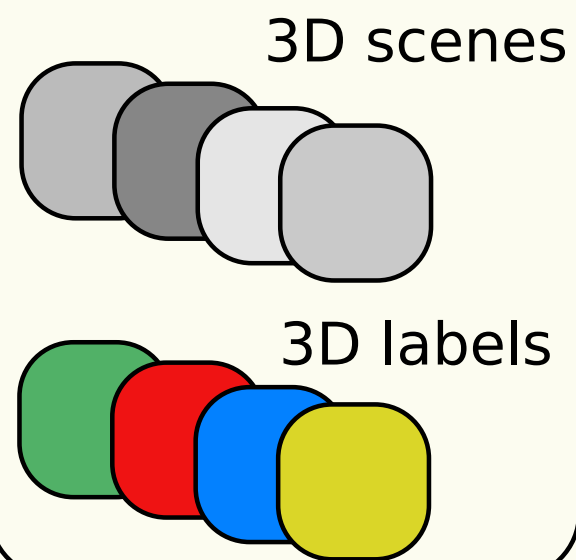


Source Training phase

Seg_3D_by_PC2D

Source Dataset



Generate
PC2D datasets

Intensity

Intensity PC2D
dataset $(X, Y)_M$

Depth

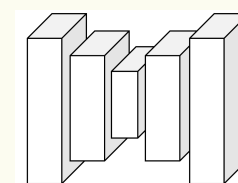
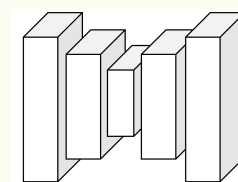
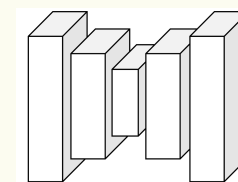
Depth PC2D
dataset $(X, Y)_M$

Normals

Normals PC2D
dataset $(X, Y)_M$

Train

2D segmentation
models



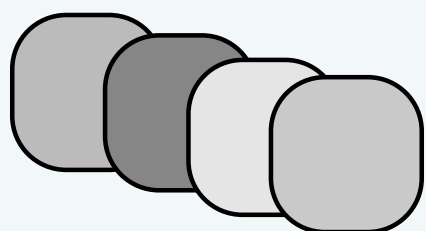
Ensemble of
models



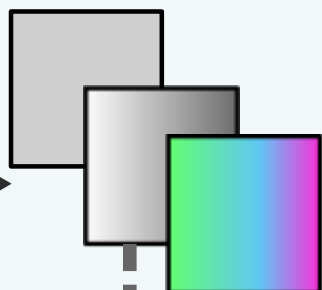
Pseudo-Label Generation phase

Target Dataset

3D scenes



Rendered views
for each modality



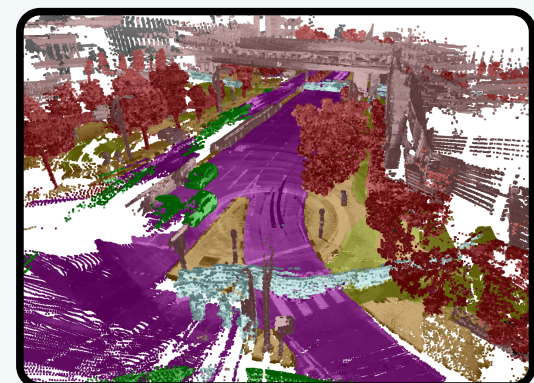
Infer

Ensemble of
models



2D
predictions

Back-Project
2D logits
then vote

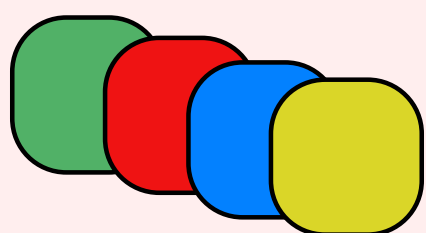


3D Pseudo-Labels

Use depth map
for occlusion

Train Final 3D Model

3D pseudo
labels



Train



3D Segmentation Model
pretrained on Source



= 3D dense point cloud



= 3D semantic segmentation mask



= Rendered view of a 3D pointcloud
(2D RGB/greyscale image)



= Frozen weights