User manual of RasPy

Release 0.0.1

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Installation

1.1 Raspbian

Install official raspbian from here : http://www.raspbian.org/.

Newbies can install it from : http://www.raspberrypi.org/downloads/.

Developpers or others can also install it on standard distributions (Ubuntu, Debian, RedHat, ...).

1.2 Update packages

You can now update packages

```
sudo apt-get -y update
sudo apt-get -y dist-upgrade
```

We need to install some packages to download and build RasPy:

```
sudo apt-get -y install build-essential python-dev python-minimal python python2.7-dev python2.7-r
```

Some packages need to be removed as new versions are available from eggs :

```
sudo apt-get remove python-zmq libzmq1 libzmq-dev python-nose pylint
```

1.3 Download it

You should now download RasPy using git. You should not download and install RasPy with root user. Idealy, you should create a special user for running RasPy or the pi user. Keep in mind root is baaaddddd.

```
git clone https://github.com/bibi21000/RasPy.git
```

1.4 Configure your system

- access rights
- sudo nopasswd
- ...

1.5 Installation

If you want to develop for RasPy, you need to install it in develop mode :

```
sudo make develop
```

Otherwise install it normaly ... but not now ;) :

```
sudo make install
```

And be patient ... installation need to compile zmq ... It takes a while ...

If something goes wrong during install or if you want to remove RasPy from you computer, you type :

```
sudo make uninstall
```

If you want to remove dependencies, look at setup.py to get the list and use the following command for every package:

```
sudo pip uninstall package
```

1.6 Run the tests

Check that the SLEEP constant in tests/common.py ist set to 1.0 or 1.5

```
vim tests/common.py
```

You can now check that everything is fine running the tests :

```
make tests
```

If it fails ... run it again :) At last, copy / paste the full screen output and send it to the core team.

1.7 Start it

In the next monthes, you should be abble to start it :

```
make start
```

1.8 Read the doc

- docs/pdf
- docs/html

Use it !!