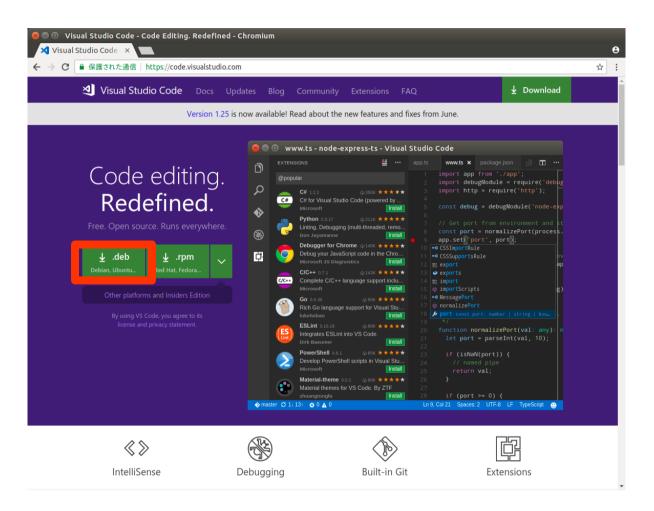
VSCodeでROSデバッグ v0.6

チームリラックマ gogo5nta

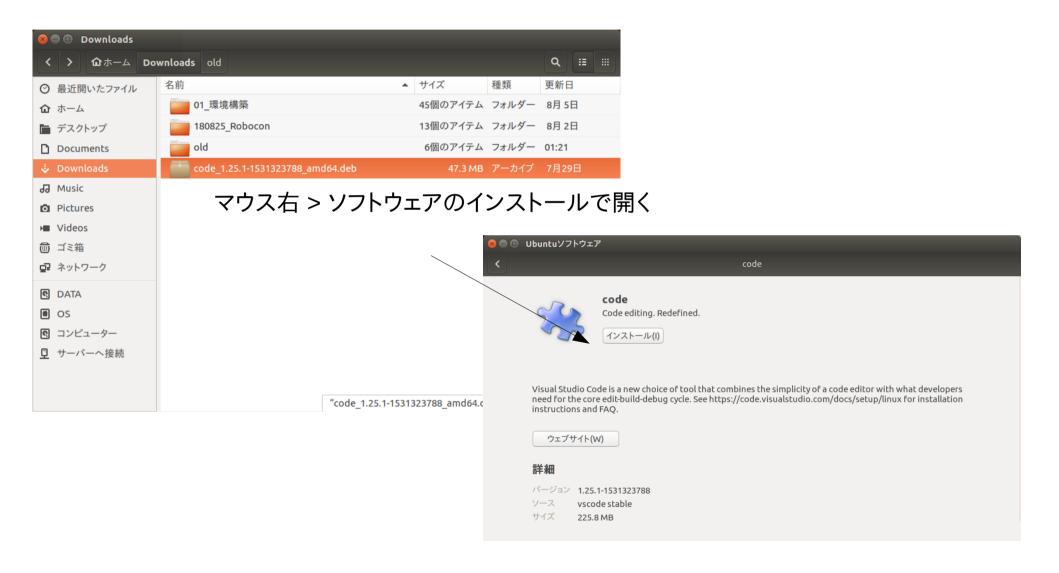
2018.08.07

1. VSCodeの入手



https://code.visualstudio.com/ 上記URLから.debをダウンロード

2. VSCodeのインストール



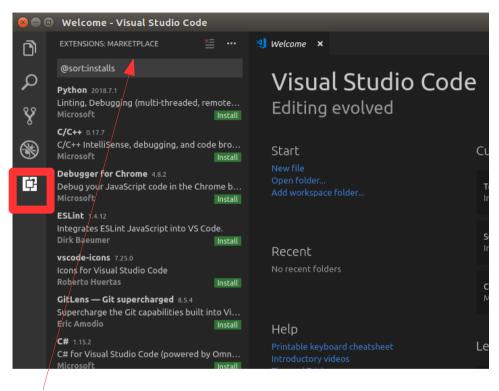
3. VSCode(code)起動

ターミナル上で \$ code

またはcodeで検索

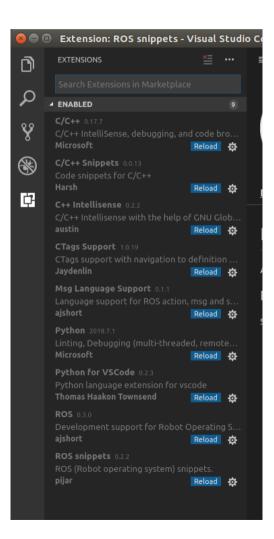


4. VSCodeの設定(初回)

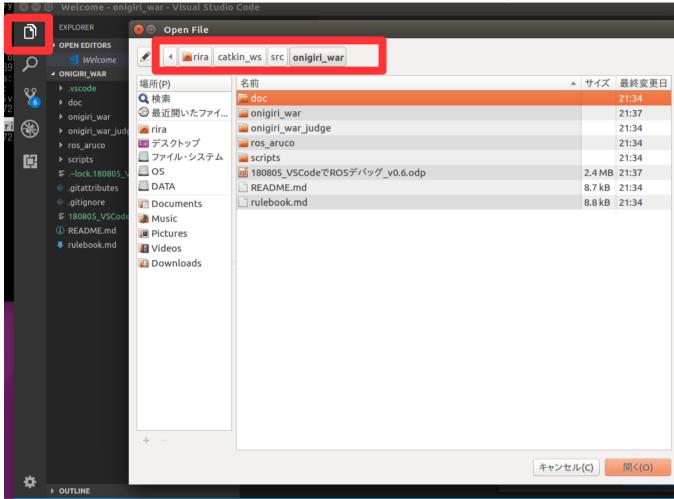


拡張機能のおすすめ C/C++ C/C++ Snippets C++ intellisense Ctags Python Python for VSCode ROS ROS snippets

