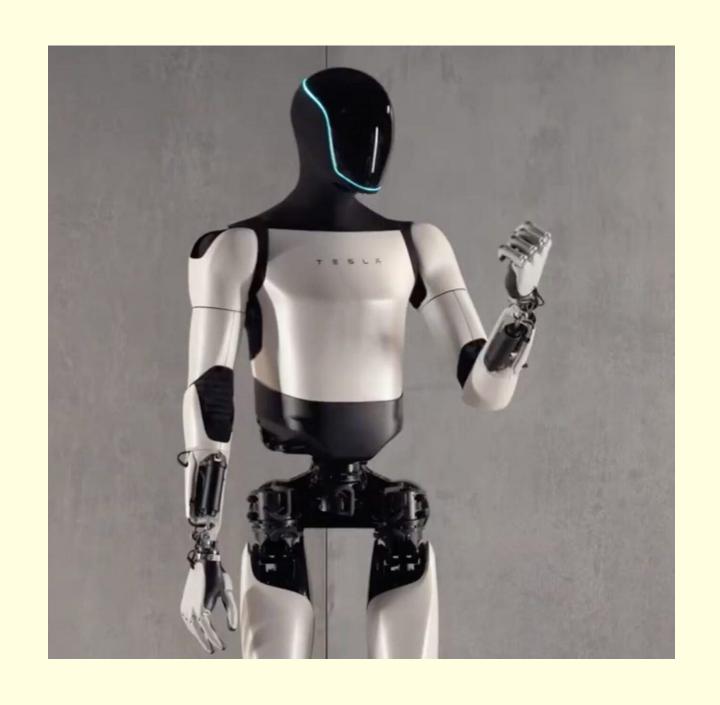
universal manipulation interface

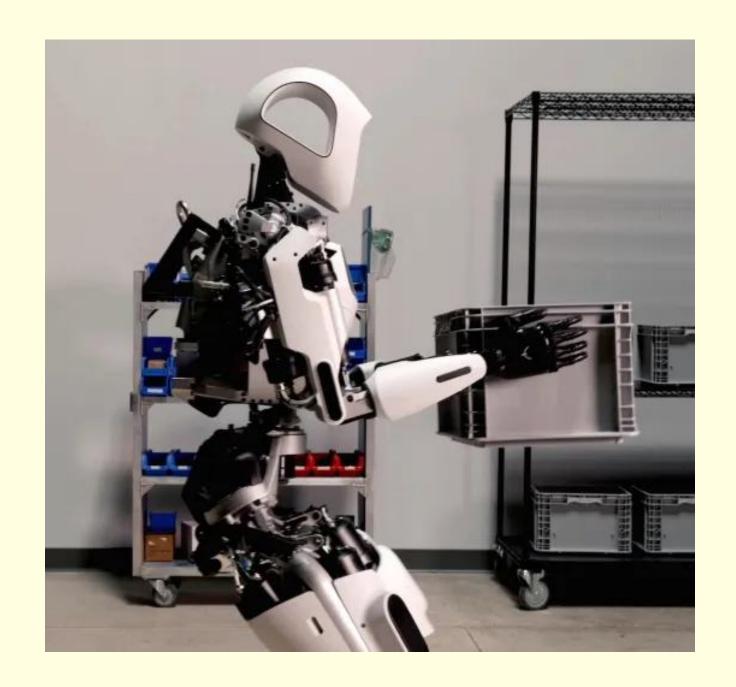
humanoid collective vol 1

Whatis humanoid collective /

