
labvision

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Lab vision provides a range of tools to collect, manipulate and store images / video.

1.1 Installation

The project can be installed and maintained using pip

1.1.1 Initial Installation

```
pip install git+https://github.com/MikeSmithLabTeam/labvision
```

1.1.2 Update

```
pip install --upgrade git+https://github.com/MikeSmithLabTeam/labvision
```

1.2 Camera

Camera contains classes for controlling webcams through opencv and digital cameras via the linux tool gphoto2. The timer provides a simple way to perform timelapse imaging.

1.2.1 Camera

1.2.2 Camera Config

1.2.3 Digital Cameras

1.2.4 Quick Timer

1.3 Images

Images contains a host of methods for interacting with and manipulating images.

1.3.1 Basics

1.3.2 Contours

1.3.3 cropping

1.3.4 Draw

1.3.5 Feature Detection

1.3.6 Geometric

1.3.7 Gui

1.3.8 Gui Base

1.3.9 Morphological

1.3.10 Smoothing

1.3.11 Thresholding

1.4 Video

Video contains an implementation of OpenCV and FFMPEG to read and write videos. Shape

1.4.1 OpenCV Video

1.4.2 FFMPEG Video

1.4.3 Shape and Size

CHAPTER 2

Indices and tables

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