Multiview Aggregation for Learning Category-Specific Shape Reconstruction

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3D Object Shape Reconstruction
Reconstructing 3D object shape from one or more views is an important problem.

Goals & Challenges
We want to learn to predict the 3D shape of objects belonging to specific categories from one or more images.

Normalized Object Coordinate Space (NOCS)
Wang et al. CVPR 2019

X-NOCS Maps
Compact hidden surface representation
Exact 2D-3D correspondence

Flexible Multiview Aggregation

Network Architecture

Results & Comparisons

Datasets & Code
ShapeNetCOCO
ShapeNetPlain

Datasets and code available for download!

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