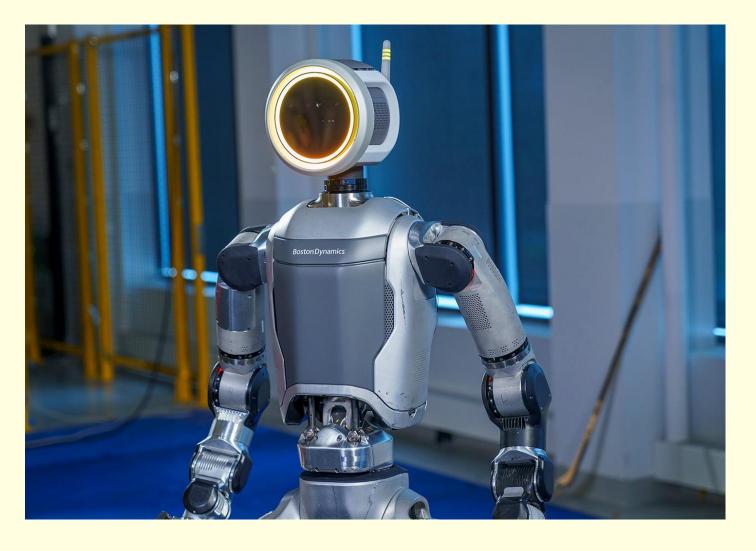










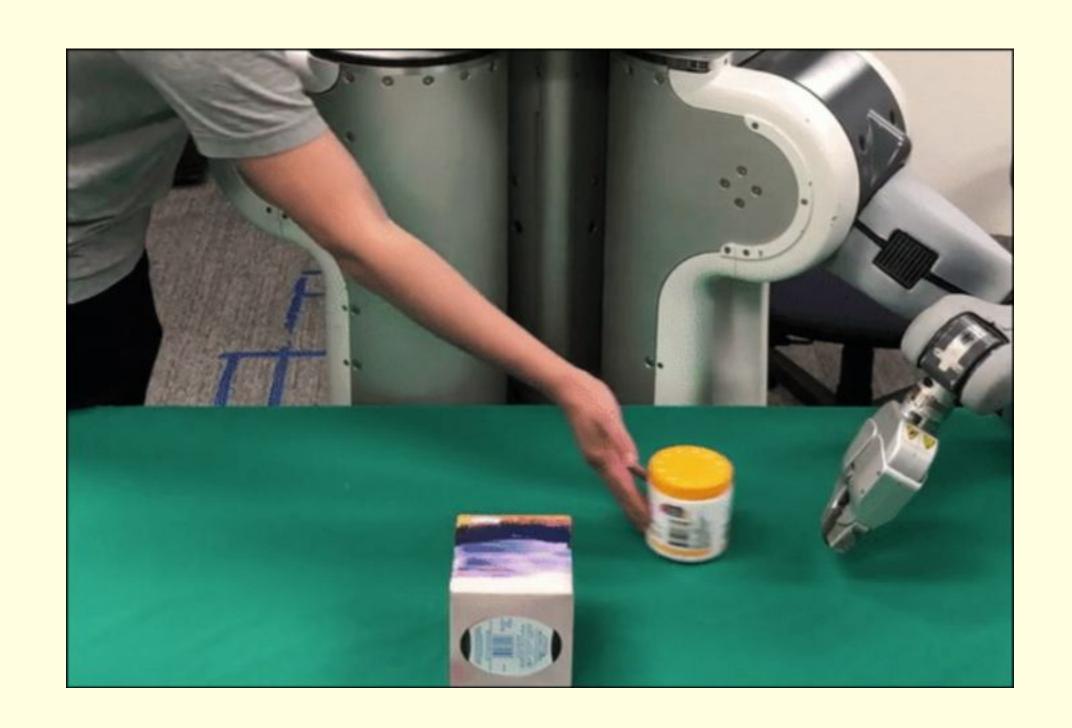




- weekly paper reading group
- reproduce and expand on research
- build some hardware

how do robots learn?

