

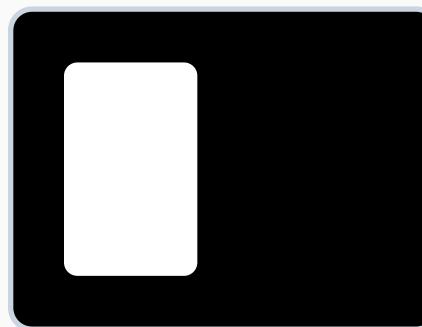
Qualitative Results: SAM2 vs SAM2-Lite

Challenging scenarios: occlusions, deformations, and similar objects

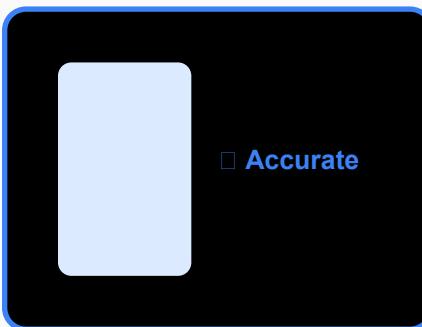
Input Frame



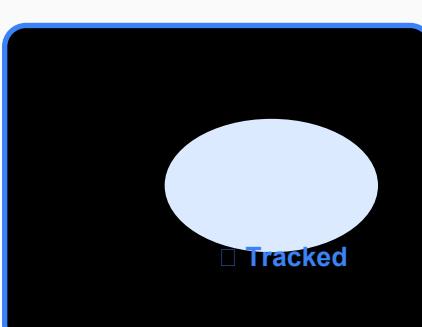
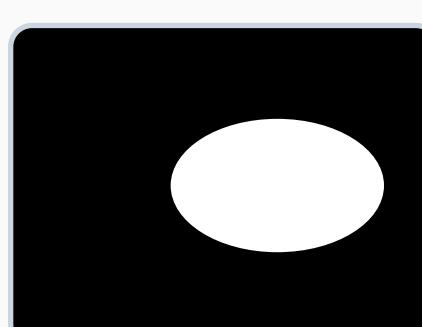
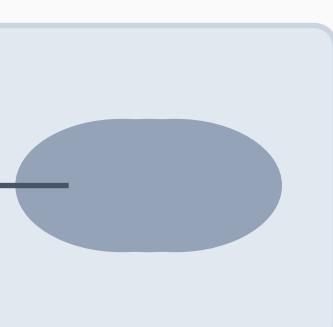
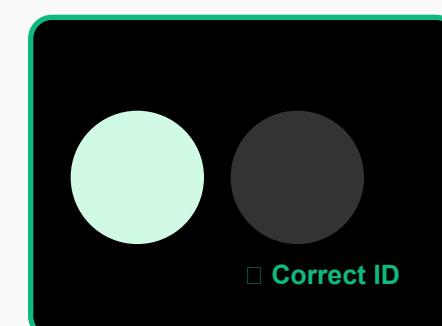
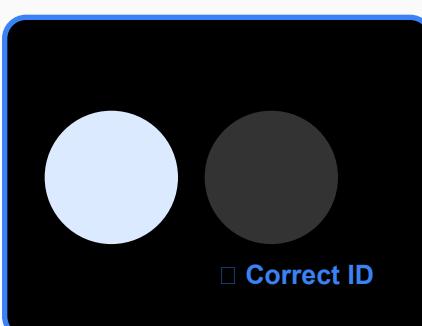
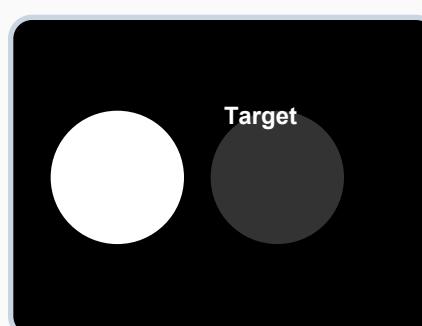
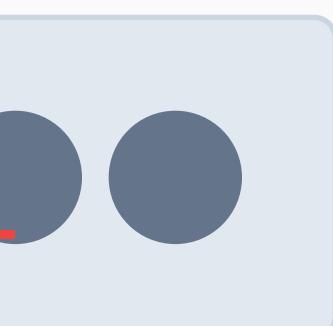
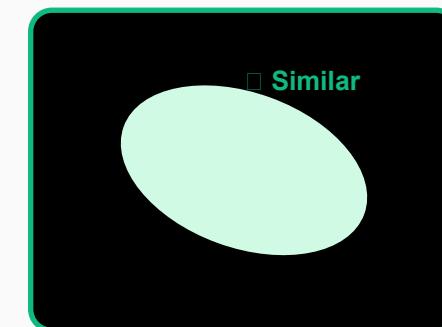
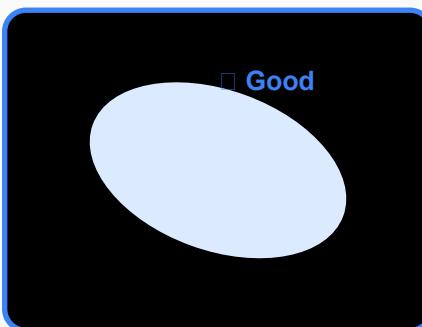
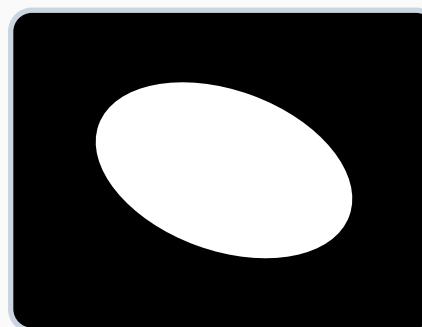
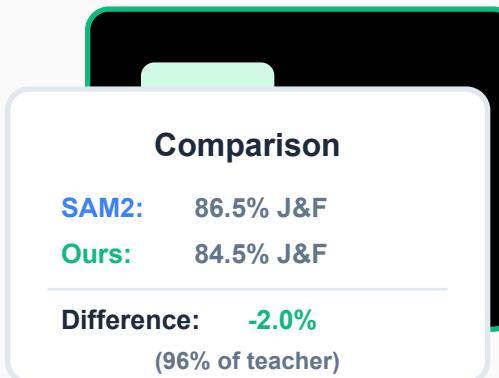
Ground Truth



SAM2 (Teacher)



SAM2-Lite (Ours)



Key Observation: SAM2-Lite produces visually similar results despite using 48x fewer parameters

Minor differences in edge sharpness and very small object details | Overall tracking accuracy maintained