

# Replay repo directories

The Spike Prime app does not allow multi-file projects. This means that building complex projects will result in a very long file. This makes it hard to organize, develop, and troubleshoot your code. There is also no way to share code across two Spike Prime projects. A spike prime project is stored as a binary file with a `.llsp` extension. This is actually a zip file. Git cannot interpret the binary file, and this makes it impossible to see differences in code.

To solve the problem, we take advantage of the micropython REPL running on the Spike Prime, and use a tool called ampy to put files directly on the spike hub. We then can import the files in the spike app to use them.

## Directory Structure

This repository has 2 directories: - spike: contains the projects that are run in the Spike Prime app. These files end with `.llsp` - techtigers: contains the class and mission program files that will be loaded on to the Spike Prime hub. These files end with `.py`

## Deploying *spike* files to the hub

Create the file on the Spike App, connect to Spike hub to the App, and run the file that needs to be deployed.

## Deploying *techtigers* files to the hub

### Prerequisites

Download and install ampy Install [ampy](#) Type `ampy --help` in the terminal to see commands for ampy  
To find the port name, type `cd /dev` in the terminal, and type `ls` Look for a device that starts with `tty.LEGOHubLillian` and copy it

### Deployment

Create the file using your favorite editor (we recommend [Visual Studio Code](#)).

You can use ampy to copy files to the spike prime hub like this:

```
ampy -p /dev/ttyUSBxxxxx put my_file.py
```

- where the `/dev/ttyUSBxxx` should be the device you copied, and `my_file.py` is the name of the file that needs to be deployed