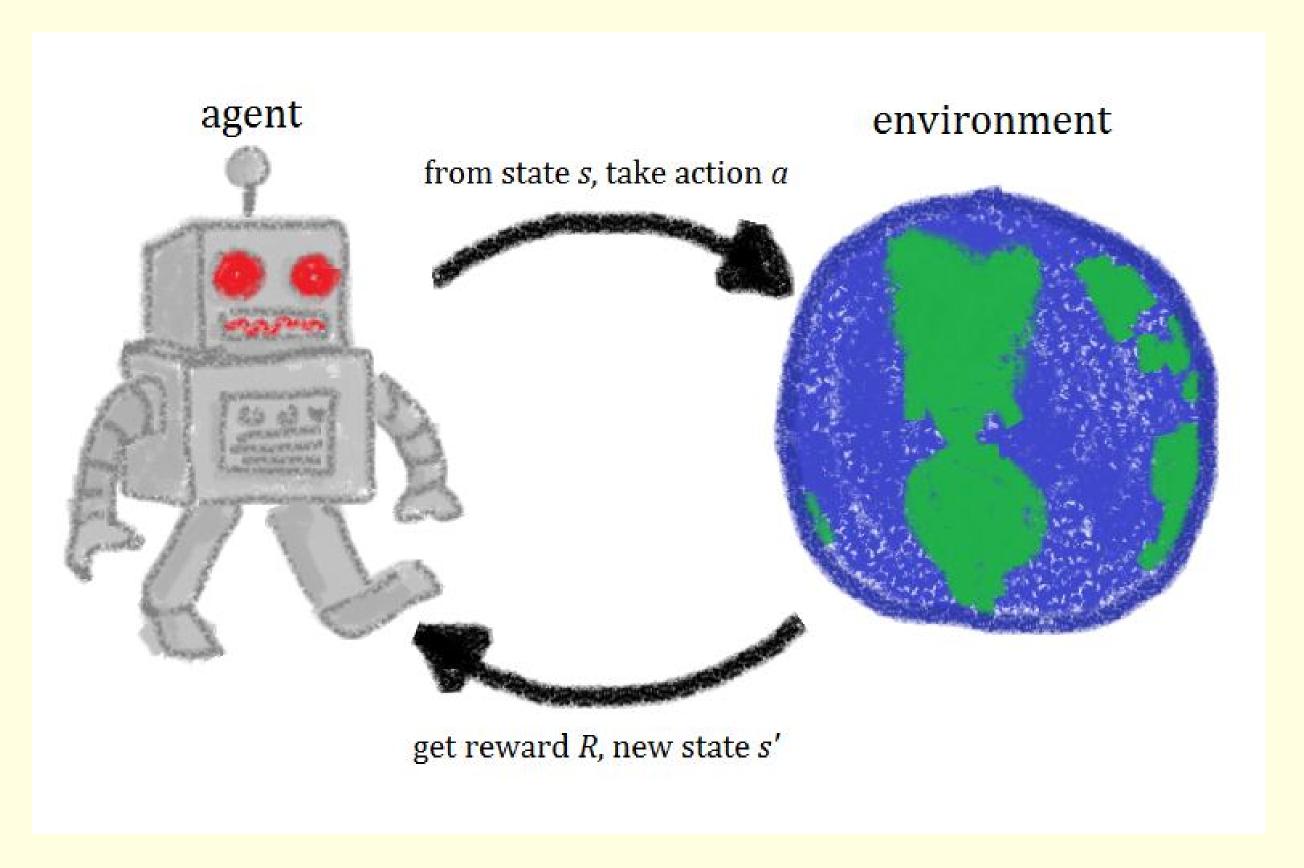
imitation learning





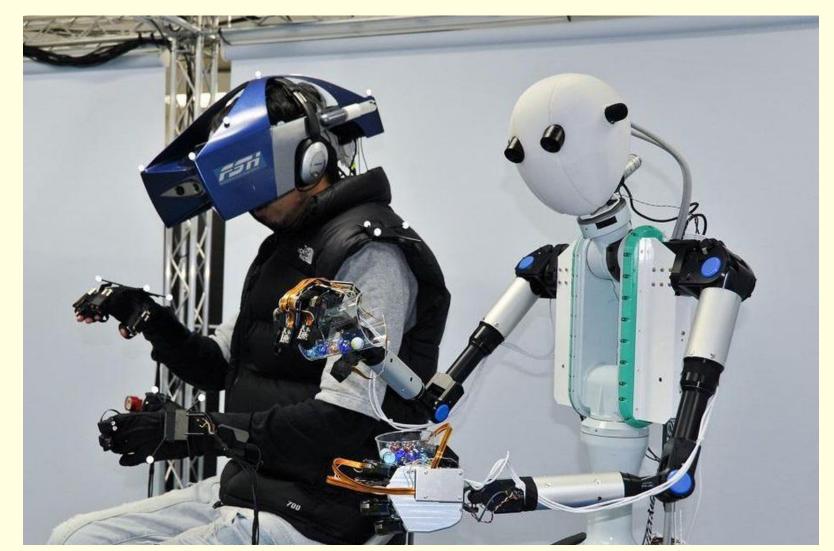
reinforcement learning (RL)

