VoR12 Documentation

Release 0.2

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The Vor12 project, a mobile video camera created for object tracking experiments.

Contents:

CHAPTER 1

Introduction

The VoR12 project is a mobile video camera. It uses two Dynamixel AX-12 actuators and the OpenCV computer vision library for object tracking experiments.

- *Demos*
- *Dependencies*
- *Installation*
  - *Gnu/Linux*
  - *Windows*
  - *MacOSX*

Note: This project is still in *beta* stage, so the API is not finalized yet.

Demos

Dependencies

- Python 3.4
- OpenCV versions 3.0.0 or above
- PyAX-12
- NumPy

Note: If you use `pip` to install VoR12, PyAX-12 and Numpy will be automatically downloaded and installed (see the following *install* section).

OpenCV cannot be installed with `pip`, thus you have to install it manually.

Installation

Gnu/Linux

You can install, upgrade, uninstall VoR12 with these commands (in a terminal):

```
pip install --pre vor12
pip install --upgrade vor12
pip uninstall vor12
```

Or, if you have downloaded the VoR12 source code:

```
python3 setup.py install
```

Windows

You can install, upgrade, uninstall VoR12 with these commands (in a command prompt):

```
py -m pip install --pre vor12
py -m pip install --upgrade vor12
py -m pip uninstall vor12
```

Or, if you have downloaded the VoR12 source code:

```
py setup.py install
```

MacOSX

You can install, upgrade, uninstall VoR12 with these commands (in a terminal):

```
pip install --pre vor12
pip install --upgrade vor12
pip uninstall vor12
```

Or, if you have downloaded the VoR12 source code:

```
python3 setup.py install
```

CHAPTER 2

VoR12 API

VoR12 provides classes which are usable by third party tools.

Note: VoR12 is still in *beta* stage, so the API is not finalized yet.

Modules:

Packet module

Connection module

Packet module

CHAPTER 3

Developer's notes

Source code

The source code is currently available on GitHub under the terms and conditions of the *MIT license*. Fork away!

Bug reports

To search for bugs or report them, please use the VoR12 Bug Tracker at:

https://github.com/volab/vor12/issues

Contribute

VoR12 is written for Python versions 3.4 and above. Python 2.x is *not* supported.

The TODO.md file contains the TODO list.

All contributions should at least comply with the following PEPs:

- PEP8 "Python's good practices"
- PEP257 "Docstring Conventions"
- PEP287 "reStructuredText Docstring Format"

All contribution should be properly documented and tested with unittest and/or doctest.

pylint, pep8 and pyflakes should also be used to check the quality of each module.

Changes

- Web site: http://www.jdhp.org/projects_en.html#vor12
- Online documentation: http://vor12.readthedocs.org
- Source code: https://github.com/volab/vor12
- Issue tracker: https://github.com/volab/vor12/issues
- VoR12 on PyPI: https://pypi.python.org/pypi/vor12

In collaboration with http://www.vorobotics.com

CHAPTER 4

Indices and tables

- genindex
- modindex
- search

CHAPTER 5

Credits

Created by Jérémie Decock.

CHAPTER 6

License

The VoR12 library is provided under the terms and conditions of the MIT license:

The MIT License

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