

mm3_MovieMaker.py

This script takes a series of TIFF images and saves them into .mp4 videos. It uses ffmpeg (<https://trac.ffmpeg.org/wiki/CompilationGuide/MacOSX>) which must be installed separately. The Python script, after getting the image information from the experimental folder, is actually initiating a shell command of ffmpeg.

In addition it uses the Python packages freetype to make labels, and tiff file to open the TIFFs.

Usage

Run in terminal or ipython session. The `-f` option is required followed by the path to your parameter .yaml file.

```
python ./mm3_MovieMaker.py -f /path/to/parameter/file.yaml
```

Options

- `-o "1,2,3"` : Only these FOVs. Use a list of numbers separated by commas to only process these FOVs.
- `-s "5"` : Start FOV. Put in a number to start processing at a certain FOV.

Parameters File

Fill out the parameters file normally, the most important thing is that you have the file and folder names right. Here are some things to be aware of:

- `seconds_per_time_index` : This is used for the labeling (not the actual time in the image metadata).
- `image_start` : Frame number (zero indexed) at which to start movie making.
- `image_end` : Same but for end frame to include.
- `fps` : frames per second of the movie.