

# Google Tensorflow on Raspberry Pi

by Stephen LEE in raspberry-pi

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2 Steps

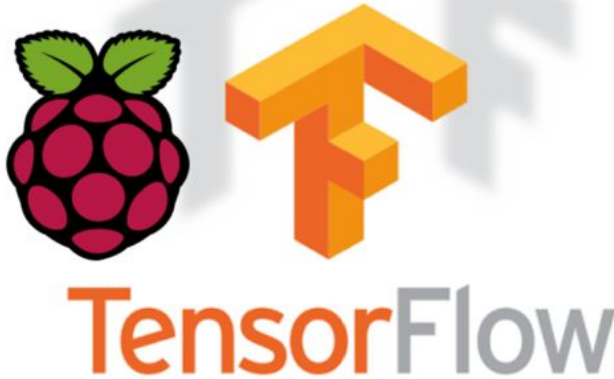
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## How To Install



### About TensorFlow

TensorFlow™ is an open source software library for numerical computation using data flow graphs. Nodes in the graph represent mathematical operations, while the graph edges represent the multidimensional data arrays (tensors) communicated between them.

## Step 1: Installation

This is an easy way to install TensorFlow on your Raspberry Pi. Note that currently, the pre-built binary is targeted for Raspberry Pi 3 running Raspbian 8.0 ("Jessie"), so this may or may not work for you. The specific OS release is the following:

```
sudo apt-get update
```

For Python 2.7

```
sudo apt-get install python-pip python-dev
```

For Python 3.3+

```
sudo apt-get install python3-pip python3-dev
```

Next, download the wheel file from this repository and install it:

For Python 2.7

```
wget https://github.com/samjabrahams/tensorflow-on-raspberry-pi/releases/download/v1.0.1/tensorflow-1.0.1-cp27-none-linux_armv7l.whl
```

```
sudo pip install tensorflow-1.0.1-cp27-none-linux_armv7l.whl
```

### For Python 3.4

```
wget https://github.com/samjabrahams/tensorflow-on-raspberry-pi/releases/download/v1.0.1/tensorflow-1.0.1-cp34-cp34m-linux_armv7l.whl
```

```
sudo pip3 install tensorflow-1.0.1-cp34-cp34m-linux_armv7l.whl
```

We need to reinstall the mock library to keep it from throwing an error when we import TensorFlow:

### For Python 2.7

```
sudo pip uninstall mock  
sudo pip install mock
```

### For Python 3.3+

```
sudo pip3 uninstall mock  
sudo pip3 install mock
```

## Step 2: Verifying

```
pi@raspberrypi:~ $ python3  
Python 3.4.2 (default, Oct 19 2014, 13:31:11)  
[GCC 4.9.1] on linux  
Type "help", "copyright", "credits" or "license" for more information.  
>>> import tensorflow as tf  
>>> hello = tf.constant("Hello, TensorFlow!")  
>>> sess = tf.Session()  
>>> print(sess.run(hello))  
b'Hello, TensorFlow!'  
>>>
```

Finally, we are going to test a simple program.

```
import tensorflow as tf  
  
hello = tf.constant("Hello, TensorFlow!")  
  
sess = tf.Session()  
  
print(sess.run(hello))
```

## Comments

**KevinD27**

Great tutorial ! Thank you !

**Stephen LEE** KevinD27

You are welcome!

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**PaulAtreides7201**

2017-08-30

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Great tutorial, just what I needed, thanks!

**Stephen LEE** PaulAtreides7201

2017-09-16

Reply

You are welcome. Enjoy with TensorFlow.

**ShubamG2**

2017-06-26

Reply

thank you so much

**Stephen LEE** ShubamG2

2017-06-27

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You are welcome!