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Consent Form

Ethical Clearance: MRSP-24/25-50343

I would like to invite you to participate in this research project which forms part of my PhD research.

What is the purpose of the project?

We want to explore what questions people have about robot behaviour. This will allow us to program more user-friendly robots.

What will happen if I take part?

You will take part in an anonymous survey. During the survey, you will:

- watch robotics videos,
- answer a few questions afterward.

The survey will take you approximately 15 minutes to complete.

Do I have to take part?

Participation is completely voluntary.

Data handling and confidentiality

This research is anonymous. This means that nobody, including the researchers, will be aware of your identity, and that nobody will be able to connect you to the answers you provide. Your answers will be treated confidentially and the information you provide will not allow you to be identified in any research outputs. Your survey answers will be held securely on our servers, but they might be published on a public data repository.

Your data will be processed under the terms of UK data protection law (including the UK GDPR and the Data Protection Act 2018)

What if I change my mind about taking part?

You are free to withdraw at any point by simply closing the browser window! If you withdraw up until the end of the experiment, we will not retain your data. However, you will not be paid in that case and need to return your

submission on Prolific by selecting the 'Stop without completing' button.

What will happen to the results of the project?

The results will be published in my PhD thesis and scientific papers.

Contacts

If you have any questions or want to know more, contact Lennart Wachowiak, lennart.wachowiak@kcl.ac.uk

Funder: UK Research and Innovation

Thank you for taking part!!! 😊

I consent to take part in the study and understand the above information.

☐ Yes

☐ No

By clicking 'I understand' you agree to maintain the confidentiality of this project and not to divulge or otherwise make known to unauthorized persons any of the information about this project accessed by you

during this study. If you do not wish to proceed on, you may close this form and withdraw your participation by returning the submission in Prolific.

Please note that you will not be paid if you return the submission at this stage as you have not completed the study.

☐ I understand

Video Intro

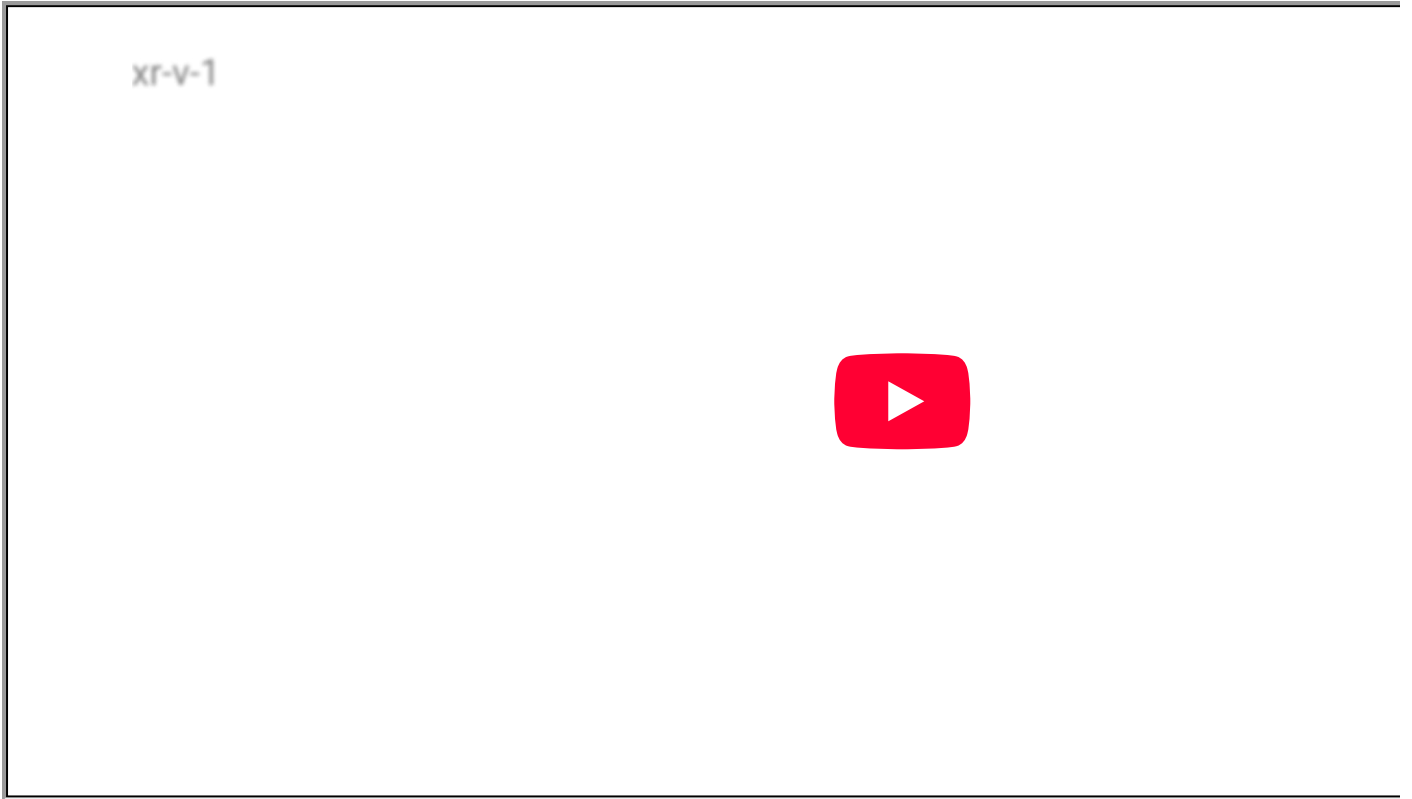
As part of this survey, we will ask you to watch some **short videos** of a robot and answer questions about them. Feel free to watch the videos in fullscreen and rewatch the clip if needed. In addition to videos, you will also encounter **text-based** scenarios.

