Canvas #03/10 Canvases:

DESIGN GUIDELINES

SOCIAL ROBOT CO-DESIGN CANVASES

What things are important to consider in the robot's design?



Advantage guidelines

What advantages can the robotic solution have? Think back to what you defined in the solution space canvas.

Ethical guidelines

What ethical considerations does the robot have? Think back to what you defined in the ethics canvas.

ROBOT DIMENSIONS

Environment guidelines

What should the robot's context be like? For example:

- If users are especially vulnerable, should it optimize for support?
- $\bullet\,$ If the robot is part of a strict process, should it optimize for efficiency and security?

Form guidelines

What guides the design of the robot's outward qualities? For example:

- Should the robot be designed to appear especially approachable, or more industrial?
- Should it be simple, or detailed?

Interaction guidelines

What guides the design of interaction? For example:

- Is the interaction multimodal, or is one modality optimized for efficiency?
- Should the user feel empowered and lead the interaction, or does the robot provide safety via leadership?
- Is the goal of the interaction to complete a task, or explore?

Behaviour guidelines

What guides the design of the robot's behaviour? For example:

- Should behaviour be simple, or sensitive to context?
- Does the robot have internal drivers, or does it react to external stimuli?
- · Does the robot have social skills?



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