# Lab 06. Deep Learning

Introduction to Computer Vision, Lab 06.

# Today

- **Introduction to Pytorch**
- **Recognition**
- **Image classification**

# Introdution to Pytorch

- Please refer to slides from 2021 cs231n Lecture 06.

# Recognition

- Install (Refer to [https://docs.qq.com/slide/DR0FnSGpxSkp4bGhv](https://docs.qq.com/slide/DR0FnSGpxSkp4bGhv))
- MMDetection
  - Running the demo
  - Use your image
  - Use your image with another model provided by this toolbox

# Image classification

- Downloading the dataset might need proxy (the dataset is from [https://www.cs.toronto.edu/~kriz/cifar.html](https://www.cs.toronto.edu/~kriz/cifar.html) python version).
- We will show you an example of training a fully- connected network on cifar-10.

- Todo:
  - Build a CNN, train it and test it.
  - Add BN to the model, train it and test it.

# Submission

- Please only submit the two jupyter notebooks.
- Do not submit any checkpoints or datasets!

# Questions?