

Introduction Task Autonomous System

Create an online Git repository which has a ROS package (for Iron Irwini, on Ubuntu 22.04). The package shall contain a .launch file which starts the appropriate nodes to run a turtlesim window which makes the turtle move by the arrow keys and makes the background color change when hitting the border of the canvas. The color shall depend on the side you hit the border, with the following configuration:

- Red color when hitting the top side
- Green color when hitting the right side
- Orange color when hitting the bottom side
- Blue color when hitting the left side

The README shall contain all information for required dependencies and steps to run the software.

Resources to start:

WSL2 Installation guide:

[Install Ubuntu on WSL2 on Windows 10](#)

Unix / Linux tutorial (when no experience with Linux):

[UNIX / Linux Tutorial for Beginners](#)

Git(hub) tutorial:

[An Intro to Git and GitHub for Beginners \(Tutorial\)](#)

ROS2 tutorials:

[Installation — ROS 2 Documentation: Iron documentation](#)

[ROS 2 Documentation: Iron documentation](#)

[Using turtlesim, ros2, and rqt — ROS 2 Documentation: Iron documentation](#)