Video Intro 2 (Replay)

If you **want to rewatch** parts of a video use the **left arrow key** on the key board (←).

Video 1 Making a Salad

Watch this video first before going to the questions.



What **questions** would you want the robot to be able to answer **about its behaviour related to the task**?

Please provide questions **directly related to what you saw in the video**.

Importantly, we are looking for questions in response to which the robot has to explain itself and its behaviour. We do not look for general questions about the world, such as "How is the weather?"

Question 1:

How important is it to you that a robot you interact with can answer such a question?

- ☐ Not at all important
- ☐ Slightly important
- ☐ Moderately important
- ☐ Very important
- ☐ Extremely important

Question 2:

How important is it to you that a robot you interact with can answer such a question?

- ☐ Not at all important
- ☐ Slightly important

- ☐ Moderately important
- ☐ Very important
- ☐ Extremely important

For this question, choose the answer "green".

- ☐ red
- ☐ blue
- ☐ green

Beyond questions related directly to the video, what type of questions about its task and behaviour do you think a robot like in the video should be able to answer?

Question 1:

How important is it to you that a robot you interact with can answer such a question?

- ☐ Not at all important
- ☐ Slightly important
- ☐ Moderately important

- ☐ Very important
- ☐ Extremely important

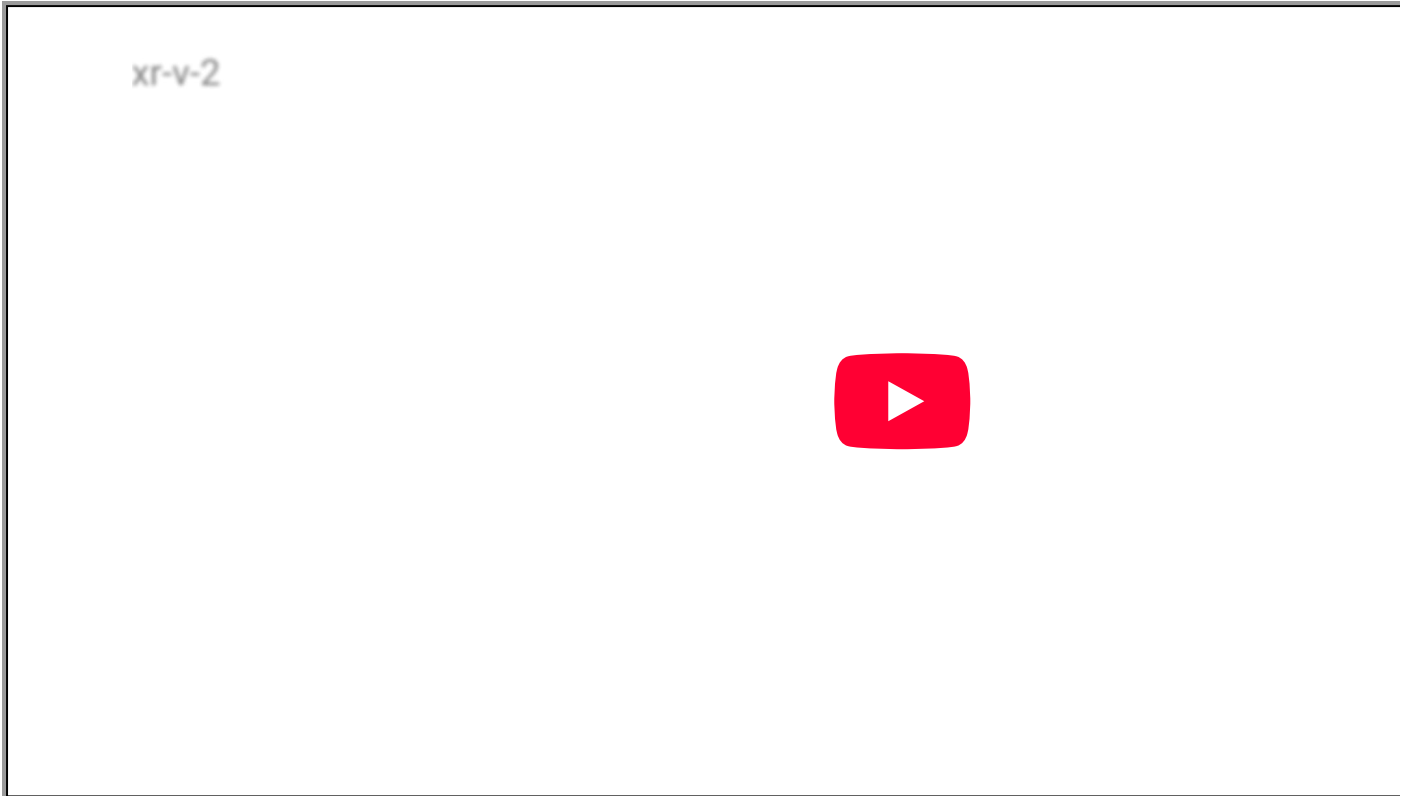
[Optional] Question 2:

[Optional] How important is it to you that a robot you interact with can answer such a question?

- ☐ Not at all important
- ☐ Slightly important
- ☐ Moderately important
- ☐ Very important
- ☐ Extremely important

Video 2 Preparing a Lunchbox

Watch this video first before going to the questions.



Which of these items did the robot hold in its hands during the video?

- ☐ a banana
- ☐ an orange
- ☐ a spoon

What **questions** would you want the robot to be able to answer **about its behaviour related to the task**?

Please provide questions **directly related to what you saw in the video**.

