Brief Description

Path Planner Used:

The demo uses the CHOMP (Covariant Hamiltonian Optimization for Motion Planning) planner provided by Movelt 2. CHOMP is a trajectory optimization based planner that efficiently computes smooth, collision free paths for robotic arms.

Obstacle Avoidance Mechanism:

Obstacle avoidance is achieved by adding static collision objects (cubes) to the planning scene using Movelt 2's PlanningSceneInterface. The planner automatically computes a path that avoids these obstacles, ensuring the robot does not collide with them during motion.