

ROS Q&A | Move a certain distance, turn, then move (using odometry topic)



In a quick approach to make a robot move, we can start using some determined points or behaviors. In this post, we are going to test a simple algori makes Turisteds 2 performs a movement in a statisgist line, but night and go strappit again. In order to achieve a given point, we are going to use the Colomety, so the focial co-localize field while moves.

```
Now, with the package created, let's take a look on the node programming:
                                                                                                                                                                                                            #include <ros/ros.h&gt;

|#include <tf/ff.h&gt;

#include <geometry_msgs/Twist.h&gt;

#include <geometry_msgs/Pose20.h&gt;

#include <sov_msgs/Ddometry.h&gt;
                                                                                                                                                                                                               geometry_msgs::Pose2D current_pose;
|ros::Publisher_pub_pose2d;
                                                                                                                                                                                                                                 // linear position
current_pose.x = msg-8gt;pose.pose.position.x;
current_pose.y = msg-8gt;pose.pose.position.y;
                                                                                                                                                                                                                           // angular position
current_pose.theta = yaw;
pub_pose2d.publish(current_pose)
                                                                                                                                                                                                                                    SO, DMC("start");

res: init(grag, gray, "now_pub");

res: init(gray, gray, "now_pub");

res: init(gray, gray, "now, "n
                                                                                                                                                                                                                                                   geometry_msgs::Twist move;
//velocity_controls
move.linear.x = ; //speed_value_m/s
move.orgulor.z = -0.3;
movement_pub.publish(move);
                                                                                                                                                                                                                                                      ros::spinOnce();
rote.sleep();
                                                                                                                                                                                                                                    }
//move forward again
ROS_DNFO("move forward");
ros::Time start2 = ros::Time::now();
while(ros::ok() && current_pose.y > -1.5)
                                                                                                                                                                                                                                                   geometry_msgs::Twist move;
//velocity_controls
move_linedr.x = 0.2; //speed_value_m/s
move_ongulor.z =;
movement_pub.publish(move);
                                                                                                                                                                                                                                                      ros::spinOnce();
rote.sleep();
                                                                                                                                                                                                                                                      ros::spinOnce();
rote.sleep();
```

Related content: [RDS] 003 - ROS Development Studio Howto #3 move a robot with a python script

It can't be considered a final solution, after all the starting position is not considered, we are considering the robot starts from a trown point, so it can't be used to any case, that for a very specific one. Although, if we are working with a new robot and trying to more it, to make sure we can work and develop staff or it, this code is appost starting port.

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