Importantly, we are looking for questions in response to which the robot has to explain itself and its behaviour. We do not look for general questions about the world, such as "How is the weather?"

Question 1:

How important is it to you that a robot you interact with can answer such a question?

- ☐ Not at all important
- ☐ Slightly important
- ☐ Moderately important
- ☐ Very important
- ☐ Extremely important

Question 2:

How important is it to you that a robot you interact with can answer such a question?

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- ☐ Very important
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Beyond questions related directly to the video, what type of questions about its task and behaviour do you think a robot like in the video should be able to answer?

Question 1:

How important is it to you that a robot you interact with can answer such a question?

- ☐ Not at all important
- ☐ Slightly important
- ☐ Moderately important
- ☐ Very important
- ☐ Extremely important

[Optional] Question 2:

[Optional] How important is it to you that a robot you interact with can answer such a question?

- ☐ Not at all important
- ☐ Slightly important
- ☐ Moderately important
- ☐ Very important
- ☐ Extremely important

Video3 Two Robots Cooperating When Packing A Fridge

Watch this video first before going to the questions.

xr-v-3



What **questions** would you want the robot to be able to answer **about its behaviour related to the task**?

Please provide questions **directly related to what you saw in the video**.

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Question 1:

How important is it to you that a robot you interact with can answer such a question?

- ☐ Not at all important
- ☐ Slightly important
- ☐ Moderately important
- ☐ Very important
- ☐ Extremely important

Question 2:

How important is it to you that a robot you interact with can answer such a question?

- ☐ Not at all important
- ☐ Slightly important
- ☐ Moderately important
- ☐ Very important
- ☐ Extremely important

Beyond questions related directly to the video, what type of questions about its task and behaviour do you think a robot like in the video should be able to answer?

Question 1:

How important is it to you that a robot you interact with can answer such a question?

- ☐ Not at all important
- ☐ Slightly important
- ☐ Moderately important
- ☐ Very important
- ☐ Extremely important

[Optional] Question 2:

[Optional] How important is it to you that a robot you interact with can answer such a question?

- ☐ Not at all important
- ☐ Slightly important
- ☐ Moderately important
- ☐ Very important
- ☐ Extremely important

Video 4 Cleaning the Kitchen

Watch this video first before going to the questions.

xr-v-4



What **questions** would you want the robot to be able to answer **about its behaviour related to the task**?

Please provide questions **directly related to what you saw in the video**.

Importantly, we are looking for questions in response to which the robot has to explain itself and its behaviour. We do not look for general questions about the world, such as "How is the weather?"

Question 1:

How important is it to you that a robot you interact with can answer such a question?

- ☐ Not at all important
- ☐ Slightly important
- ☐ Moderately important
- ☐ Very important
- ☐ Extremely important

Question 2:

How important is it to you that a robot you interact with can answer such a question?

- ☐ Not at all important
- ☐ Slightly important
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Beyond questions related directly to the video, what type of questions about its task and behaviour do you think a robot like in the video should be able to answer?

Question 1:

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- ☐ Not at all important
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- ☐ Very important
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[Optional] Question 2:

[Optional] How important is it to you that a robot you interact with can answer such a question?

- ☐ Not at all important
- ☐ Slightly important
- ☐ Moderately important
- ☐ Very important
- ☐ Extremely important

Video 5 Tidying the Bedroom

Watch this video first before going to the questions.

xr-v-5



What **questions** would you want the robot to be able to answer **about its behaviour related to the task**?

Please provide questions **directly related to what you saw in the video**.

Importantly, we are looking for questions in response to which the robot has to explain itself and its behaviour. We do not look for general questions about the world, such as "How is the weather?"

Question 1:

How important is it to you that a robot you interact with can answer such a question?

- ☐ Not at all important
- ☐ Slightly important
- ☐ Moderately important
- ☐ Very important
- ☐ Extremely important

Question 2:

How important is it to you that a robot you interact with can answer such a question?

- ☐ Not at all important
- ☐ Slightly important
- ☐ Moderately important
- ☐ Very important
- ☐ Extremely important

Beyond questions related directly to the video, what type of questions about its task and behaviour do you think a robot like in the video should be able to answer?

Question 1:

How important is it to you that a robot you interact with can answer such a question?

- ☐ Not at all important
- ☐ Slightly important
- ☐ Moderately important
- ☐ Very important
- ☐ Extremely important

[Optional] Question 2:

[Optional] How important is it to you that a robot you interact with can answer such a question?

- ☐ Not at all important
- ☐ Slightly important
- ☐ Moderately important
- ☐ Very important
- ☐ Extremely important

Video 6 Tidying a Room

Watch this video first before going to the questions.

xr-v-6



What **questions** would you want the robot to be able to answer **about its behaviour related to the task**?

Please provide questions **directly related to what you saw in the video**.

Importantly, we are looking for questions in response to which the robot has to explain itself and its behaviour. We do not look for general questions about the world, such as "How is the weather?"

Question 1:

How important is it to you that a robot you interact with can answer such a question?

- ☐ Not at all important
- ☐ Slightly important
- ☐ Moderately important
- ☐ Very important
- ☐ Extremely important

Question 2:

How important is it to you that a robot you interact with can answer such a question?

- ☐ Not at all important
- ☐ Slightly important
- ☐ Moderately important
- ☐ Very important
- ☐ Extremely important

Beyond questions related directly to the video, what type of questions about its task and behaviour do you think a robot like in the video should be able to answer?

Question 1:

How important is it to you that a robot you interact with can answer such a question?

- ☐ Not at all important
- ☐ Slightly important
- ☐ Moderately important
- ☐ Very important
- ☐ Extremely important

[Optional] Question 2:

[Optional] How important is it to you that a robot you interact with can answer such a question?

