

# Robot Programming - Post-Study Questionnaire

Please submit feedback regarding the study you have just completed, including feedback on the robot programming process, user interface, or any difficulties you encountered.

\* Required

1. Participant number \*

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2. Overall system usability \*

Mark only one oval per row.

	Strongly disagree	Disagree	Neutral	Agree	Strongly agree
I think that I would like to use this system frequently.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
I found the system unnecessarily complex.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
I thought the system was easy to use.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
I think that I would need the support of a technical person to be able to use this system.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
I found the various functions in this system were well integrated.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
I thought there was too much inconsistency in this system.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
I would imagine that most people would learn to use this system very quickly.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
I found the system very cumbersome to use.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
I felt very confident using the system.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
I needed to learn a lot of things before I could get going with this system.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

### 3. Overall robot programming experience \*

Mark only one oval per row.

	Strongly disagree	Disagree	Neutral	Agree	Strongly agree
It was easy to manipulate the Baxter's arms	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
The robot programming process is well-adapted for workers on the assembly line	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Baxter's behaviour was intelligent	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
I believe that I have taught Baxter a new task	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
I can explain how Baxter represented the new action	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
I can explain how Baxter learned a new action from my demonstration	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
I can explain how Baxter represented the preconditions and effects of the new action	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
I did not encounter any difficulties during the experiment	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
No programming experience is required to teach Baxter a new task	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
I understood why the generated plan was wrong	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
I understood why Baxter failed to complete a task	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Overall, I am satisfied with the ease of completing the tasks in the scenarios	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Overall, I am satisfied with the amount of time it took to complete the tasks	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
If I was a factory worker on an assembly line, it would be easy for me to become skillful at using the system	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

**4. What was the most useful part? \***

*Mark only one oval.*

- ☐ Detects types automatically
- ☐ Objects are visualised on the interface
- ☐ Robot learns the action from my demonstration
- ☐ Detects conditions automatically
- ☐ Generate solutions to defined goal automatically
- ☐ Other: \_\_\_\_\_

**5. What part of the programming process did you dislike the most? \***

*Mark only one oval.*

- ☐ Demonstrate an action on Baxter
- ☐ Assign action conditions
- ☐ Create a problem for Baxter to solve
- ☐ Setting a goal
- ☐ Execute a generated plan
- ☐ Other: \_\_\_\_\_

**6. What part of the programming process did you like the best? \***

*Mark only one oval.*

- ☐ Demonstrate an action on Baxter
- ☐ Assign action conditions
- ☐ Create a problem for Baxter to solve
- ☐ Setting a goal
- ☐ Execute a generated plan
- ☐ Other: \_\_\_\_\_

**7. What was the most difficult part of the experiment?**

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8. How would you improve the robot programming process?

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9. What other object types would you like Baxter to know?

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10. What other predicates would you like Baxter to know?

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11. If given the time, what would you like to teach Baxter?

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12. Would you like to be contacted to participate in a follow-up study? \*

*Mark only one oval.*

☐ Yes

☐ No

13. If yes, please enter your email address

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14. If yes, please select the weeks that you would be available to take the follow-up study (exact time and date will be confirmed later)

*Check all that apply.*

☐ Dec 17-21

☐ Jan 7-11

☐ Jan 14-18

**15. Any additional comments**

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