EEP71

Release 0.5

Dani Moeliker & Damian Verbeek

Oct 28, 2019

CONTENTS:

1 EEP71: GUI **3**
- 1.1 Dependencies & How to Install Them . . . 3
- 1.2 How to Run the Project . . . 3

2 EEP71: GUI Code (Autogenerated) **5**

3 Indices and tables **7**

Python Module Index **9**

Index **11**

EEP71 project for the Raspberry Pi GUI.

Dependencies —

opencv-python (cv2) PyQt5 (REQUIRES INSTALLATION OF QT FRAMEWORK AS WELL (SEE README))

CHAPTER

ONE

EEP71: GUI

1.1 Dependencies & How to Install Them

This readme section is written with primarily Linux in mind.

1. python-opencv Run `pip install opencv-python`. Works the same way for Windows users. If pip ran without error then you have successfully installed this dependency.

2. PyQt5 Run `pip install PyQt5` to install the PyQt5 library. This still requires you to install Qt5.

For Arch users run `sudo pacman -S qt5-base`.

For Ubuntu users see https://wiki.qt.io/Install_Qt_5_on_Ubuntu.

For Windows users see https://www.qt.io/download-open-source#section-2.

1.2 How to Run the Project

Assuming all dependencies were installed correctly all you have to do is run `python mainwindow.py` in your terminal emulator.

CHAPTER

TWO

EEP71: GUI CODE (AUTOGENERATED)

class mainwindow.**UI_Window**

nextFrameSlot()
Reads the next frame from the OpenCV camera object and outputs it to a QPixmap.

openCamera()
Opens the camera using OpenCV. This method works when only one camera is connected and will default to the first camera it can find.

stopCamera()
Stops the camera.

CHAPTER

THREE

INDICES AND TABLES

- genindex
- modindex
- search

PYTHON MODULE INDEX

m

mainwindow, 5

INDEX

M

mainwindow (*module*), 5

N

nextFrameSlot() (*mainwindow.UI_Window method*), 5

O

openCamera() (*mainwindow.UI_Window method*), 5

S

stopCamera() (*mainwindow.UI_Window method*), 5

U

UI_Window (*class in mainwindow*), 5