Tutorial 8

Application: "Move arm's end-effector above AR Tags"

1. Introduction

This document describes the final task for this ROSIN Training session. It is supposed to wrap up all your current knowledge about ROS and create a real-world application with it.

2. Task description

The final task during this ROSIN Training is to extend a python node that interacts with the UR5 MoveIt Interaction interface and moves the arm's end-effector above the two AR Tags in a continuous loop. See figure 1 for further description.
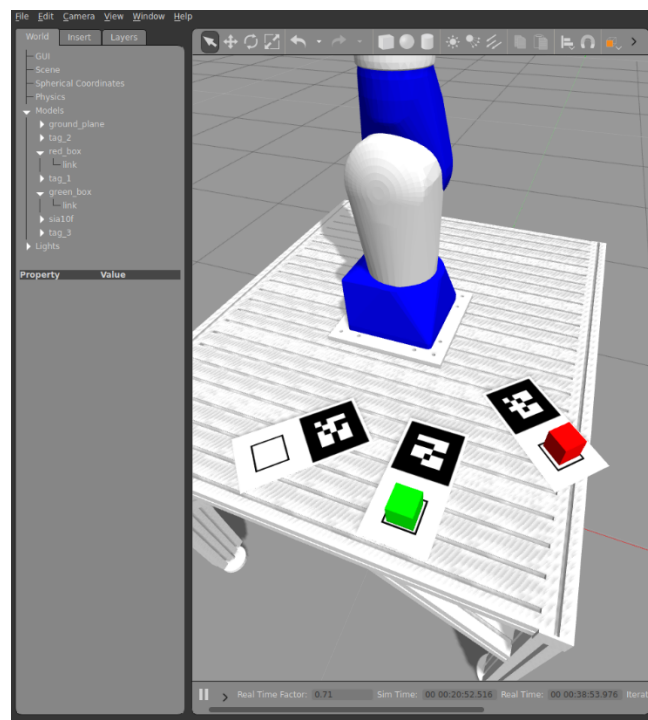

Figure 1:Final setup of boxes.

3. Finding the node of interest

The node of interest is called arm_move.py in the moveit_tutorial package. It contains methods to modify the position of the gripper and to process data given by the AR Track Alvar node.

Your task is to simply extend the node to let the arm move above the AR tags in a loop as shown in figure 1.