



# ThaiSC YOLO

```
ssh sruangta@tara.nstda.or.th
```

## Install Mini Conda

```
# load miniconda install.sh
wget https://repo.anaconda.com/miniconda/Miniconda3-py38_4.11.0-Linux-x86_64.sh
# run
bash Miniconda3-py38_4.11.0-Linux-x86_64.sh
# reset pc
source ~/.bashrc
```

```
Do you accept the license terms? yes
Miniconda3 will now be installed into this location: [/home/userxx/miniconda3] >>> <ENTER>
* Do you wish the installer to initialize Miniconda3 by running conda init? [yes|no] yes
(or ./miniconda3/bin/conda init )
```

```
wget https://raw.githubusercontent.com/huak95/yolo-thaisc/main/torch_harry_env.yml
conda env create --file torch_harry_env.yml
```

## sinfo

```
sinteract --reservation=thaiscxx
sinteract -p dgx-preempt
```

# Load Data

```
# Python 3.8.12
git clone https://github.com/alphapum/data_train_yolo.git
```

# Install YoLo

```
git clone https://github.com/ultralytics/yolov5.git

# load pretrain weight
wget https://github.com/ultralytics/yolov5/releases/download/v6.1/yolov5s.pt
```

```
#SBATCH --nodelist=tara-dgx1-003
```

# Training YoLo batch scripth

```
#!/bin/bash
#SBATCH -p dgx-preempt
#SBATCH -N 1 --ntasks-per-node=1
#SBATCH -t 01:00:00
#SBATCH -A proj0174
#SBATCH --reservation=thaisc_88
#SBATCH -J harry-YoLov5-Demo-non-evo

# module --ignore-cache load "python"
module load CUDA/11.1.1-GCC-10.2.0

nvidia-smi

TRAIN_PATH="/tarafs/data/home/sruangta/harry-YoLo/yolov5/train.py"
DATA_PATH="/tarafs/data/home/sruangta/harry-YoLo/data_train_yolo/Data.yaml"
WEIGHT="/tarafs/data/home/sruangta/harry-YoLo/weight/yolov5s.pt"
AUG_PATH="/tarafs/data/home/sruangta/harry-YoLo/yolov5/data/hyps/hyp.scratch-med.yaml"

~/miniconda3/envs/torch/bin/python $TRAIN_PATH \
  --img 416 \
  --batch 64 \
  --epochs 200 \
  --data $DATA_PATH \
  --weights $WEIGHT \
  --cache \
```

```
--patience 30 \  
--hyp $AUG_PATH \
```

Credit by :

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