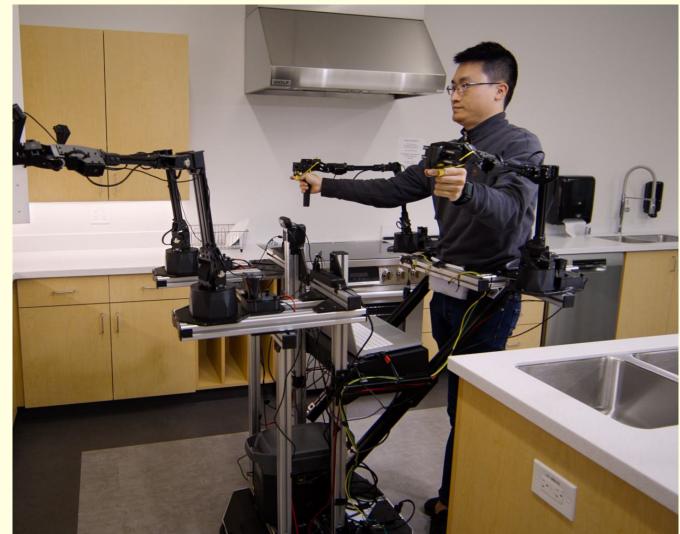


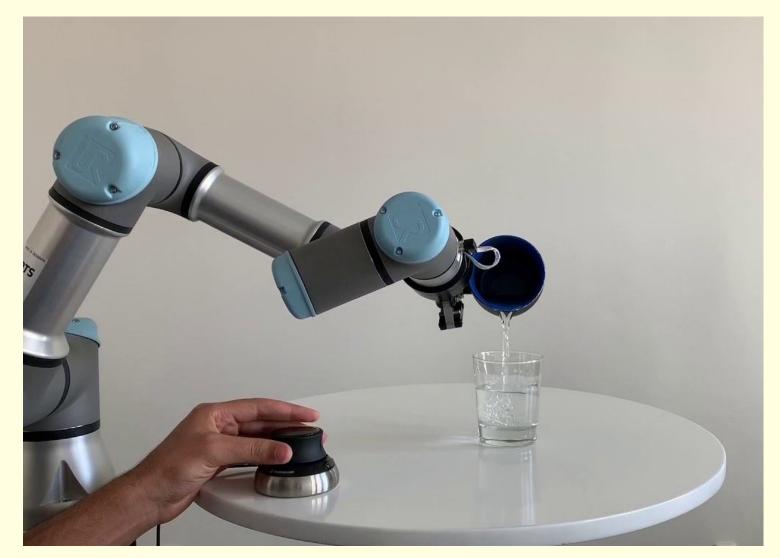


how do you teach robots?

