Github Link: <https://github.com/autonomousvision/differentiable_volumetric_rendering>

About:

In this repository, the model is trined on the ShapeNet dataset.

The shapeNet dataset has images of approximately 50 objects and has the 3d objects for the respective objects.

The model outputs 3d objects given an input image.

Restrictions on input image: There should be only a single object in the input image, should not have many disturbances, (model only gives good results on plain background images)

Also the model is not able to generate a good output for objects which are not included in the ShapeNet dataset.