

VLA Failure Taxonomy

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graph TD; Root[VLA Failure Taxonomy] --> I[I. Manipulation]; Root --> II[II. Planing and Reasoning]; Root --> III[III. Motion]; I --> I1[Grasping Synthesis]; I --> I2[Grasping Stability]; I --> I3[Placement and Release]; II --> II1[Incomplete Task Execution]; II --> II2[Incorrect Action Sequence]; III --> III1[Collision]; III --> III2[Trajectory Sub-optimality]; III --> III3[Control Instability];
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I. Manipulation

Grasping Synthesis

Grasping Stability

Placement and
Release

II. Planing and Reasoning

Incomplete Task
Execution

Incorrect Action
Sequence

III. Motion

Collision

Trajectory
Sub-optimality

Control Instability