Designing Home Care Reminder Systems: Lessons Learned Through Co-Design with Older Users

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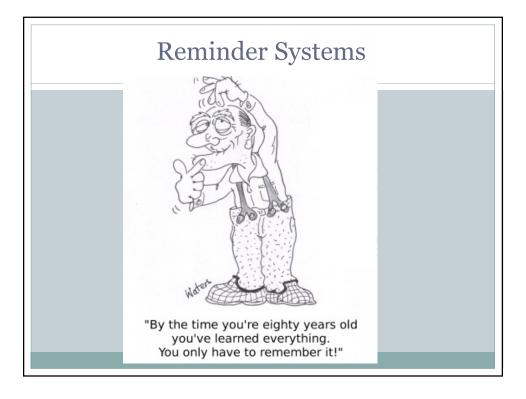
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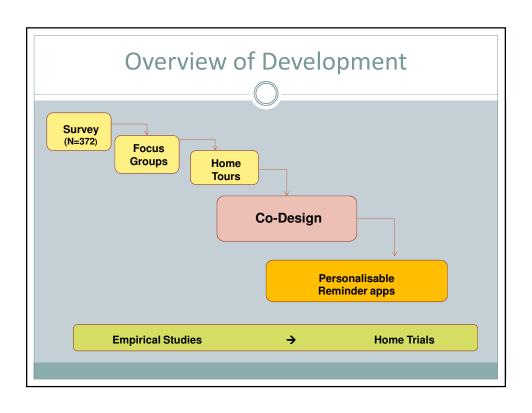






Understanding the Reminder Design Space

- · What do people need reminders for?
- Why do people forget?
- How do people currently remember?
- How would users would like to receive reminders?



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- M.R. McGee-Lennon, M. Wolters, S. Brewster, "User Centered Design of Multimodal Reminders for Assistive Living". Proc. ACM CHI 2011: Vancouver, Canada.
- 2. M.R. McGee-Lennon and M. K. Wolters, "Desinging Reminders for the Home: The Role of Home Tours". In Proc. INCLUDE, 2011, London, UK.
- 3. M. K. Wolters and M. R. McGee-Lennon, "Designing usable and acceptable reminders for the home", In Proc. AAATE, 2010.

Some Findings

Categorisng Reminders People Want	
Main Categories	Popular Examples
Environmental controls	Closing windows and doors
Daily chores	Unloading the washing machine
Weekly chores	Putting out the bins
Less frequent events	Appointments
Objects	Keys, Bus passes (where / taking them)
Care regime	Taking Medication







Configuration/Personalisation

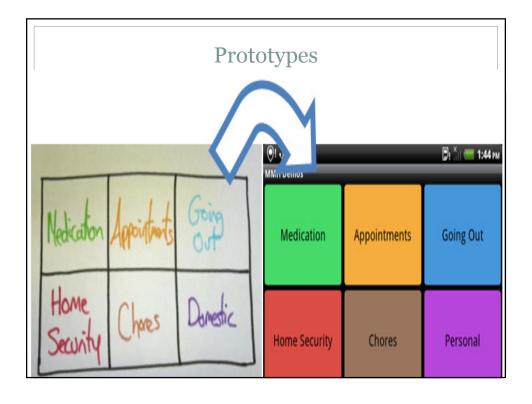
How do people want to set reminders?

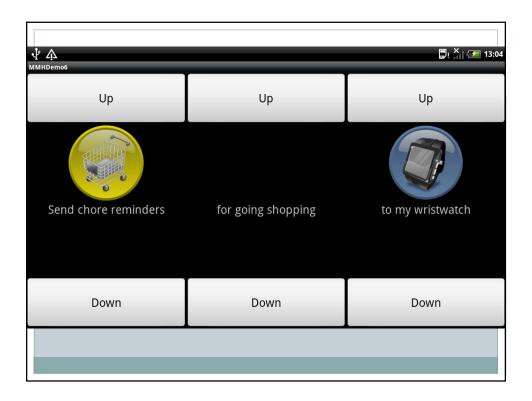
How do people want to change reminders later as they use the system in practice?

