Install Keras

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Software requirements:

- TensorFlow
- Python 3

Instructions

1. Create a new conda environment.
   - `conda create -n keras python=3.5`
   - `source activate keras`

2. Install TensorFlow.
   - `conda install -c conda-forge tensorflow`
   - If you want to use the GPU version, follow the instructions **here (https://www.tensorflow.org/versions/r0.11/get_started/os_setup.html#using-pip)**

3. Install Jupyter.
   - `conda install jupyter`

4. Install Keras. You only need the latest stable version.
   - `pip install keras`
   - You might need to `pip[3] install`:
     - `h5py`
     - `scipy`
     - `scikit-learn`
     - `Pillow`

5. Behind-the-scenes, Keras uses either **TensorFlow (https://www.tensorflow.org/)**, or an alternative deep learning library called **Theano (http://deeplearning.net/software/theano/)**.

By default, Keras uses TensorFlow. If you encounter a backend problem, however, you can explicitly configure Keras to use TensorFlow by creating `~/.keras/keras.json` in your home directory.

```
{                                       Install Keras
    "image_dim_ordering": "tf",
    "epsilon": 1e-07,
    "backend": "tensorflow",
    "floatx": "float32"
}
```

1. Test
   - `python` (should open python 3.5)
   - `import keras` (should say "Using TensorFlow backend" without any errors)

2. Celebrate!

NEXT