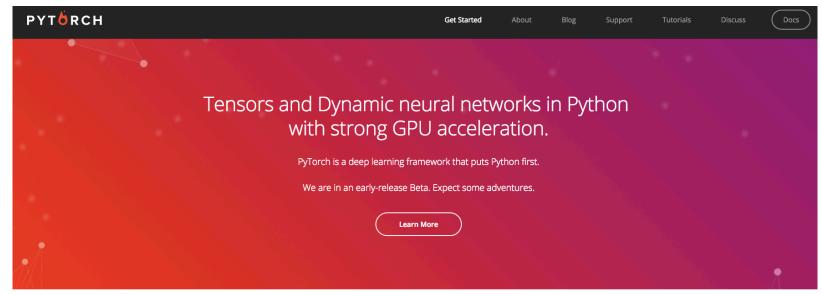
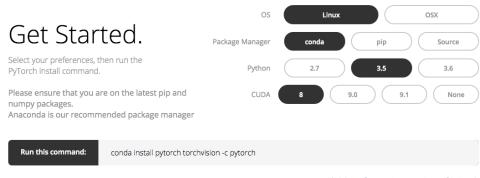
Install PyTorch

Follow the instructions: http://pytorch.org/





Run PyTorch

- Interactive
- Non-interactive (Highly recommended on Cluster)
- Jupyter Notebook (Highly recommended on your own computer)

Run PyTorch - Interactive

Interactive:

```
macbain:~ meiguang$ which python
/Users/meiguang/anaconda2/bin/python
macbain:~ meiguang$ python
Python 2.7.12 |Anaconda custom (x86_64)| (default, Jul 2 2016, 17:43:17)
[GCC 4.2.1 (Based on Apple Inc. build 5658) (LLVM build 2336.11.00)] on darwin
Type "help", "copyright", "credits" or "license" for more information.
Anaconda is brought to you by Continuum Analytics.
Please check out: http://continuum.io/thanks and https://anaconda.org
>>> import torch
```

Run PyTorch – Non-interactive

Non-interactive:

Create a ".py" file named "test.py"

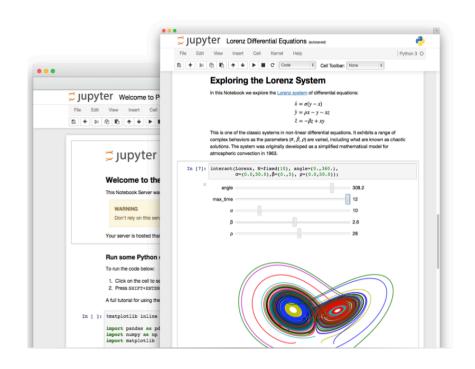
```
1 import torch
2 # Create a tensor
3 x = torch.randn(5, 3)
4 # Print out the x
5 print(x)
```

• Run "python test.py" in the terminal

```
macbain:tutorial01 meiguang$ python test.py

0.4214 -0.7910 -2.2028
1.0870 -0.4494 -0.4044
-0.7091 0.9993 -0.2408
-0.3165 1.4342 0.0584
0.5433 0.5036 -0.3561
[torch.FloatTensor of size 5x3]
```

Install Jupyter Notebook





The Jupyter Notebook

The Jupyter Notebook is a web application that allows you to create and share documents that contain live code, equations, visualizations and explanatory text. Uses include: data cleaning and transformation, numerical simulation, statistical modeling, machine learning and much more.

- http://jupyter.org/install.html
- Prerequisite: Python
- Just need to install Anaconda which contains Python and Jupyter Notebook.
- After installation, run "jupyter notebook" in the terminal.

Run PyTorch - Jupyter Notebook

Run PyTorch in Jupyter Notebook:

```
from future import print function
import torch
Construct a 5x3 matrix, uninitialized:
x = torch.Tensor(5, 3)
print(x)
1.00000e-31 *
  0.0000 0.0000 0.0000
 0.0000 2.2341 0.0000
  0.0001 0.0000 0.0000
 0.0000 0.0000 0.0000
  0.0000 0.0000 0.0001
[torch.FloatTensor of size 5x3]
Construct a randomly initialized matrix:
x = torch.rand(5, 3)
print(x)
 0.9008 0.1295 0.7405
 0.0922 0.3206 0.4564
 0.5803 0.7283 0.6102
 0.9511 0.0322 0.3803
 0.5215 0.3466 0.2081
[torch.FloatTensor of size 5x3]
Get its size:
print(x.size())
torch.Size([5, 3])
```

PyTorch Resources

- http://pytorch.org/tutorials/
- https://github.com/yunjey/pytorch-tutorial
- http://cs231n.stanford.edu/