teleoperation







VR teleop

puppeteering

spacemouse

video data





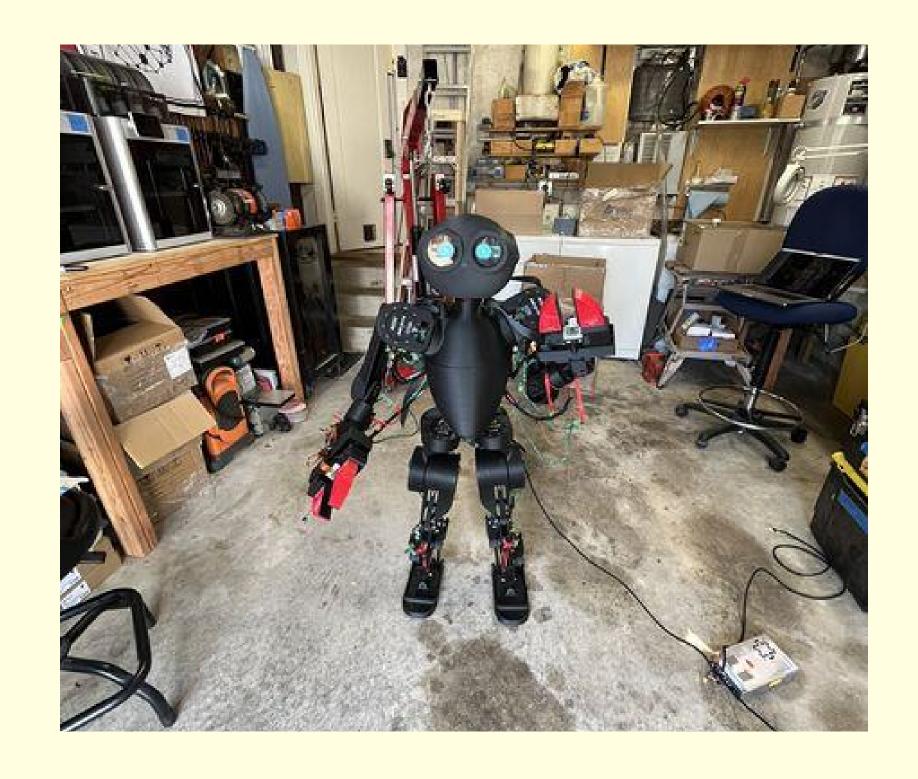
read the paper



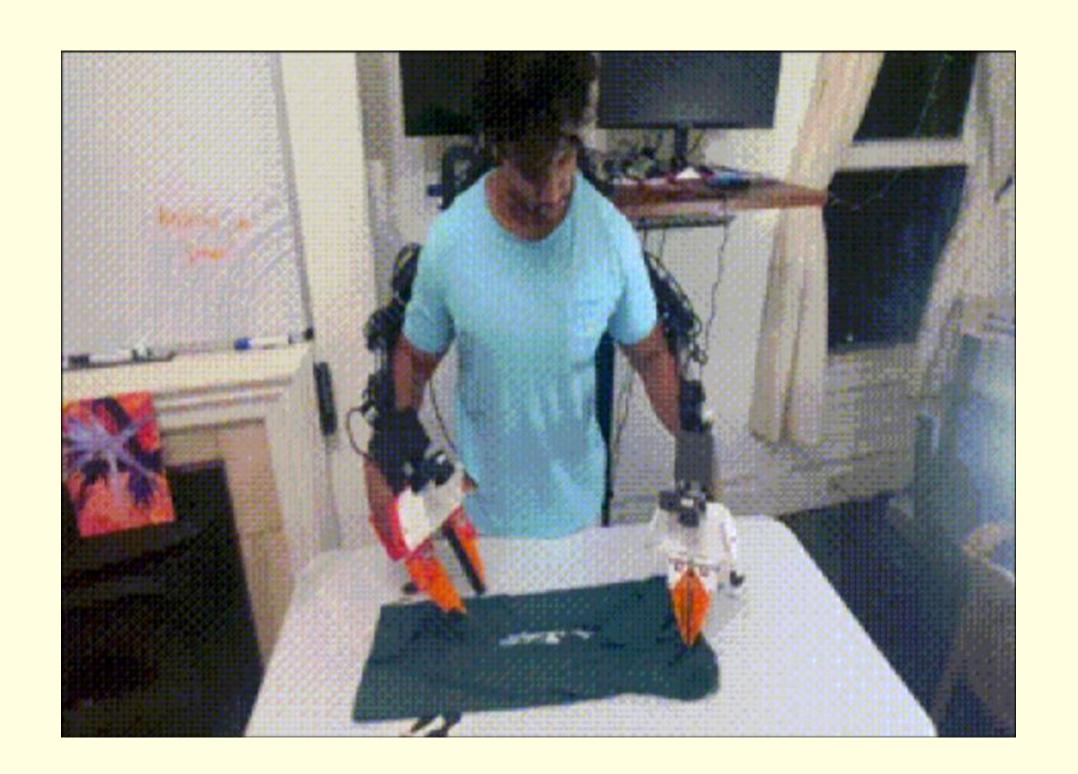
https://umi-gripper.github.io/



https://arxiv.org/pdf/2402.10329



K-Scale Labs (YC W24)

