

ROS for LabVIEW Software Help

General Help

Examples for programming in ROS for LabVIEW as well as specifically for the RIOs and Baxter are provided. If additional help is needed, please refer to the [NI Community Group](#) or our mailing list at <https://groups.google.com/forum/#!forum/ros-sig-rosforlabview>.

ROS Help

Programming

Two examples exist that demonstrate passing a string back and forth between a publisher and subscriber. Tutorials also exist in the Help folder for creating publishers, subscribers, message builders, and message parsers.

Starting a Master

To start a Master on your own computer, open the ROS_Master_Main.vi, which is located under ROS > ROS Tools. Run the VI. The IP address of your machine, displayed on your machine, is the IP address of the Master.

RIO Help

A LabVIEW project for the myRIO is provided in the ROSRIO examples. The RIOSampleMaster.vi under this project demonstrates how to communicate with a RIO on which a Master has been deployed.

Baxter Help

Five examples for the Baxter robot currently exist and are:

- Nodding Baxter's head
- Reading Baxter's buttons
- Using Baxter's grippers
- Reading in Baxter's joint states and moving joints to a new location
- Operating one of Baxter's cameras

For help with supported topics for or other questions related to Baxter (but not LabVIEW or ROS for LabVIEW Software), you can find help on the following sites:

http://sdk.rethinkrobotics.com/wiki/Main_Page

<https://groups.google.com/a/rethinkrobotics.com/forum/#!forum/brr-users>