- ☐ Not at all important
- ☐ Slightly important
- ☐ Moderately important
- ☐ Very important
- ☐ Extremely important

Video 7 Unloading a Washing Machine/Dryer

Watch this video first before going to the questions.

xr-v-7



What **questions** would you want the robot to be able to answer **about its behaviour related to the task**?

Please provide questions **directly related to what you saw in the video**.

Importantly, we are looking for questions in response to which the robot has to explain itself and its behaviour. We do not look for general questions about the world, such as "How is the weather?"

Question 1:

How important is it to you that a robot you interact with can answer such a question?

- ☐ Not at all important
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- ☐ Very important
- ☐ Extremely important

Question 2:

How important is it to you that a robot you interact with can answer such a question?

- ☐ Not at all important
- ☐ Slightly important
- ☐ Moderately important
- ☐ Very important
- ☐ Extremely important

Beyond questions related directly to the video, what type of questions about its task and behaviour do you think a robot like in the video should be able to answer?

Question 1:

How important is it to you that a robot you interact with can answer such a question?

- ☐ Not at all important
- ☐ Slightly important
- ☐ Moderately important
- ☐ Very important
- ☐ Extremely important

[Optional] Question 2:

[Optional] How important is it to you that a robot you interact with can answer such a question?

- ☐ Not at all important
- ☐ Slightly important
- ☐ Moderately important
- ☐ Very important
- ☐ Extremely important

Video 8 Folding Multiple Items of Clothing

Watch this video first before going to the questions.

xr-v-8



How many pieces of clothing did the robot fold?

- ☐ 1
- ☐ 2
- ☐ 3

What **questions** would you want the robot to be able to answer **about its behaviour related to the task**?

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Importantly, we are looking for questions in response to which the robot has to explain itself and its behaviour. We do not look for general questions about the world, such as "How is the weather?"

Question 1:

How important is it to you that a robot you interact with can answer such a question?

- ☐ Not at all important

- ☐ Slightly important
- ☐ Moderately important
- ☐ Very important
- ☐ Extremely important

Question 2:

How important is it to you that a robot you interact with can answer such a question?

- ☐ Not at all important
- ☐ Slightly important
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Beyond questions related directly to the video, what type of questions about its task and behaviour do you think a robot like in the video should be able to answer?

Question 1:

How important is it to you that a robot you interact with can answer such a question?

- ☐ Not at all important
- ☐ Slightly important
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- ☐ Very important
- ☐ Extremely important

[Optional] Question 2:

[Optional] How important is it to you that a robot you interact with can answer such a question?

- ☐ Not at all important
- ☐ Slightly important
- ☐ Moderately important
- ☐ Very important
- ☐ Extremely important

Video 9 Folding a T-Shirt and Handing It Over

Watch this video first before going to the questions.



What **questions** would you want the robot to be able to answer **about its behaviour related to the task**?

Please provide questions **directly related to what you saw in the video**.

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do not look for general questions about the world, such as "How is the weather?"

Question 1:

How important is it to you that a robot you interact with can answer such a question?

- ☐ Not at all important
- ☐ Slightly important
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How important is it to you that a robot you interact with can answer such a question?

- ☐ Not at all important
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- ☐ Moderately important
- ☐ Very important
- ☐ Extremely important

Beyond questions related directly to the video, what type of questions about its task and behaviour do you think a robot like in the video should be able to answer?

Question 1:

How important is it to you that a robot you interact with can answer such a question?

- ☐ Not at all important
- ☐ Slightly important
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- ☐ Very important
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[Optional] Question 2:

[Optional] How important is it to you that a robot you interact with can answer such a question?

- ☐ Not at all important
- ☐ Slightly important
- ☐ Moderately important
- ☐ Very important
- ☐ Extremely important

Video 10 Loading a Dishwasher

Watch this video first before going to the questions.

xr-v-10



What **questions** would you want the robot to be able to answer **about its behaviour related to the task**?

Please provide questions **directly related to what you saw in the video**.

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Question 1:

How important is it to you that a robot you interact with can answer such a question?

- ☐ Not at all important
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- ☐ Extremely important

Question 2:

How important is it to you that a robot you interact with can answer such a question?

- ☐ Not at all important
- ☐ Slightly important
- ☐ Moderately important
- ☐ Very important
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Beyond questions related directly to the video, what type of questions about its task and behaviour do you think a robot like in the video should be able to answer?

Question 1:

How important is it to you that a robot you interact with can answer such a question?

- ☐ Not at all important
- ☐ Slightly important
- ☐ Moderately important
- ☐ Very important
- ☐ Extremely important

[Optional] Question 2:

[Optional] How important is it to you that a robot you interact with can answer such a question?

- ☐ Not at all important
- ☐ Slightly important
- ☐ Moderately important
- ☐ Very important
- ☐ Extremely important

Video 11 Feeding a Cat

Watch this video first before going to the questions.

xr-v-11



What animal is the robot feeding?

- ☐ A dog
- ☐ A hamster
- ☐ A cat

What **questions** would you want the robot to be able to answer **about its behaviour related to the task**?

Please provide questions **directly related to what you saw in the video**.

Importantly, we are looking for questions in response to which the robot has to explain itself and its behaviour. We do not look for general questions about the world, such as "How is the weather?"

Question 1:

How important is it to you that a robot you interact with can answer such a question?

- ☐ Not at all important

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Question 2:

How important is it to you that a robot you interact with can answer such a question?

- ☐ Not at all important
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- ☐ Moderately important
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Beyond questions related directly to the video, what type of questions about its task and behaviour do you think a robot like in the video should be able to answer?

