

## Single Image 3D Reconstruction

Classical and deep-learning based approaches for single image 3D reconstruction

- Pix3D Dataset: <http://pix3d.csail.mit.edu/>
- NYU Depth Dataset (Silberman et al., Indoor Segmentation and Support Inference from RGBD Images, ECCV 2012)
- Have a look on classical approaches (depth from structure, ...)
- Test/implement classical approaches
- Train a deep learning network for that task, e.g. "Eigen et al. Depth Map Prediction from a Single Image using a Multi-Scale Deep Network. NIPS, 2014"
- Test your implementations on the above mentioned datasets