

MOVI on Raspberry PI with Python Quick Setup

Serial Port Setup

We're going to disable login via serial port and enable hardware serial port. At the prompt type the following command and follow the screen instructions. When done, quit raspi-config.

```
sudo raspi-config
```

```
Raspberry Pi Software Configuration Tool (raspi-config)

1 Change User Password Change password for the current user
2 Network Options      Configure network settings
3 Boot Options         Configure options for start-up
4 Localisation Options Set up language and regional settings to match your location
5 Interfacing Options  Configure connections to peripherals
6 Overclock            Configure overclocking for your Pi
7 Advanced Options    Configure advanced settings
8 Update               Update this tool to the latest version
9 About raspi-config  Information about this configuration tool

<Select> <Finish>
```

```
Raspberry Pi Software Configuration Tool (raspi-config)

P1 Camera  Enable/Disable connection to the Raspberry Pi Camera
P2 SSH     Enable/Disable remote command line access to your Pi using SSH
P3 VNC     Enable/Disable graphical remote access to your Pi using RealVNC
P4 SPI     Enable/Disable automatic loading of SPI kernel module
P5 I2C     Enable/Disable automatic loading of I2C kernel module
P6 Serial  Enable/Disable shell and kernel messages on the serial connection
P7 1-Wire Enable/Disable one-wire interface
P8 Remote GPIO Enable/Disable remote access to GPIO pins

<Select> <Back>
```

Would you like a login shell to be accessible over serial?

<Yes>

<No>

Would you like the serial port hardware to be enabled?

<Yes>

<No>

The serial login shell is disabled
The serial interface is enabled

<Ok>

Update packages and install pip3 and git

```
# Update kernel
sudo apt-get update
sudo apt-get dist-upgrade

# Install pip3
sudo apt-get install python3-pip

# Install git
sudo apt-get install git
```

Install MOVI python library and examples

```
# Install MOVI python library
sudo pip3 install movi

# Get the examples from github
git clone https://github.com/audeme/MOVIPIAPI.git
```

Run a Python example

```
cd MOVIPIAPI/examples
python3 HelloWorld.py
```