Question 1:

How important is it to you that a robot you interact with can answer such a question?

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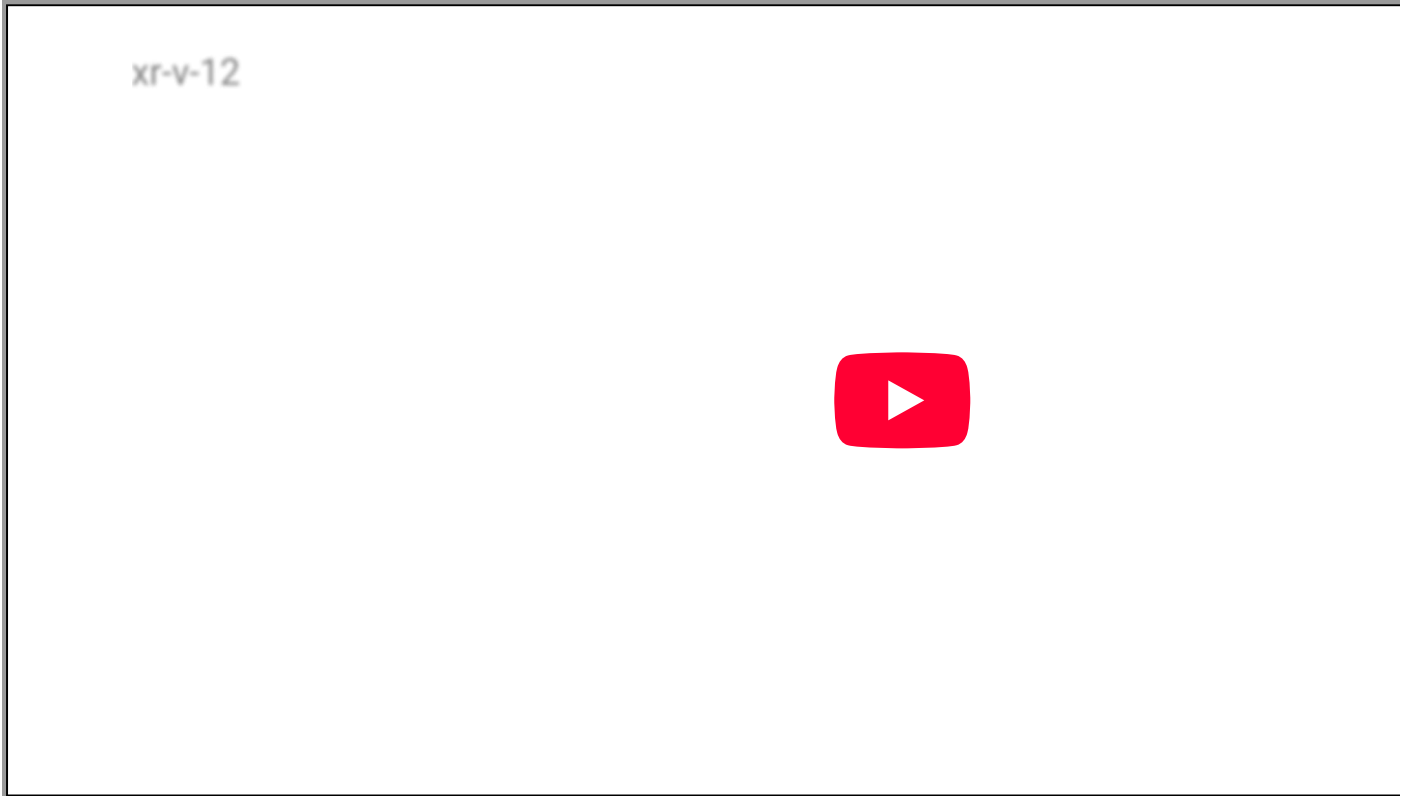
[Optional] Question 2:

[Optional] How important is it to you that a robot you interact with can answer such a question?

- ☐ Not at all important
- ☐ Slightly important
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Video 12 Making Waffles

Watch this video first before going to the questions.



What **questions** would you want the robot to be able to answer **about its behaviour related to the task**?

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Question 1:

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[Optional] Question 2:

[Optional] How important is it to you that a robot you interact with can answer such a question?

- ☐ Not at all important
- ☐ Slightly important
- ☐ Moderately important
- ☐ Very important
- ☐ Extremely important

Video 13 Preparing and Serving Tea

Watch this video first before going to the questions.



What **questions** would you want the robot to be able to answer **about its behaviour related to the task**?

Please provide questions **directly related to what you saw in the video**.

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Question 1:

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Question 2:

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Beyond questions related directly to the video, what type of questions about its task and behaviour do you think a robot like in the video should be able to answer?

Question 1:

How important is it to you that a robot you interact with can answer such a question?

- ☐ Not at all important
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[Optional] How important is it to you that a robot you interact with can answer such a question?

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Video 14 Making an Omlette

Watch this video first before going to the questions.

xr-v-14



What **questions** would you want the robot to be able to answer **about its behaviour related to the task**?

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Question 1:

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How important is it to you that a robot you interact with can answer such a question?

- ☐ Not at all important
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Beyond questions related directly to the video, what type of questions about its task and behaviour do you think a robot like in the video should be able to answer?

