

In this lecture, we will finish the build of a simple pick and place pipeline with different MoveGroup APIs.

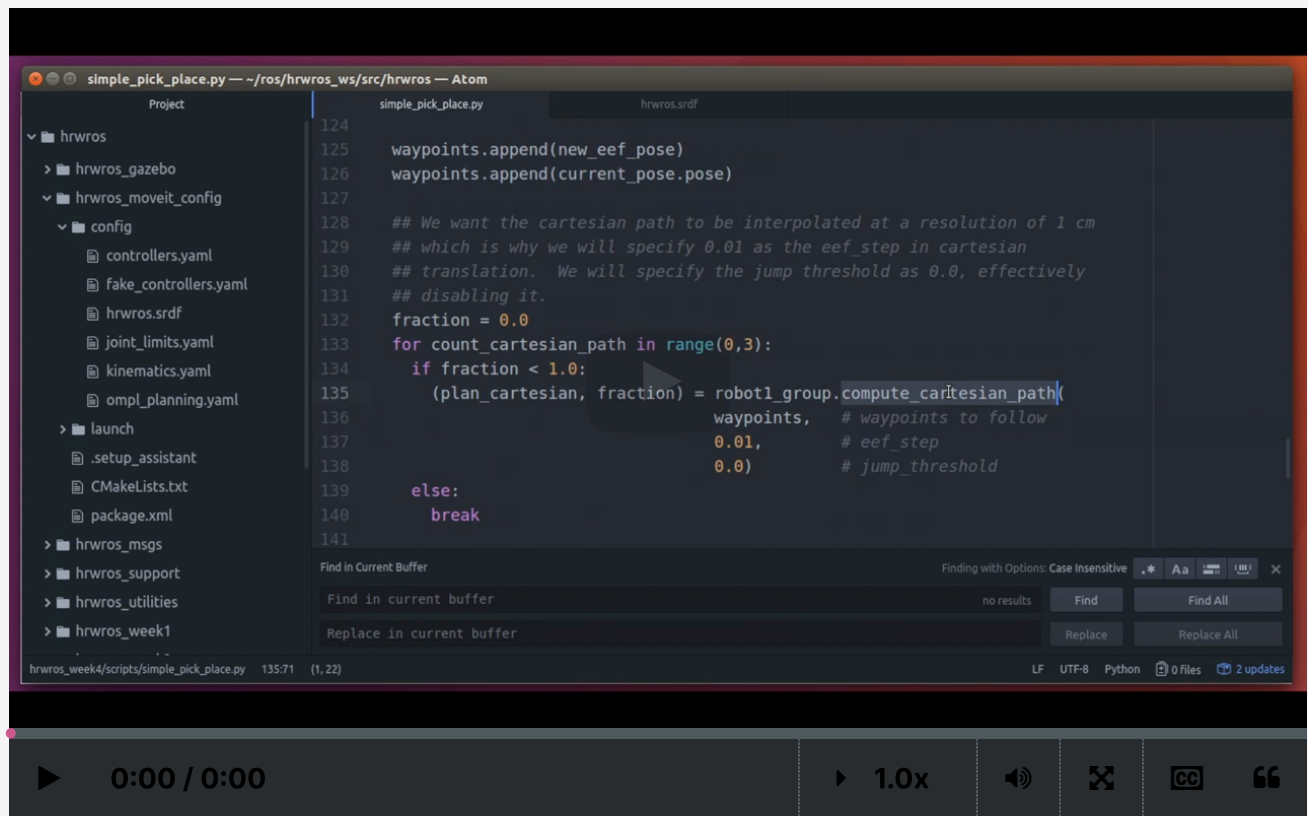
Important Note:

In the new version of ROS, the `plan()` function returns a tuple. Therefore, the old code:

`plan = robot1_group.plan()`, could no longer be used.

It has been replaced by the following code: `_, plan, _, _ = robot1_group.plan()`

Pick & Place: Part 3



Subtitles (captions) in other languages than provided can be viewed at [YouTube](https://www.youtube.com/watch?v=...). Select your language in the CC-button of YouTube

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Computing the linear motion:

`compute_cartesian_path()` API

- Considers current Pose and the starting waypoint
- Uses the waypoints and two other arguments
- Checks for collision
- Outputs
 - Plan - the trajectory of joint angles and
 - A fraction of successful attempts

Update generated trajectory to the goal message and send it.

Lastly, use the `set_named_target("R1Place")` to move the robot to the object.

Run the script to see the robot in action. This concludes the Pick & Place code demonstration.

Question 1

1 point possible (ungraded)

The `compute_cartesian_path` API also checks for collisions of the linear paths it generates.

☐ True

☐ False

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