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# 1 Preparing Data

# Resize images original images

```
python3 tools/process.py --input_dir photos/original --operation resize --  
output_dir photos/original_resized
```

# 1.2 Preparing Data

# Resize landmark images

```
python3 tools/process.py --input_dir photos/landmarks --operation resize  
--output_dir photos/landmarks_resized
```

# 1.3 Preparing Data

# Combine images

```
python3 tools/process.py --input_dir photos/landmarks_resized --b_dir  
photos/original_resized --operation combine --output_dir photos/combined
```

# 1.4 Preparing Data

# Split dataset into train/val set to be used for training and testing

```
python tools/split.py --dir photos/combined
```

# 2 Training

# Train the model

```
python3 pix2pix.py --mode train --output_dir portraits-model --  
max_epochs 600 --input_dir training-data-combined/ --which_direction AtoB  
--batch_size 8
```

# Testing

# Test images

```
python3 pix2pix.py --mode test --output_dir ../  
portraits_facials_test_results_512 --input_dir ../videolImages/test --  
checkpoint portraits-model
```

# Exporting

# Exporting the model checkpoint to be used online as pre-trained bin file

```
python3 server/tools/export-checkpoint.py --checkpoint portraits-model --  
output_file ../static_models/portraits_model_512_AtoB.bin
```