Setup VSCode for ROS Developing

1. 添加ros包的IncludePath:

• ctrl+shift+p 打开vscode的控制面板,点击C/C++: Edit Configurations (JSON)



之后在当前目录下会生成.vscode文件夹

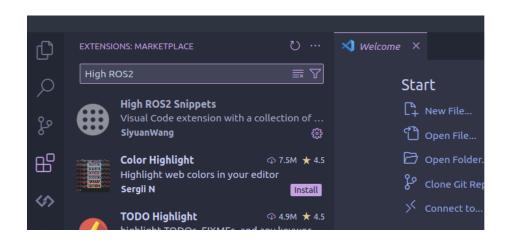
• 打开.vscode/c_cpp_properties.json, 在includePath中添加ros的路径:

```
OPEN EDITORS
               中になり自
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       () c_cpp_properties.... U
                                         "name": "linux-gcc-x64",
                                         "includePath": [
       () settings.json
                                           "${workspaceFolder}/**",
     > action learn
                                           "/opt/ros/humble/**"
     > cpp_pkg
     custom_msg_srv_pkg
                                         "compilerPath": "/usr/bin/gcc",
                                         "cStandard": "${default}",
      > 🖿 srv
                                         "cppStandard": "${default}",
昂
        CMakeLists.txt
       🔓 package.xml
                                         "intelliSenseMode": "linux-gcc-x64",
     > opencv_pkg
                                         "compilerArgs": [
     > py pkg
       README.md
                                     "version": 4
```

之后再编写C++的ROS相关代码时候,就可以使用代码补全功能。

2. 安装一些插件辅助编程:

对于ROS编程,有很多重复的代码片段,安装一个代码片段插件会提高代码书写效率。可以在插件市场安装High ROS2 Snippets,替补代码片段补全功能:



之后便可以使用代码片段补全功能,如:

```
▲ CMakeLists.txt ●
   9 ament target dependencies(talker rclcpp std msgs)
   8 ament_target_dependencies(listener rclcpp std_msgs)
      ament_target_dependencies(server rclcpp example_interfaces)
   6 ament target dependencies(client rclcpp example interfaces)
   5 ament_target_dependencies(mymsg_publisher rclcpp custom_msg_srv_pkg)
      ament_target_dependencies(mysrv_server rclcpp custom_msg_srv_pkg)
      ament target dependencies(mysrv_client rclcpp custom_msg_srv_pkg)
      ament_target_dependencies(myparam rclcpp)
  10 ament_target_dependencies(talker rclcpp std_msgs)
   9 ament_target_dependencies(listener rclcpp std_msgs)
       ament target dependencies (server rclcpp example interfaces)
       ament_target_dependencies(client rclcpp example_interfaces)
   6 ament_target_dependencies(mymsg_publisher rclcpp custom_msg_srv_pkg)
       ament_target_dependencies(mysrv_server rclcpp custom_msg_srv_pkg)
ament_target_dependencies(mysrv_client rclcpp custom_msg_srv_pkg)
       ament_target_dependencies(myparam rclcpp)
       install(TARGETS
       exec_1
exec_2
         DESTINATION lib/PROJECT_NAME)
```