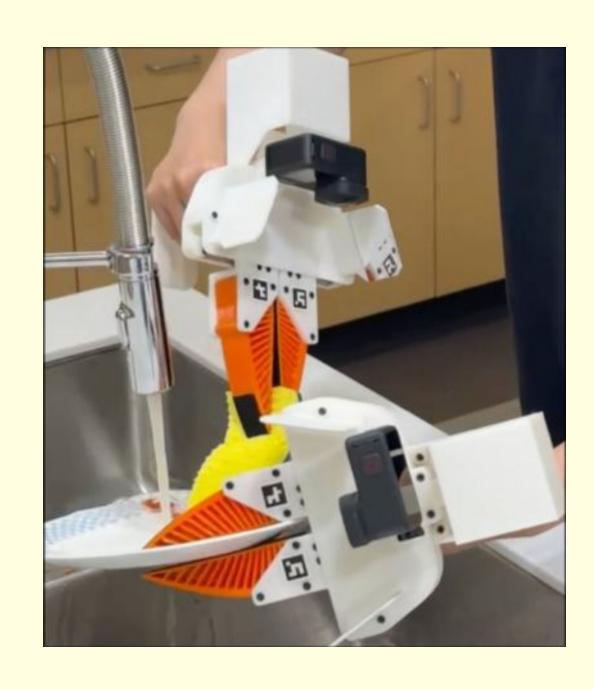


Sensei Robotics (YC S24)

