Q1 What is your age?

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Q2 To which gender do you most identify?

* Female (1)
* Male (2)
* Nonbinary (3)
* Self-assigned: (4) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Q3 What is your highest level of education completed?

* High School (1)
* Associate's Degree (2)
* Bachelor's Degree (3)
* Master's Degree (4)
* Doctorate (5)
* Other: (6) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Q4 How would you rate your experience with robots?

* No experience (1)
* Beginner (2)
* Intermediate (3)
* Advanced (4)

Q5 How would you rate your familiarity with technology in general?

* Not familiar (1)
* Somewhat familiar (2)
* Very familiar (3)
* Expert (4)

|  |  |
| --- | --- |
| Page Break |  |

Q6 How would you rate your overall experience with each modality?

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Voice Commands (1) |  |  |  |  |  |
| Gesture Recognition (2) |  |  |  |  |  |
| Manual Control (3) |  |  |  |  |  |

Q7 Which modality did you find the most intuitive and easy to use?

* Voice Commands (1)
* Gesture Recognition (2)
* Manual Control (3)

Q8 Which modality did you find the most challenging to use?

* Voice Commands (4)
* Gesture Recognition (5)
* Manual Control (6)

Q9 In the time-constraint scenario (larger lego blocks), which modality do you think was the most effective?

* Voice Commands (4)
* Gesture Recognition (5)
* Manual Control (6)

Q10 In the precision-constraint scenario (smaller lego blocks), which modality do you think was the most effective?

* Voice Commands (4)
* Gesture Recognition (5)
* Manual Control (6)

Q11 How easy was it to switch between modalities?

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | 1 | 2 | 3 | 4 | 5 |  |
|  | 1 (1) | 2 (2) | 4 (4) | 5 (5) | 6 (6) |  |
| Very Easy |  |  |  |  |  | Very Hard |

Q12 Did you encounter any difficulties with the controls or instructions provided?

* Yes (1)
* No (2)

Display This Question:

If Ease of use = Yes

Q13 If Yes: Please specify the difficulties briefly.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Q14 Do you have any suggestions for improving the usability of any of the modalities?

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Q15 If you were to perform a similar task under stress (e.g., in a real surgical scenario), which modality would you prefer to use?

* Voice Commands (1)
* Gesture Recognition (2)
* Manual Control (3)

Q16 Do you have any additional comments or feedback about the experiment?

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End of Block: Default Question Block