

Homework: Image Segmentation

Task 1: Run code from Github

- 1. Clone repository from https://github.com/bonlime/keras-deeplab-v3-plus/blob/master/README.md
- 2. Run the code mentioned in README, get the same result!
 - You will need to install "opency" and updated "keras"



Task 2: Train the same model yourself

- 1. Based on task 1
- 2. Download "training/validation" data from http://host.robots.ox.ac.uk/pascal/VOC/voc2012/#data
- 3. Use "JPEGImages" as input, "SegmentationClass" as targets
- 4. Rescale all images to max 64 pixels, add padding
 - You have this code already!
- 5. Train a model (CPU is fine)
- 6. Compute and prind prediction, check that it makes sense



Task 2: Train the same model yourself

Some helpful code for training model:

```
deeplab_model = Deeplabv3(input_shape=(64,64,3), classes=20)
deeplab_model.compile(optimizer='rmsprop', loss='mean_absolute_error')
deeplab_model.fit(data, labels, epochs=3, batch_size=10)
```

