

**COMPUTER SUBJECT:** TENSORFLOW and KERAS

**TYPE:** GROUP WORK

**IDENTIFICATION:** Tensorflow Installation/MICL

**COPYRIGHT:** *Michael Claudius*

**LEVEL:** EASY

**DURATION:** 10-20 minutes

**SIZE:** 10 clicks!!

**OBJECTIVE:** Installing Tensorflow and Keras

**REQUIREMENTS:** **Anaconda is installed**

**COMMANDS:**

## **IDENTIFICATION: Tensorflow Installation/MICL**

### The Mission

You are to install Tensorflow and Keras.

### Purpose

The purpose is to create an environment for Neural Network applications

### Installation of Tensorflow

There are several ways of skinning a cat and that's also the case when installing SW.

The web is filled up with mysterious suggestions using pip etc etc

Don't do that. You got Anaconda !

The one given here is fast and simple. It falls in 3 steps:

- Start Anaconda
- Choose the tensorflow tensorflow-dataset and keras package
- Import

And takes 5 minutes

### Useful links

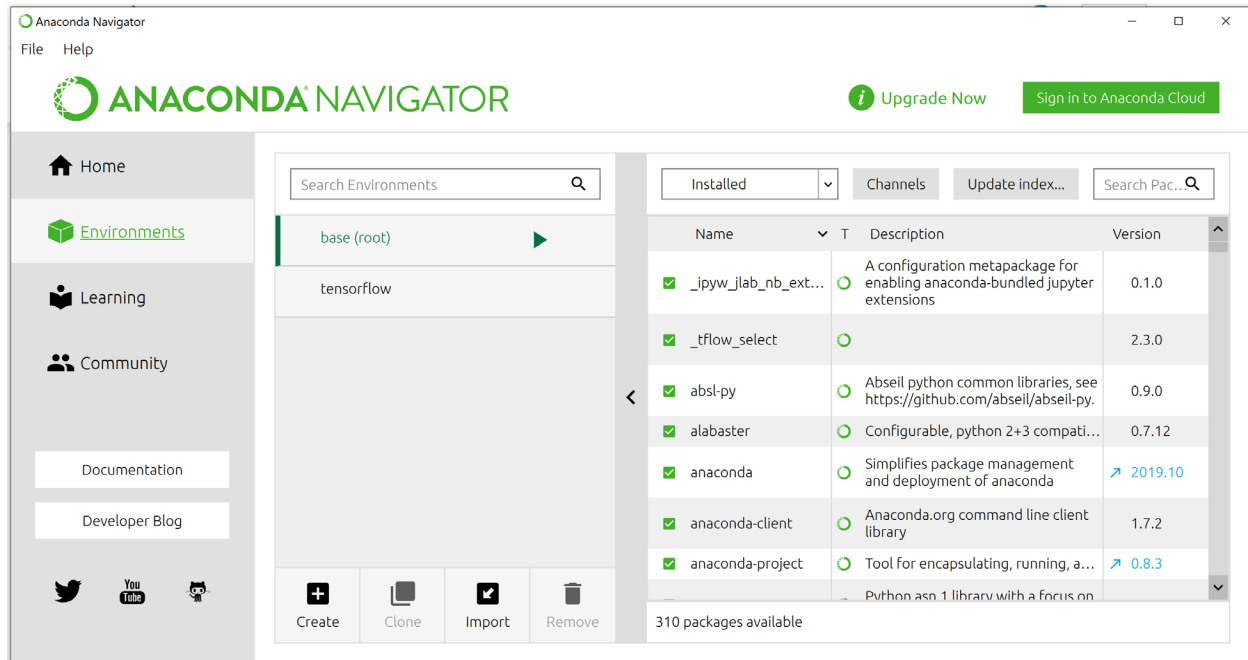
NONE

## Installation from Anaconda

Start Anaconda

Choose Anaconda Navigator

Click on Environments and you will see



There are 300+packages installed in base (root).

IF you were to work professional for months you would create a new working environment just for neural network. BUT we are not 😊

So we will install in base (root) where all our other programs are installed.

Click on installed bar and Choose Uninstalled

Then search for tensorflow

Tick 3 packages:

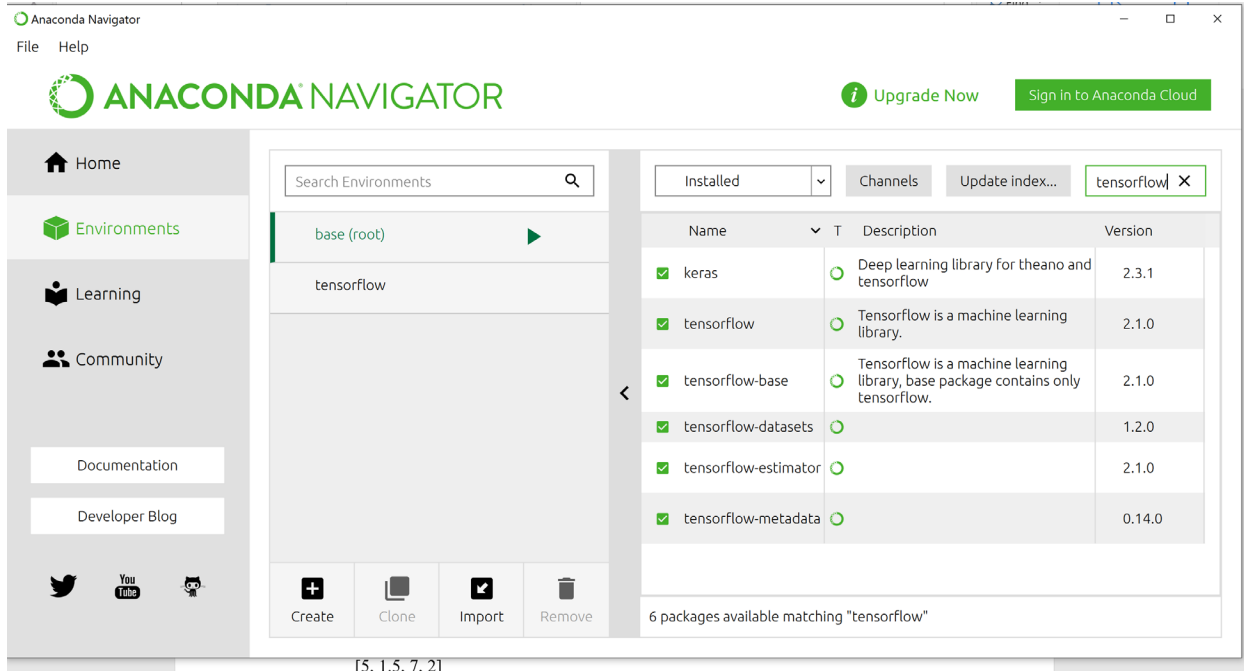
keras

tensorflow

tensorflow-dataset

Click Import

It takes some time, but finally you will see:



[5, 1.5, 7, 2]

**DONE**

*In the same way you can import pydot and graphviz, I didn't feel the need for that yet !*