

Stage 1 Tutorial-to-Skill

Tutorial Material

HTML + images / screenshots / video



wikiHow

Google



Ubuntu documentation



VLM Skill Extractor



Structured Skills

Skill Write

Stage 2 Skill-Conditioned Agent Loop



Current Skills

Skill-Conditioned Agent



Observation

Action

Environment



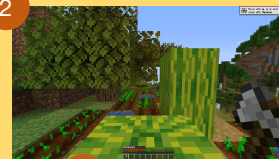
Stage 3 Skill Revision

Agent-Visible Trajectory

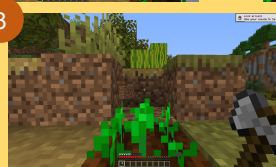
1



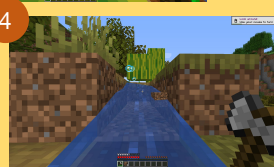
2



3



4



Prior RCAs

Optional

Root-Cause Analysis

What Worked / Issues / Causes



Current Skills



Reviser Refiner

Refined Skills

Shared Skill Cache

Procedural Steps · Visual Cues · Expected States



skill: install_miniconda_ubuntu



skill: craft_wooden_pickaxe



skill: evaluate-doudizhu-hand



skill: pick-up-water-kettle



skill: pick-up-water-kettle (refined)

skill refined