C++、python、ROSで検索



5. フォルダの設定(プロジェクト毎初回のみ)



Open Foloderで、以下を選択 ~/catkin_ws/src/onigiri_war

6. Debug用に修正

debug用に以下のファイルを作成



onigiri war/onigir iwar/launch/sim robot debug run.launch (debug用robot起動)

1 start sim.sh (sim起動)

#!/bin/bash echo "start onigiri_setup_sim " roslaunch onigiri_war onigiri_setup_sim.launch

2_start_robot.sh (robot起動)

```
#!/bin/bash
echo "start robot script(debug)"

# set judge server state "running"
bash onigiri_war_judge/test_scripts/set_running.sh localhost:5000

# launch robot control node
roslaunch onigiri_war sim_robot_run.launch
#roslaunch onigiri_war/launch/sim_robot_debug_run.launch
```

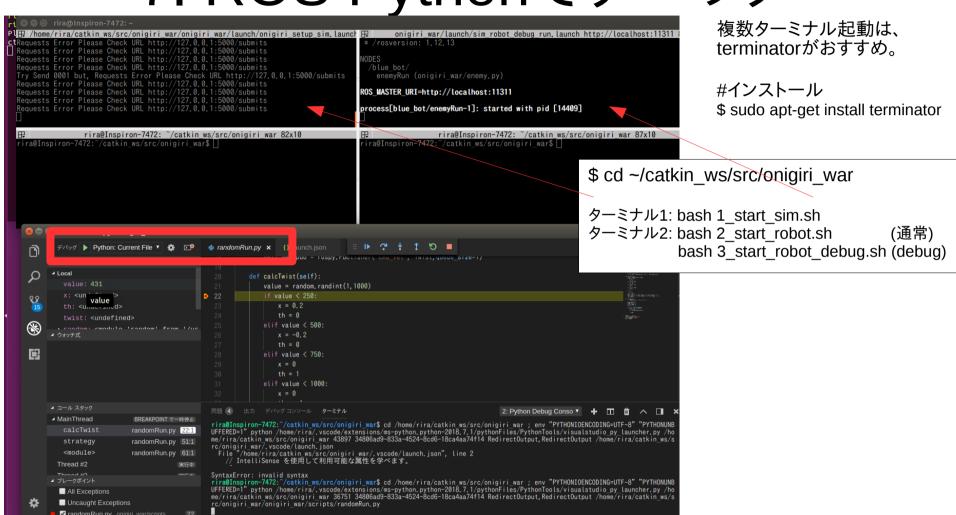
3_start_robot_debug.sh (debug用robot起動)

```
#!/bin/bash
echo "start robot script(debug)"

# set judge server state "running"
bash onigiri_war_judge/test_scripts/set_running.sh
localhost:5000

# launch robot control node
# roslaunch onigiri_war sim_robot_run.launch
roslaunch onigiri_war/launch/sim_robot_debug_run.launch
```

7. ROS Pythonでデバッグ



以下をファイルを開き、debug python: current Files (F5)を実行 onigiri_war/onigiri_war/scripts/randomRun.py

8. gitによるソース管理

```
🙆 🖨 🗊 randomRun.py - onigiri war - Visual Studio Code
                                                 randomRun.py x
                                                                     {} launch.json
        ソース管理: GIT
n
                                                            def calcTwist(self):
                                                                value = random.randint(1,1000)
        変更
                                                                if value < 250:

    180805 VSCodeでROSデバッグ v0.6... U
15
                                                                    x = 0.4
         1 start sim.sh
                                                                    th = 0
         2 start robot.sh
                                                                elif value < 500:
➂
                                                  26
                                                                    x = -0.4
         3 start robot debug.sh
                                                                    th = 0
         {} c cpp properties.json .vscode
                                                                elif value < 750:
         {} launch.json .vscode
中
                                                                    x = 0
         settings.json .vscode
                                                                    th = 1
         elif value < 1000:

I 180805 VSCodeでROSデバッグ v0.5... D
                                                                    x = 0
                                                                    th = -1
         {} c cpp properties.json oniqiri war/.vsc... D
         {} launch.json onigiri war/.vscode
                                                  問題 4
                                                          出力 デバッグ コンソール ターミナル
         settings.json onigiri war/.vscode
                                                  rira@Inspiron-7472:~/catkin_ws/src/onigiri_war$ cd /home/rira/catki
         sim robot debug run.launch onigiri ... U
                                                  UFFERED=1" python /home/rira/.vscode/extensions/ms-python.python-20
                                                  me/rira/catkin ws/src/onigiri war 43897 34806ad9-833a-4524-8cd6-18c
         your onigiri.launch onigiri war/launch M
                                                  rc/onigiri war/.vscode/launch.json
         randomRun.py oniqiri war/scripts
                                                    File "/home/rira/catkin_ws/src/onigiri_war/.vscode/launch.json",
                                                      // IntelliSense を使用して利用可能な属性を学べます。
```