Setup for Anaconda, Keras, and Tensorflow

Install [Anaconda](https://www.anaconda.com/download/)

When I first installed I followed this [tutorial](http://inmachineswetrust.com/posts/deep-learning-setup/), however Tensorflow is not compatible with python 3.7.X so use the command:

conda create -n ***deeplearning*** pip python=3.6

instead of the suggested command:

conda create --name deeplearning python

There were issues with the sequence of installation as well. It seems that the pattern should be as stated, however you should initially skip seaborn then after tensorflow and keras are installed, install matplotlib then seaborn. I think this is overly complicated so you could just install anaconda which comes with numpy, pandas, scipy, seaborn, scikit-learn…

That pattern would look like:

conda create -n deeplearning pip python=3.6

activate conda\_deeplearning

conda install anaconda

pip install –-upgrade tensorflow

pip install –-upgrade keras

This is simpler, but the anaconda installation will take a long time. Following the above tutorial took me about 8 hours to get a correct installation so this may save you time despite the anaconda installation. It’s also kind of nice because whatever code you write in your base environment will also work in deep learning, so this will just be a superset of your standard features. And of course, even this gave me errors, when I opened spyder. It gave me a bunch of junk in the console initially and refused to continue. If that doesn’t happen to you, awesome, if it does the fix is to go back to Anaconda prompt, activate your environment, then downgrade ipykernel with the command:

conda install ipykernel=4.8.2

To run the code from their study you need python 2.7 and theanos. Below should give you what you need:

conda create -n theano\_dl pip python=2.7

activate theano\_dl

conda install anaconda

conda install mkl nose sphinx pydot-ng

conda install theano

You may need to add an environment variable “MKL\_THREADING\_LAYER” with a value of “GNU”, if you don’t get errors, don’t bother.

Whatever method you used to install keras and tensor flow, you will be able to access your deeplearning installation by opening Anaconda Prompt, running the command “activate {your deep learning environment name}” then “spyder” or “jupyter notebook” to open the respective IDE’s.

To delete an environment:

conda remove --name {envname} --all