goals

a low cost and intuitive data collection platform generalizable to any hardware

the hardware



3D printed parts

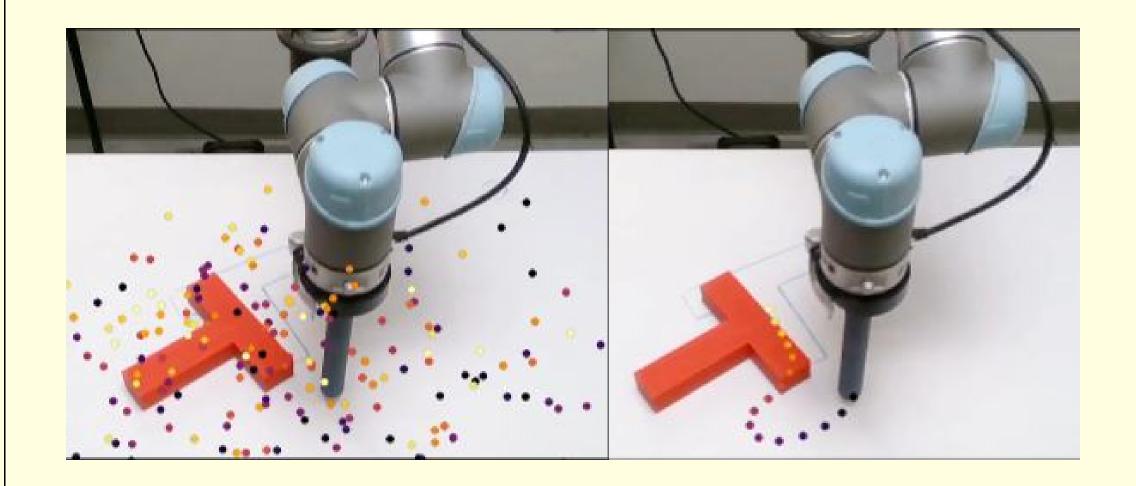


GoPro with fisheye lens

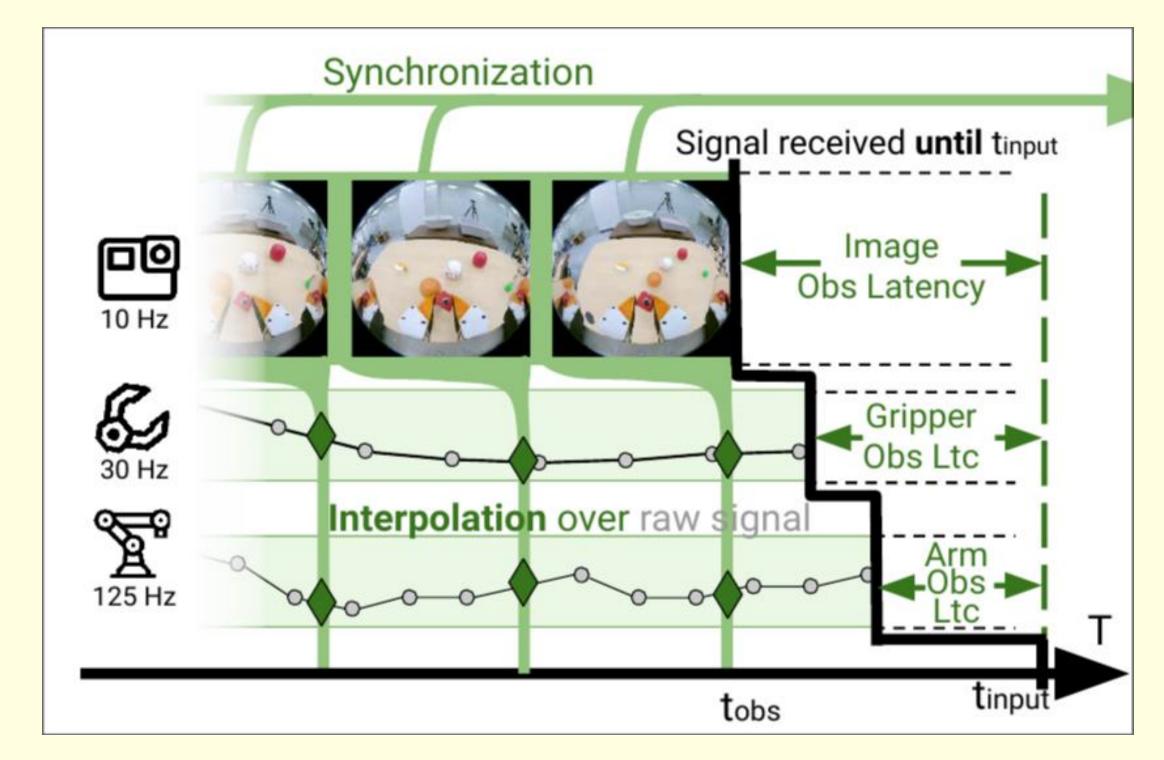


mirrors for stereo vision

the software

