

Deep Learning

Practice 1 – Introduction

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Pytorch

- A Deep Learning framework (sponsored by Facebook)
 - Numpy-style tensor computation with GPU acceleration
 - Auto-differentiation with dynamic graph construction
 - Python API
 - Fast, flexible, easy to learn and implement!
- <https://pytorch.org/>

Dynamic Graph

A graph is created on the fly

```
x = torch.randn(1, 10)
prev_h = torch.randn(1, 20)
W_h = torch.randn(20, 20)
W_x = torch.randn(20, 10)
```



Installation

For python 2.7 and CUDA 9.0

- pip install torch torchvision

Documentation and tutorials

- <https://pytorch.org/docs>
- <https://pytorch.org/tutorials/>