Question 1:

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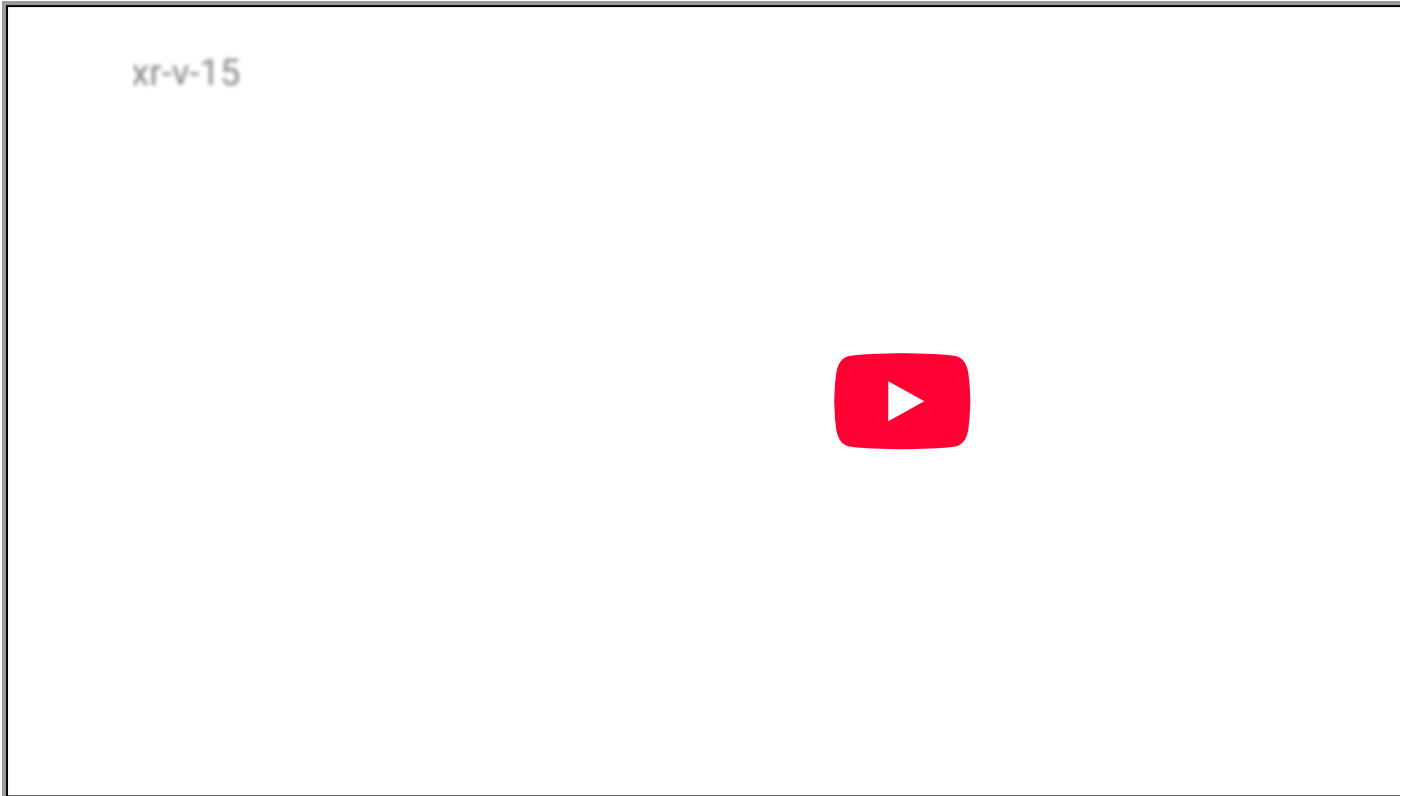
[Optional] Question 2:

[Optional] How important is it to you that a robot you interact with can answer such a question?

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- ☐ Slightly important
- ☐ Moderately important
- ☐ Very important
- ☐ Extremely important

Video 15 Cooking

Watch this video first before going to the questions.



How many pieces of chicken does the robot prepare

- ☐ 1
- ☐ 3
- ☐ 7

What **questions** would you want the robot to be able to answer **about its behaviour related to the task**?

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Question 1:

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Beyond questions related directly to the video, what type of questions about its task and behaviour do you think a robot like in the video should be able to answer?

Question 1:

How important is it to you that a robot you interact with can answer such a question?

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Text Plan 1

Imagine you have a robot at home that takes care of various household tasks. After returning from work, you check what your robot did today. It presents you with the following list.

- 1.** I moved from the living room to the kitchen.
- 2.** In the kitchen, I cleaned the dishes.

3. I moved from the kitchen to the living room.
4. In the living room, I picked up various items and put them back where they belong.
5. In the living room, I cleaned the windows.
6. I returned to my charging station.

What **questions** would you want the robot to be able to answer **about its behaviour related to the task**?

Please provide questions **directly related to the plan above**.

Importantly, we are looking for questions in response to which the robot has to explain itself and its behaviour. We do not look for general questions about the world, such as "How is the weather?"

Question 1:

How important is it to you that a robot you interact with can answer such a question?

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- ☐ Very important
- ☐ Extremely important

Beyond questions related directly to the plan above, what type of questions about its task and behaviour do you think a household robot should be able to answer?

Question 1:

How important is it to you that a robot you interact with can answer such a question?

- ☐ Not at all important
- ☐ Slightly important
- ☐ Moderately important
- ☐ Very important
- ☐ Extremely important

[Optional] Question 2:

[Optional] How important is it to you that a robot you interact with can answer such a question?

- ☐ Not at all important
- ☐ Slightly important

- ☐ Moderately important
- ☐ Very important
- ☐ Extremely important

Text Plan 2

Imagine you have a robot at home that takes care of various household tasks. After returning from work, you check what your robot did today. It presents you with the following list.

1. I answered the door and received your mail.
2. I moved to the bathroom and cleaned the toilet and shower.
3. I moved to the kitchen and cleaned the dishes. I accidentally broke a plate and put it in the trash.
4. I moved to your office and tidied up your desk.

