

Guide Contents

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1. Basic Operation:

- [Baxter Robot Startup Procedure](#) – Instructions to correctly start up the Baxter robot.
- [Baxter Robot Shutdown Procedure](#) - Instructions to correctly shut down the Baxter robot.

2. Baxter General Information:

- [Baxter gripper movement and orientation coordinate system.](#) – A brief description of how Baxter's coordinate system works relative to Baxter.

3. Running Demonstration Programs:

- [Baxter codes](#) – A guide on how to run the connect four demonstration and how to calibrate Baxter.
- [Baxter Example Programs](#) – The web page containing the full list of Baxter's example programs and how to run them.

4. Nodes:

- [READ ME Nodes](#) – A brief introduction to the basics of writing nodes and Information on the different types of nodes.
- **Movement:**
 - [euler to quaternion conversion](#) – The function required to convert between the Euler coordinate system and the quaternion coordinate system for the gripper orientation.
 - [ik_solver](#) – The inverse kinematics solver required for movement nodes.
 - [movement_commands_left3](#) – An example movement node for Baxter's left arm.
 - [movement_commands_right3](#) – An example movement node for Baxter's right arm.
- **Vision:**
 - [nottingham](#) – An example node for subscribing to one of Baxter's cameras and processing the image. **Note: This script is Copyright 2014 Active Robots Ltd and for Educational Use Only.**

5. Helpful Links:

- [Baxter Helpful Links](#) – A document containing links to websites that are helpful for Baxter and programming in ROS and Python.

6. Writing Python Scripts Basics:

- [Writing Python Scripts – Useful Commands](#) – A document containing commands that will be frequently used when writing Python scripts for Baxter.
- [Writing Python Scripts – Functions](#) – A document containing a step by step guide on writing basic functions in Python, including the correct formatting.
- [Writing Python Scripts – if Functions](#) – A document containing information on writing a basic and a more complicated if statement, including the correct formatting.
- [Common Fixes for Failing Python Scripts](#) – A few brief troubleshooting solutions for when errors occur running nodes.