

Human Rubrics for 3D Mesh Evaluation

This document presents the human evaluation rubrics used to guide annotators in labeling 3D mesh assets with respect to Geometry and Prompt Adherence. It is part of our submission to KDD 2026 D&B Track, titled *DB-3DME: From Dataset to Benchmark for Human-Aligned Automatic 3D Mesh Evaluation*.

Geometry Rating Guidance

We are rating how this model looks in general taking a small account of the prompt.

Models with a **rating of 1** has two or more characteristics:

- Missing significant chunk of geometry
- A lot of noticeable floating artifacts
- Instead of hard/smooth surfaces, it has a lot of “lumpy” parts
- Cannot define the object
- Does not display any level of details ex
- Too low geometry

Models with a **rating of 2** has two or more characteristics:

- Model has some sort of structure sense
- 1 or 2 minor artifacts
- Minor inconsistencies with edges
- Missing minor geometry

Models with a **rating of 3** has two or more characteristics:

- Model structure makes sense
- The silhouette of the model is really strong
- “Game ready asset” It is good enough for roblox developers to be put in a game
- Minor or no artifact
- Bevel edges
- Detailed parts/features of the model is prominent
- No missing geometry

Prompt Adherence Rating Guidance

We are rating how this model accurately depicts the prompt.

Note: adjectives that describe the state of the object like “rusty” or “cracked glass” should **NOT** be taken into account because those are textured attributes, not mesh based. However, “stylized” and “cartoon” are excluded, those can be modeled.

Models with a **rating of 1** has 2 or more characteristics:

- Looks nothing like the prompt
- A bunch of floating artifacts
- Missing details/features from the prompt
- Model shows no stylized and cartoon characteristics
- Lack of geometry, primitive geometry

Models with a **rating of 2** has 2 or more characteristics:

- Model somewhat matches the prompt
- Contain artifacts or holes
- Messy edges/bevels
- Has key features of a model
- Missing 1 or 2 features from prompt

Models with a **rating of 3** has 2 or more characteristics:

- Model matches the prompt
- All parts are connected
- Has a lot of key features
- Barely any or no artifacts
- Clean edges and hard surface model