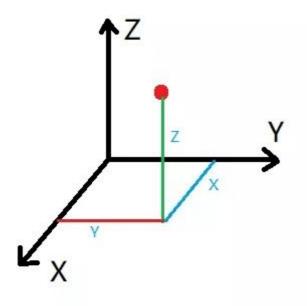
## 5.Cartesian Path

## 1. Introduction

The Cartesian coordinate system is the collective name for the Cartesian coordinate system and the oblique coordinate system. A Cartesian path is actually a line connecting any two points in space.



## 2. Start

Start up MovelT

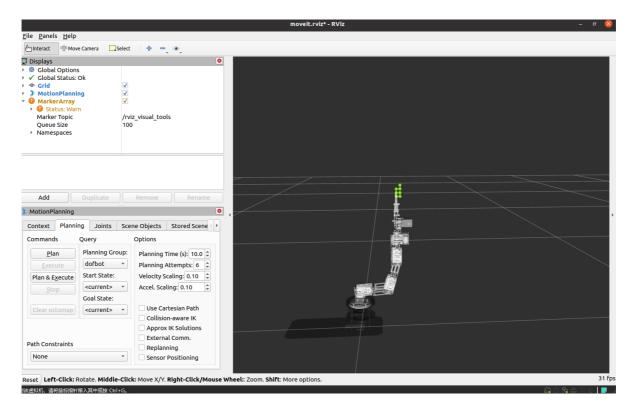
roslaunch dofbot\_config demo.launch

Start Cartesian path code

rosrun dofbot\_moveit 04\_cartesian

• C++ code examples

To view the trajectory, you need to add the [MarkerArray] plug-in and select the [/rviz\_visual\_tools] topic.



## 3. C++ code file

Set a specific location

```
ROS_INFO("Set Init Pose.");
//Set specific location
vector<double> pose{0, -0.69, -0.17, 0.86, 0};
yahboomcar.setJointValueTarget(pose);
```

Add waypoint

```
//Initialize path point vector
std::vector<geometry_msgs::Pose> waypoints;
//Add initial pose to waypoint list
waypoints.push_back(start_pose);
start_pose.position.x -= 0.04;
waypoints.push_back(start_pose);
start_pose.position.z -= 0.02;
waypoints.push_back(start_pose);
start_pose.position.x += 0.04;
waypoints.push_back(start_pose);
start_pose.position.z -= 0.02;
waypoints.push_back(start_pose);
start_pose.position.x += 0.03;
waypoints.push_back(start_pose);
```

Waypoint planning

```
fraction = yahboomcar.computeCartesianPath(waypoints, eef_step, jump_threshold,
trajectory);
```