

How would you design a social robot?



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A year-long co-design methodology designing *with* (not *for*) older adults

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WHY?

As more and more robotic systems are being developed for the home, we must understand how users desire to interact with robots.

SO WHAT?

We've heard a...

- ♦ desire to be involved in programming robots, and
- ♦ need for methods that support emotional engagement

Older adults desired the following capabilities:

- ♦ reminders & suggestions
- ♦ cognitive support
- ♦ message & video chatting
- ♦ personalization
- ♦ robot relationship
- ♦ autonomy & transparency
- ♦ security & privacy

Older adults highlighted the following applications:

- ♦ positive psychology
- ♦ lifelong learning

THE HOW

28 older adults engaged in all 7 stages of the study

incorporating several methodologies promotes multiple levels of engagement from participants

reveal priorities and desired capabilities for social robots

discover initial conceptions and desired functions of social robots and how they change with long-term experience

work with older adults as co-designers, generating guidelines along side researchers

understand how older adults interact & live with robots

empower older adults to program robots to embody desired functions

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1. initial interviews
 - storytelling
 - decision modelling
 - binary choices
2. design art-based session
3. robot hosting
4. robot debrief
5. rapid robot prototyping
6. design guideline generation session
7. reflection interview