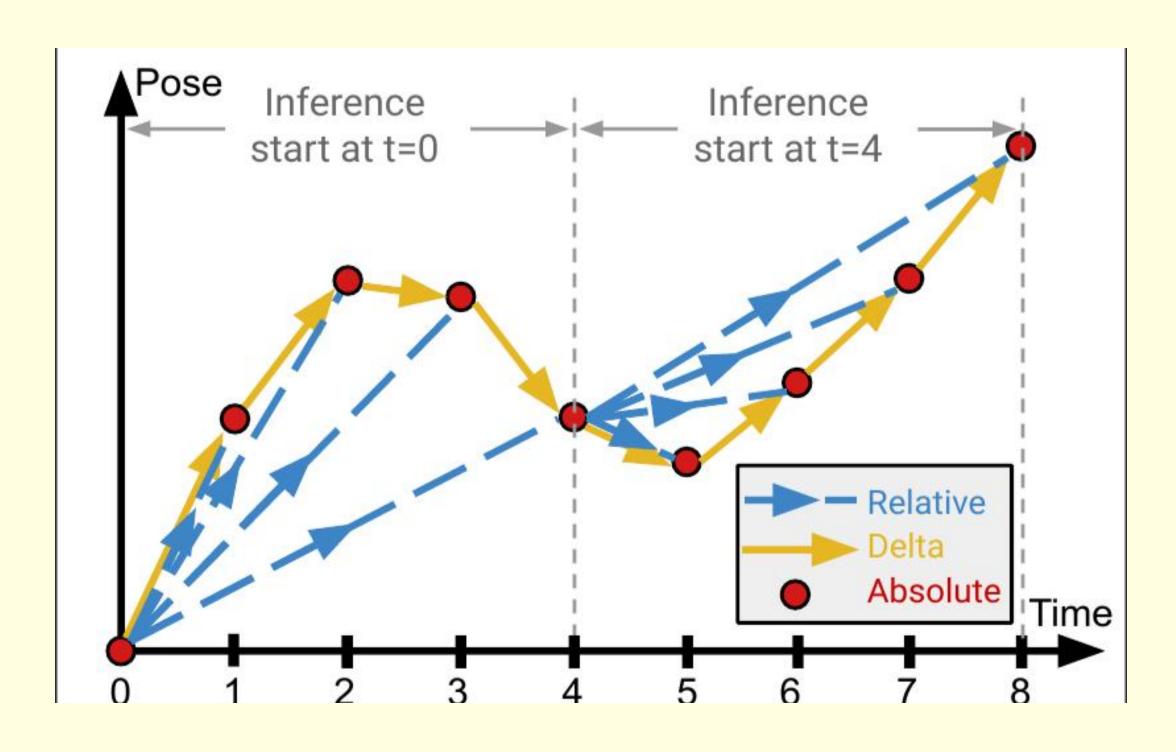


diffusion policy

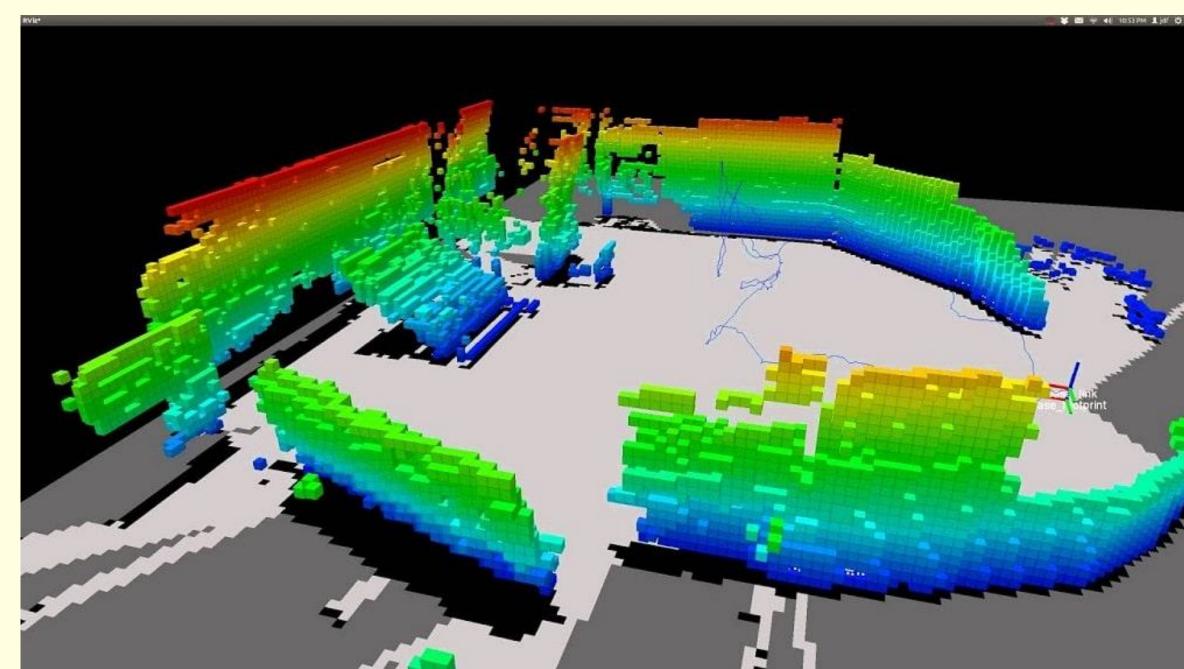


latency matching

the software



relative action trajectories



SLAM for localization

training





collect a lot of diverse data, in a lot of places

evaluation