What **questions** would you want the robot to be able to answer **about its behaviour related to the task**?

Please provide questions **directly related to the plan above**.

Importantly, we are looking for questions in response to

which the robot has to explain itself and its behaviour. We do not look for general questions about the world, such as "How is the weather?"

Question 1:

How important is it to you that a robot you interact with can answer such a question?

- ☐ Not at all important
- ☐ Slightly important
- ☐ Moderately important
- ☐ Very important
- ☐ Extremely important

Question 2:

How important is it to you that a robot you interact with

can answer such a question?

- ☐ Not at all important
- ☐ Slightly important
- ☐ Moderately important
- ☐ Very important
- ☐ Extremely important

Beyond questions related directly to the plan above, what type of questions about its task and behaviour do you think a household robot should be able to answer?

Question 1:

How important is it to you that a robot you interact with can answer such a question?

- ☐ Not at all important
- ☐ Slightly important
- ☐ Moderately important
- ☐ Very important
- ☐ Extremely important

[Optional] Question 2:

[Optional] How important is it to you that a robot you interact with can answer such a question?

- ☐ Not at all important
- ☐ Slightly important
- ☐ Moderately important
- ☐ Very important
- ☐ Extremely important

Text Plan 3

Imagine you have a robot at home that takes care of various household tasks. After returning from work, you check what your robot did today. It presents you with the following list.

- 1.** I stored away the leftovers from this morning's breakfast.
- 2.** I mopped the floors in the kitchen and living room.

3. I emptied the recycling bin into the outside container.

4. Nothing else needed to be done today.

What **questions** would you want the robot to be able to answer **about its behaviour related to the task**?

Please provide questions **directly related to the plan above**.

Importantly, we are looking for questions in response to which the robot has to explain itself and its behaviour. We do not look for general questions about the world, such as "How is the weather?"

Question 1:

How important is it to you that a robot you interact with can answer such a question?

- ☐ Not at all important
- ☐ Slightly important
- ☐ Moderately important
- ☐ Very important

☐ Extremely important

Question 2:

How important is it to you that a robot you interact with can answer such a question?

- ☐ Not at all important
- ☐ Slightly important
- ☐ Moderately important
- ☐ Very important
- ☐ Extremely important

Beyond questions related directly to the plan above, what type of questions about its task and behaviour do you think a household robot should be able to answer?

Question 1:

How important is it to you that a robot you interact with can answer such a question?

- ☐ Not at all important
- ☐ Slightly important
- ☐ Moderately important
- ☐ Very important
- ☐ Extremely important

[Optional] Question 2:

[Optional] How important is it to you that a robot you interact with can answer such a question?

- ☐ Not at all important
- ☐ Slightly important
- ☐ Moderately important
- ☐ Very important
- ☐ Extremely important

Text Plan 4

Imagine you have a robot at home that takes care of various household tasks. After returning from work, you check what your robot did today. It presents you with the following list.

1. Today I cleaned the kitchen.
2. First, I emptied the refrigerator.
3. I then cleaned each shelf of the refrigerator.
4. After, I put back the groceries.
5. I noticed the milk was already too old and threw it away.

What **questions** would you want the robot to be able to answer **about its behaviour related to the task**?

Please provide questions **directly related to the plan above**.

Importantly, we are looking for questions in response to which the robot has to explain itself and its behaviour. We do not look for general questions about the world, such

as "How is the weather?"

Question 1:

How important is it to you that a robot you interact with can answer such a question?

- ☐ Not at all important
- ☐ Slightly important
- ☐ Moderately important
- ☐ Very important
- ☐ Extremely important

Question 2:

How important is it to you that a robot you interact with can answer such a question?

- ☐ Not at all important

- ☐ Slightly important
- ☐ Moderately important
- ☐ Very important
- ☐ Extremely important

Beyond questions related directly to the plan above, what type of questions about its task and behaviour do you think a household robot should be able to answer?

Question 1:

How important is it to you that a robot you interact with can answer such a question?

- ☐ Not at all important
- ☐ Slightly important
- ☐ Moderately important
- ☐ Very important
- ☐ Extremely important

[Optional] Question 2:

[Optional] How important is it to you that a robot you interact with can answer such a question?

- ☐ Not at all important
- ☐ Slightly important
- ☐ Moderately important
- ☐ Very important
- ☐ Extremely important

Text Plan 5

Imagine you have a robot at home that takes care of various household tasks. After returning from work, you check what your robot did today. It presents you with the following list.

- 1.** I moved to the garden area.
- 2.** I removed various weeds from the pathways.
- 3.** I watered the plants.
- 4.** I put away any scattered tools, storing them in the shed.
- 5.** After, I returned to the living room.

What **questions** would you want the robot to be able to answer **about its behaviour related to the task**?

Please provide questions **directly related to the plan above**.

Importantly, we are looking for questions in response to which the robot has to explain itself and its behaviour. We do not look for general questions about the world, such as "How is the weather?"

Question 1:

How important is it to you that a robot you interact with can answer such a question?

- ☐ Not at all important
- ☐ Slightly important
- ☐ Moderately important
- ☐ Very important
- ☐ Extremely important

Question 2:

How important is it to you that a robot you interact with can answer such a question?

- ☐ Not at all important
- ☐ Slightly important
- ☐ Moderately important
- ☐ Very important
- ☐ Extremely important

Beyond questions related directly to the plan above, what type of questions about its task and behaviour do you think a household robot should be able to answer?

Question 1:

How important is it to you that a robot you interact with can answer such a question?

- ☐ Not at all important
- ☐ Slightly important
- ☐ Moderately important
- ☐ Very important
- ☐ Extremely important

[Optional] Question 2:

[Optional] How important is it to you that a robot you interact with can answer such a question?

