



ROS VSCode

This wiki is built in Notion. Here are all the tips you need to contribute.

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Workspace Configuration

Create the `.vscode` folder in the workspace and copy the following 3 files into `.vscode`

```
{ "configurations": [ { "browse": { "databaseFilename":  
    "", "limitSymbolsToIncludedHeaders": true },  
    "includePath": [ "/opt/ros/noetic/include/**",  
    "/usr/include/**" ], "name": "ROS", "compileCommands":  
    "${workspaceFolder}/build/compile_commands.json" } ],  
    "version": 4 }
```

`c_cpp_properties.json`

```
{ "files.exclude": { ".catkin_tools/": true, "build*/*":  
    true, "install*/*": true, "devel*/*": true, "logs*/*": true,  
    } }
```

`settings.json`

```
{ "version": "2.0.0", "tasks": [ { "type": "catkin_make",  
    "args": [ "-DCMAKE_BUILD_TYPE=Release",  
    "-DCMAKE_EXPORT_COMPILE_COMMANDS=1" ], "problemMatcher": [  
    "$catkin-gcc" ], "group": { "kind": "build", "isDefault":  
    true }, "label": "catkin_make: build" }, { "type":  
    "catkin_make", "args": [  
    "-DCMAKE_BUILD_TYPE=RelWithDebInfo",  
    "-DCMAKE_EXPORT_COMPILE_COMMANDS=1" ], "problemMatcher": [  
    "$catkin-gcc" ], "group": "build", "label": "catkin_make:  
    Debug build" } ] }
```

tasks.json

Debug

Please see

<https://github.com/ms-iot/vscode-ros/blob/master/doc/debug-support.md>

Add the STL Display.

After starting debugging, In the DEBUG CONSOLE, input `-exec`
`-enable-pretty-printing` . Hoping you could solving your bugs.

Eigen Debug

Create a directory and put the file as well as an empty `__init__.py` in the same directory.

<https://gitlab.com/libeigen/eigen/-/blob/master/debug/gdb/printers.py>

To enable the pretty print, edit the file `/etc/gdb/gdbinit` . The file `~/.gdbinit` seems not work in vscode.

```
# System-wide GDB initialization file. ##Eigen pretty
print python import sys sys.path.insert(0, '/home/derek
/softwares/eigen_debugger') from printers import
register_eigen_printers register_eigen_printers(None) end
```