).

Let's say we have a Python program in `main.py`. It's Magic Eight Ball for the terminal, a simple but interesting game. We are very proud of this simple app, and we want to use it to make:

- an installable Homebrew package.
- an `pip` installable Python module, and correct package directory structure.
- a command for all terminals that allows us to just run `hello` instead of `python3 ./path/to/file.py`.
- Mac, Windows, and Unix executables that people can install without needing Python and installers to go with them.
- a free CI/CD release workflow with GitHub Actions.
- a GitHub repo for our project, without knowledge of the command line `git` interface. (for beginners)

Normally, it would take a TON of work and time to accomplish just one of these tasks, let alone all of them. With `sailboat`, it will literally *only take 5 minutes\** to do all of it, with NOTHING but a `main.py` file, and an optional icon file. To achieve this, we just need to type out the following commands in our terminal.

*\* the video tutorial is longer because of explanations.*

```
sailboat quickstart # configuration
# Config details in ./sailboat.toml
sail add actions # Add the CI/CD plugin.
sailboat build 0.0.1 # Build
sailboat release # Release built files.
```

This is great! While we have now achieved all of our tasks, this example barely scratches the surface of what we can do. Sailboat can actually do a whole lot more, such as integrating other build systems into it, adding custom subcommands (like `sailboat tasks` for `#todo:` comments), and release plugins (like posting to a Slack channel for every release!). It is also very easy to write your own plugin.

## Example Plugin

The following code snippet is an example build plugin that just says hi when it's run.

```
import os, re
from sailboat import Plugin
class SetVersion(Plugin):
    _type = "build"
    def run(self):
        print('Hi!')
```



So what do you think? Try it out and let me know if you have any questions.