

Robot course: Introducing leJOS

Henning Christiansen

18-feb-2009

leJos?

= controlling the Lego robots using a “real programming language”

Open source, written by a collection of people; online/mail support=0

I.e., we must help ourselves

<http://lejos.sourceforge.net/>

- New firmware = small op. sys. plus JVM for NXT
- Java APIs for
 - controlling the NXT as replacement of Lego's "programming language"
 - writing server parts
 - communication Server \leftrightarrow NXT and NXT \leftrightarrow NXT
- Tools for administration

Today's work

Installing and getting familiar with Lejos

1. Installing - may take time :(
2. Get hello world to run
3. Write a little program that makes the robot move forward and stop when touch sensor is triggered
4. Experiment with similar elementary stuff; try both "Controlling the motors" and "Wheeled vehicles"
5. If you succeed in all that, try to redo (parts of) the exercise from last week in LEjos

Next week

- More into threads and communication etc.
- Consider: Splitting leJos among us; each group gets different aspect to investigate and present for all of us.
 - plan for this will follow very soon