

ROBOT DESIGN MVP

DESIGNING A SOCIAL ROBOT

It's time to design your robot! Remember the guidelines you defined.

Where and when

What place?
What time of day?
Does the place or time change?

Robot's role

Is the robot a friend? Teacher? Helper?
Something else?

Draw a picture

What does the robot look like?
Is it attached to something?
Does it move around?
Can its appearance be modified?

Personality

Does the robot have specific characteristics?
Does it have emotional states, or needs?

Context-based behaviour

What external and environmental factors affect behaviour?
What data is used to adapt to context?

Connection to systems

Is the robot connected to external systems, such as software, databases, or other robots?
How does it use these systems?

Interaction modalities

What modalities are inputs to the robot? What modalities does the robot output?

INPUT

☐ voice

☐ sounds

☐ gestures

☐ movement

☐ touch

☐ smell

☐ facial expressions

☐ screens

☐ lights

☐ other _____

OUTPUT

☐ voice

☐ sounds

☐ gestures

☐ movement

☐ touch

☐ smell

☐ facial expressions

☐ screens

☐ lights

☐ other _____

Interaction flow

Describe the most important interaction of the robot.
Note: only fill the bottom row if your robot is teleoperated.

| | | | |
|---------------------------|--------|--------|-------|
| | BEFORE | DURING | AFTER |
| ROBOT | | | |
| | | | |
| ROBOT OPERATOR (optional) | | | |