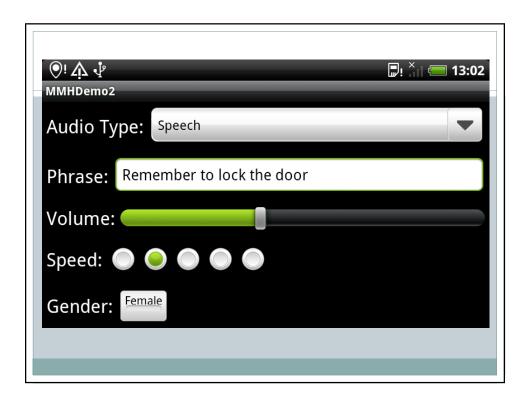
Co-Design Sessions

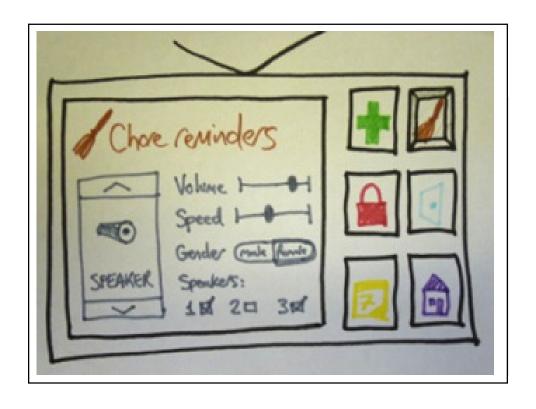
Design Sessions

- 4 x 90 min sessions with **older users**
 - o (N=3, N=2, N=6, N=4)
- 2 x 90 min sessions with users with sensory impairments
 - N=7 (Hearing Impaired), N=3 (Visually Impaired)
- > Evaluation of existing prototypes
- > Co-design and re-design



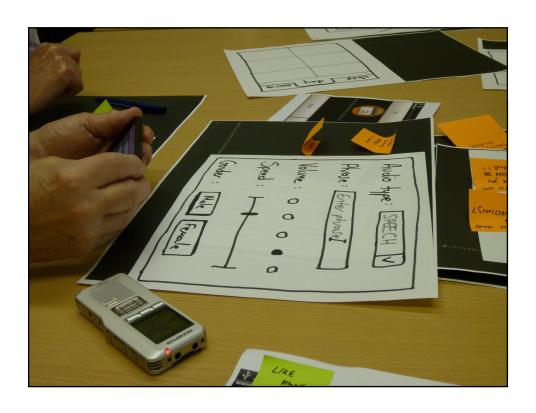








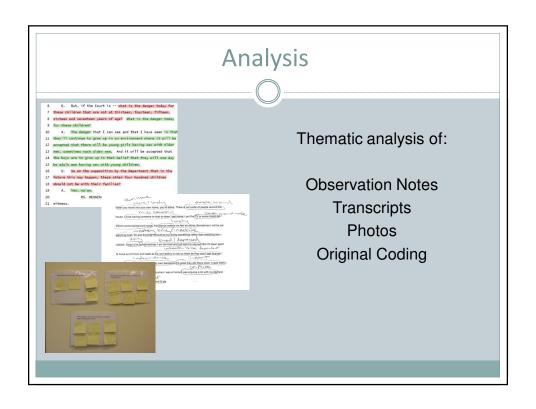












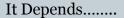


How Should Reminders Be Delivered?

It Depends......

- o personal preference
- o impairments and abilities
- o available devices
- o importance of reminder
- o social context
- Provide Choice

How Should Reminders Be Configured?



- Technical ability
- System decisions
- User decisions
- o Behaviours and choices over time
- Recommendations
- Provide personalisation options

Co-design as a Process

- Easier to recruit users
- Easier to engage users
- · Live Coding is useful
- Prototypes provide focus and freedom
- Allows evaluation and design
- · Can increase ownership and buy in

