# pyscreenshot Documentation

Release 0.2.1

ponty

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#### pyscreenshot

Date October 19, 2011

PDF pyscreenshot.pdf

#### Contents:

The pyscreenshot module can be used to copy the contents of the screen to a PIL image memory or file. Replacement for the ImageGrab Module, which works on Windows only.

#### Links:

- home: https://github.com/ponty/pyscreenshot
- documentation: http://ponty.github.com/pyscreenshot

#### **Features:**

- Crossplatform wrapper
- Capturing the whole desktop
- · Capturing an area
- saving to file or PIL image memory
- some backends are based on this discussion: http://stackoverflow.com/questions/69645/take-a-screenshot-via-a-python-script-linux
- Plugin based, it has wrappers for various backends:
  - scrot
  - ImageMagick
  - PyGTK
  - PIL (only on windows)
  - PyQt4
  - wxPython

#### **Known problems:**

- not implemented: Capturing an active window
- different backends generate slightly different images from the same desktop, this should be investigated
- ImageMagick creates blackbox on some systems
- PyGTK backend does not check \$DISPLAY -> not working with Xvfb
- slow: 0.2s 0.7s

#### Similar projects:

• http://sourceforge.net/projects/gtkshots/

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### **ONE**

## **USAGE**

### Example:

```
import pyscreenshot as ImageGrab

# fullscreen
im=ImageGrab.grab()
im.show()

# part of the screen
im=ImageGrab.grab(bbox=(10,10,500,500))
im.show()

# to file
ImageGrab.grab_to_file('im.png')
```

**TWO** 

## **INSTALLATION**

### 2.1 General

- install setuptools or pip
- install PIL
- install at least one backend
- install the program:

if you have setuptools installed:

```
# as root
easy_install pyscreenshot
```

#### if you have pip installed:

```
# as root
pip install pyscreenshot
```

### 2.2 Ubuntu

```
# one or more
sudo apt-get install scrot
sudo apt-get install imagemagick
sudo apt-get install python-gtk2
sudo apt-get install python-qt4
sudo apt-get install python-wxversion
# Python Imaging Library (required)
sudo apt-get install python-imaging
sudo apt-get install python-setuptools
sudo easy_install pyscreenshot
```

### 2.3 Uninstall

```
# as root
pip uninstall pyscreenshot
```

## **BACKEND PERFORMANCE**

```
/usr/lib/pymodules/python2.6/gtk-2.0/gtk/__init__.py:127: RuntimeWarning: PyOS_InputHook is not avail
 set_interactive(1)
n=10 , to_file: True , bounding box: None
                    2.2 sec
scrot.
imagemagick
                    7.1 sec
                    2.2 sec
pyqt
                    3.2 sec
pygtk
                    2.8 sec
pil
                    Forced backend not found, or cannot be loaded:pil
n=10 , to_file: False , bounding box: None
                   3.0 sec
scrot
                   6.8 sec
imagemagick
                    1.9 sec
pyqt
pygtk
                    3.2 sec
WX
                    0.5 sec
pil
                    Forced backend not found, or cannot be loaded:pil
n=10 , to_file: False , bounding box: (10, 10, 20, 20)
______
                   3.6 sec
imagemagick
                   3.0 sec
pyqt
                   2.4 sec
                    3.6 sec
pygtk
                    0.5 sec
WX
                    Forced backend not found, or cannot be loaded:pil
pil
Test system versions:
$ python -m pyscreenshot.check.versions
/usr/lib/pymodules/python2.6/gtk-2.0/gtk/__init__.py:127: RuntimeWarning: PyOS_InputHook is not avail
 set_interactive(1)
pyscreenshot
                    0.2.1
scrot
                    0.8
                    6.6.2
imagemagick
                    not implemented
pyqt
                    2.21.5
pygtk
                    2.8.11.0
WX
pil
                    missing
```

\$ python -m pyscreenshot.check.speedtest

## **COMMAND LINE HELP**

```
$ python -m pyscreenshot.examples.show --help
usage: show.py [-h] [--debug]
optional arguments:
  -h, --help show this help message and exit
             set logging level to DEBUG
$ python -m pyscreenshot.examples.showall --help
usage: showall.py [-h] [--debug]
optional arguments:
 -h, --help show this help message and exit
  --debug
             set logging level to DEBUG
$ python -m pyscreenshot.check.speedtest --help
usage: speedtest.py [-h] [--debug]
optional arguments:
 -h, --help show this help message and exit
           set logging level to DEBUG
$ python -m pyscreenshot.check.versions --help
usage: versions.py [-h] [--debug]
optional arguments:
 -h, --help show this help message and exit
          set logging level to DEBUG
```

### **FIVE**

## **API**

pyscreenshot.grab (bbox=None)
 Copy the contents of the screen to PIL image memory.

**Parameters** bbox – optional bounding box

pyscreenshot.grab\_to\_file (filename)

Copy the contents of the screen to a file.

Parameters filename – file for saving

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## **INDICES AND TABLES**

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