

YOLO5 설치 및 실행

```
c:
cd \ai

# update
conda update -yn base -c defaults conda
```

#가상환경 설정

```
conda create -n yolov5 git
```

(방법 1)

```
git clone https://github.com/ultralytics/yolov5.git
cd yolov5
conda activate yolov5

# install Lib for YOLOv5
conda install -c anaconda cython numpy pillow scipy seaborn pandas requests
conda install -c conda-forge matplotlib pyyaml tensorboard tqdm opencv

# install pytorch
conda install pytorch torchvision torchaudio cudatoolkit=10.2 -c pytorch

# Extra
conda install -c conda-forge onnx
```

(방법 2)

```
http://ailab.silla.ac.kr/lec/pipaai/yoylov5.zip 다운로드 받아서 실행
```

학습

```
python train.py --img 640 --batch 4 --epochs 5 --data data/coco128.yaml --cfg  
models/yolov5s.yaml --weights yolov5s.pt
```

실행

```
(1) python detect.py --source ./inference/images/ --weights yolov5s.pt --conf 0.4  
(2) python detect.py --source ./inference/images/  
--weights runs/train/exp31/weights/best.pt --conf 0.1
```