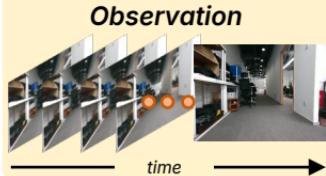


VLingNav Architecture

Multi-task Instruction

- ✓ Object Goal Navigation
- ✓ Embodied Visual Tracking
- ✓ Image Goal Navigation

Observation



VLingNav

AdaCoT

...
or
...
<think_on>
<think>...</think>
<summary>...</summary>

VLingMem

- 1st memory
- 2nd memory
- 3rd memory

Action Model

Robot trajectory

Training Recipe

Stage 1 Pre-train



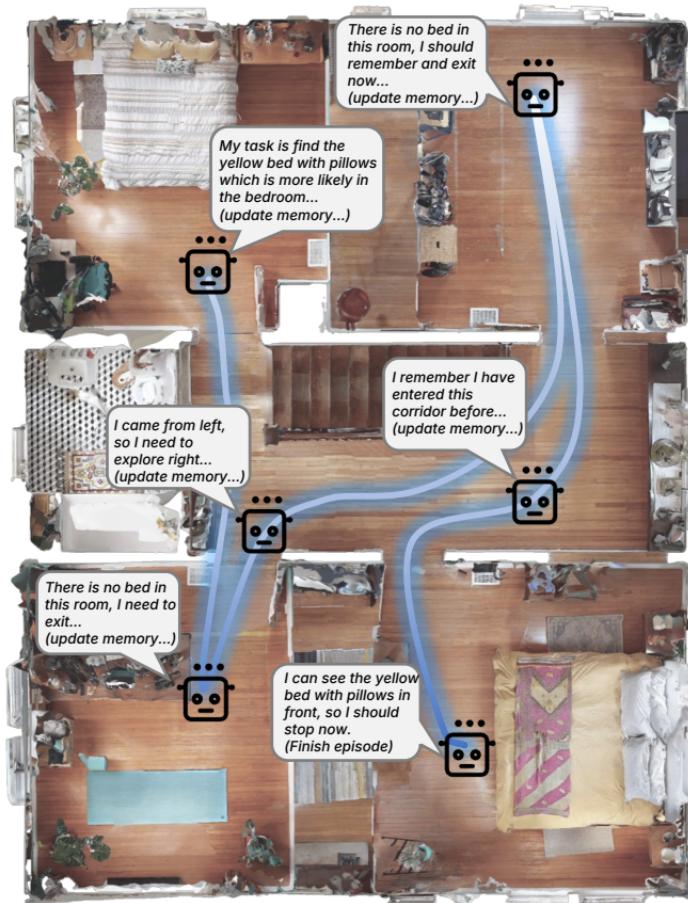
Stage 2 SFT



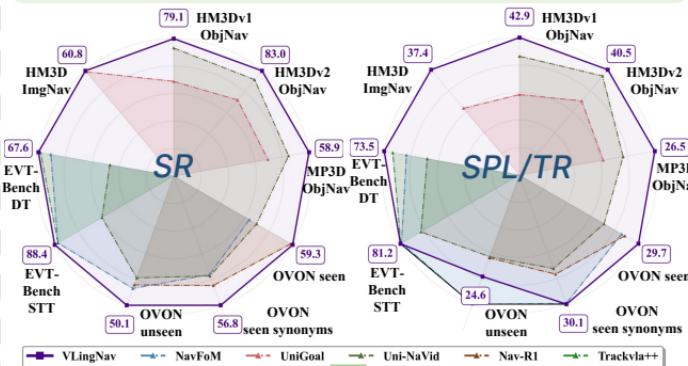
Stage 3 Online RL



Navigation Visualization



Benchmark Performance



Real-world Deployment



Find the washing machine



Follow the man in red and light gray



VQA data

Offline Nav&VQA data

Online Nav data

Search for the <image_goal>

Track the man on the bike