
Braibook Documentation

Release

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1	Contents	1
1.1	Setting up Braibook in the Raspberry Pi	1
1.2	Indices and tables	2

Contents

1.1 Setting up Braibook in the Raspberry Pi

1.1.1 Installing Raspbian

Installing Raspbian is very easy, and you can find a [complete guide at the official Raspberry Pi website](#).

1.1.2 Installing tools and dependencies

Once you have Raspbian installed, you will need to upgrade your system:

```
sudo apt-get update
sudo apt-get upgrade
```

Install liblouis dependencies:

```
sudo apt-get install autoconf libtool
```

Compile and install liblouis:

```
wget https://github.com/liblouis/liblouis/archive/v3.0.0.tar.gz
tar -zxvf v3.0.0.tar.gz
rm v3.0.0.tar.gz
cd liblouis-3.0.0
./autogen.sh
./configure
make
sudo make install
sudo ldconfig
cd
```

Test liblouis:

```
echo "Hello" | lou_translate unicode.dis,en-GB-g2.ctb
```

If everything went well, the output should look like .

Install dependencies to compile Python 3:

```
sudo apt-get install \
    build-essential \
    libncursesw5-dev \
```

```
libreadline-gplv2-dev \  
libssl-dev \  
libgdbm-dev \  
libc6-dev \  
libsqlite3-dev \  
tk-dev \  
libz-dev \  
libbz2-dev \  
liblzma-dev \  
libdb-dev
```

Compile Python 3.5:

```
wget https://www.python.org/ftp/python/3.5.2/Python-3.5.2.tgz  
tar -zxvf Python-3.5.1.tgz  
rm Python-3.5.1.tgz  
cd Python-3.5.1  
./configure  
make  
sudo make install  
cd
```

1.1.3 Setting up a virtual environment

Install virtualenvwrapper:

```
sudo pip install virtualenvwrapper  
echo "source /usr/local/bin/virtualenvwrapper.sh" >> ~/.bashrc  
source ~/.bashrc
```

Create a virtual environment:

```
mkvirtualenv -p python3.5 braibook  
workon braibook  
pip install gpiozero rpi.gpio
```

1.2 Indices and tables

- [genindex](#)
- [search](#)