Color 3D Printing Instructions

This PLY file contains a 3D model with embedded vertex colors.

For Full-Color Printing Services

Recommended services: Shapeways, Sculpteo, Xometry, i.materialise

Steps:

1. **Convert PLY to VRML format** (most services require this):
   - Download MeshLab (free)
   - File → Import Mesh → select the `.ply` file
   - File → Export Mesh As → save as `.wrl` (VRML 2.0)

2. **Upload to printing service**
   - Select "Full Color Sandstone" or "Multicolor" material
   - Scale the model to desired size (it may import very small)

3. **Order print**

For In-House FDM Printers

Standard FDM printers cannot print vertex colors directly. Options:

- **Multi-filament printer** (Bambu AMS, Prusa MMU): Manually assign color regions in slicer

- **Single color printer**: Print in white/gray, then hand-paint using the on-screen preview as reference

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Quick Troubleshooting

Problem	Solution
Colors not visible in MeshLab	Render → Color → Per Vertex
Service says "no color data"	Export as VRML (.wrl) instead of OBJ
Model too small	Scale up in slicer or MeshLab
Colors look faded	Normal for vertex colors; original preview has richer color