

# Semantic Segmentation Supplement Document

The additional files that users need to download contain two folders: *mit\_semseg* and *source*.

## Folder of *mit\_semseg*:

To use semantic segmentation based on HRNet for building, please download the *mit\_semseg* folder from [CSAILVision/semantic-segmentation-pytorch: Pytorch implementation for Semantic Segmentation/Scene Parsing on MIT ADE20K dataset \(github.com\)](https://github.com/CSAILVision/semantic-segmentation-pytorch), and then put the folder in the same directory of the code files.

The folder of *mit\_semseg* contains the following files:

mit_semseg	2022/2/28 23:38	
source	2022/2/28 23:38	
building_decomposition.py	2022/1/19 0:12	
building_modelfit.py	2022/1/16 17:45	
building_obj.py	2022/2/7 21:30	
building_polygon.py	2021/11/26 0:51	
building_refinement.py	2022/1/16 14:29	
hrnet_seg.py	2022/1/20 23:47	
SAT2LoD2.py	2022/2/7 21:30	

  

config	2022/2/28 23:38
lib	2022/2/28 23:38
models	2022/2/28 23:38
_init_.py	2020/10/31 5:35
dataset.py	2021/8/19 22:54
utils.py	2020/10/31 5:35

## Folder of *source*:

The *Source* folder contains the HRNet model files and the prediction setting files. For *HRNet weight files*, please download them from OneDrive: [SAT2LoD2 - OneDrive \(sharepoint.com\)](https://sharepoint.com), or Google Drive: [hrnet\\_weight.zip - Google](https://drive.google.com). And then unzip them to the folder of *source/hrnet/*. The source folder without HRNet weight can be downloaded on GitHub page.

mit semseg	2022/2/28 23:38	
source	2022/2/28 23:38	
building_decomposition.py	2022/1/19 0:12	
building_modelfit.py	2022/1/16 17:45	
building_obj.py	2022/2/7 21:30	
building_polygon.py	2021/11/26 0:51	
building_refinement.py	2022/1/16 14:29	
hrnet_seg.py	2022/1/20 23:47	
SAT2LoD2.py	2022/2/7 21:30	

  

hrnet	2022/2/28 23:38
bmask.png	2020/8/13 11:24
dsm.tif	2020/2/11 15:24
ortho.tfw	2020/2/11 15:30
ortho.tif	2020/2/11 15:25
street1.shp	2020/2/11 15:05

  

patch	2022/2/27 12:25
result	2022/2/27 12:25
ade20k-mobilenetv2-building.yaml	2021/10/10 21:08
decoder_epoch_30.pth	2022/1/24 19:34
encoder_epoch_30.pth	2022/1/24 19:34
history_epoch_30.pth	2022/1/24 19:34
testing.odgt	2022/1/24 20:40

Moreover, one easy way is to copy the *source* folder from the software folder (*SAT2LoD2\_CU10/source/*, OneDrive: [SAT2LoD2 - OneDrive \(sharepoint.com\)](https://sharepoint.com), Google Drive: [SAT2LoD2\\_CU10.zip - Google](https://drive.google.com))