

## Hyperparameters

Parameter	Meaning
low-dim	categories
lr	Learning rate
b	Batch size
model	Network name
Instance	Run title
fixmatch	Whether to use Fixmatch
threshold	Threshold for pseudo labels
T	temperature
r	Checkpoint name
test-only	Whether to run inference only
uda	Whether to use UDA
ensemble	Whether to run Ensemble inference

### Example for training using FixMatch

```
train.py --low-dim 10 --lr 1e-4 --b 64 --model vgg19 --instance NAME --fixmatch True --threshold 0.95 --T 0.5
```

### Example for training using UDA

```
train.py --low-dim 10 --lr 1e-4 --b 64 --model vgg19 --NAME --uda True
```

### Example for training Supervised only

```
train.py --low-dim 10 --lr 1e-4 --b 64 --model vgg19 --NAME
```

### Example for inference

```
train.py --low-dim 10 --lr 1e-4 --b 64 --model vgg16 --instance NAME -r NAME.t7 --test-only
```

### Example for Ensemble inference

```
python3 train.py --low-dim 10 --lr 1e-4 --b 64 --model vgg19,vgg16 --instance ensemble -r NAME.t7,NAME2.t7 --test-only --ensemble True
```