

## PiPlanter Code Structure

---

### Code.py

- Description
  - Location
  - Functions
    1. Function 1
    2. Function 2
    3. Function 3
- 

### Master.py

- The main piece of code that pulls together all of the hardware and software functions of the PiPlanter. Contains the main APScheduler timer that runs everything.
- The location of this file determines where everything else goes.
- Functions
  1. FirstTimeSetup
  2. MySQLTableSetup
  3. VisualLocationSetup
  4. aLoop
  5. bLoop
  6. cLoop
  7. dLoop

### Hardware.py

- Interfaces the hardware elements of the PiPlanter (Camera's, ADC's, Arduino's with pumps etc) with the rest of the software.
- Same location as Master.py
- Functions
  1. ReadADC0
  2. ReadADC1
  3. ConvertADC
  4. PollSensor
  5. SampleAllSensors
  6. PumpWater
  7. Image

### RenderData.py

- Renders timelapse movies and graphs are handled in this source code.
- Same location as Master.py
- Functions
  1. RenderGraph
  2. RenderVideo

### DataToWeb.py

- Handles twitter, youtube and emails
- Same location as Master.py
- Functions
  1. TryTweet
  2. UploadVideo

### Log.py

- A file that generates a log file, a backend link between all the modules desposits a log.txt file in the same directory as Master.py
- Same location as Master.py
- Functions
  1. ConsoleDebug