- ☐ Not at all important
- ☐ Slightly important
- ☐ Moderately important
- ☐ Very important
- ☐ Extremely important

Imagine you have a robot at home that takes care of various household tasks. After returning from work, you check what your robot did today. It presents you with the following list.

1. I unloaded your shopping bags in the kitchen.
2. I sorted all food items into the fridge and pantry.
3. I went to the bedroom and changed the bed sheets.
4. I put the old bed sheets into the washing machine.

What **questions** would you want the robot to be able to answer **about its behaviour related to the task**?

Please provide questions **directly related to the plan above**.

Importantly, we are looking for questions in response to which the robot has to explain itself and its behaviour. We do not look for general questions about the world, such as "How is the weather?"

Question 1:

How important is it to you that a robot you interact with can answer such a question?

- ☐ Not at all important
- ☐ Slightly important
- ☐ Moderately important
- ☐ Very important
- ☐ Extremely important

Question 2:

How important is it to you that a robot you interact with can answer such a question?

- ☐ Not at all important
- ☐ Slightly important
- ☐ Moderately important
- ☐ Very important
- ☐ Extremely important

Beyond questions related directly to the plan above, what type of questions about its task and behaviour do you think a household robot should be able to answer?

Question 1:

How important is it to you that a robot you interact with can answer such a question?

- ☐ Not at all important
- ☐ Slightly important
- ☐ Moderately important
- ☐ Very important
- ☐ Extremely important

[Optional] Question 2:

[Optional] How important is it to you that a robot you interact with can answer such a question?

- ☐ Not at all important
- ☐ Slightly important
- ☐ Moderately important
- ☐ Very important
- ☐ Extremely important

Text Plan 7

Imagine you have a robot at home that takes care of various household tasks. After returning from work, you check what your robot did today. It presents you with the following list.

1. I checked the fridge.
2. I placed a grocery order based on what was missing.
3. I moved to the kids' room and tidied up.
4. I put all the toys back into their place, except those I could not reach.

What **questions** would you want the robot to be able to answer **about its behaviour related to the task**?

Please provide questions **directly related to the plan above**.

Importantly, we are looking for questions in response to which the robot has to explain itself and its behaviour. We do not look for general questions about the world, such as "How is the weather?"

Question 1:

How important is it to you that a robot you interact with can answer such a question?

- ☐ Not at all important
- ☐ Slightly important
- ☐ Moderately important
- ☐ Very important
- ☐ Extremely important

Question 2:

How important is it to you that a robot you interact with can answer such a question?

- ☐ Not at all important
- ☐ Slightly important
- ☐ Moderately important
- ☐ Very important
- ☐ Extremely important

Beyond questions related directly to the plan above, what type of questions about its task and behaviour do you think a household robot should be able to answer?

Question 1:

How important is it to you that a robot you interact with can answer such a question?

- ☐ Not at all important

- ☐ Slightly important
- ☐ Moderately important
- ☐ Very important
- ☐ Extremely important

[Optional] Question 2:

[Optional] How important is it to you that a robot you interact with can answer such a question?

- ☐ Not at all important
- ☐ Slightly important
- ☐ Moderately important
- ☐ Very important
- ☐ Extremely important

Demographic Data

What best describes your ethnic origin?

- ☐ White
- ☐ Black/African/Caribbean

- ☐ Asian (Indian, Pakistani, Bangladeshi, Chinese, any other Asian background)
- ☐ Mixed two or more ethnic groups
- ☐ Other (Arab or any others)
- ☐ Prefer not to say

What country do you live in?

What is your gender?

- ☐ Male
- ☐ Female
- ☐ Non-binary / third gender
- ☐ Prefer not to say

What is your age?

I studied computer science/engineering/robotics

☐ Yes

☐ No

I already programmed a robot

☐ Yes

☐ No

I already interacted with a robot in real life

☐ Yes

☐ No

How experienced are you with robots?

1 (no experience)	2	3	4	5	6	7 (a lot of experience)
<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Attitudes Towards Robots

You are nearly done! Lastly, we want to know your general attitudes towards robots.

I can trust persons and organizations related to development of robots

1	2	3	4	5	6	7
(Completely Disagree)						(Completely Agree)
<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Persons and organizations related to development of robots will consider the needs, thoughts and feelings of their users

1	2	3	4	5	6	7
(Completely Disagree)						(Completely Agree)
<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

I can trust a robot

1	2	3	4	5	6	7
(Completely Disagree)						(Completely Agree)
<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

I would feel relaxed talking with a robot

1 (Completely Disagree)	2	3	4	5	6	7 (Completely Agree)
<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

If robots had emotions, I would be able to befriend them

1 (Completely Disagree)	2	3	4	5	6	7 (Completely Agree)
<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Robots are necessary because they can do jobs that are too hard or too dangerous for people

1 (Completely Disagree)	2	3	4	5	6	7 (Completely Agree)
<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Robots can make life easier

1 (Completely Disagree)	2	3	4	5	6	7 (Completely Agree)
<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Assigning routine tasks to robots lets people do more

meaningful tasks

1 2 3 4 5 6 7
(Completely Disagree) (Completely Agree)

Dangerous tasks should primarily be given to robots

1 2 3 4 5 6 7
(Completely Disagree) (Completely Agree)

Here, answer with "1 (Completely Disagree)". This is an attention check.

1 2 3 4 5 6 7
(Completely Disagree) (Completely Agree)

Robots are a good thing for society, because they help people

1 2 3 4 5 6 7
(Completely Disagree) (Completely Agree)

Final Comments

[Optional] Here, you can add any comments you want to leave us regarding the survey design or study topic:

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