

INTERACTION

DESIGNING A SOCIAL ROBOT

How does the robot interact with the user?
You can use the “Experience Flow” canvas to dive deeper into this topic.

Interaction modalities

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

INPUT			OUTPUT		
<input type="checkbox"/> voice	<input type="checkbox"/> movement	<input type="checkbox"/> screens	<input type="checkbox"/> voice	<input type="checkbox"/> movement	<input type="checkbox"/> screens
<input type="checkbox"/> sounds	<input type="checkbox"/> touch	<input type="checkbox"/> lights	<input type="checkbox"/> sounds	<input type="checkbox"/> touch	<input type="checkbox"/> lights
<input type="checkbox"/> gestures	<input type="checkbox"/> smell	<input type="checkbox"/> other _____	<input type="checkbox"/> gestures	<input type="checkbox"/> smell	<input type="checkbox"/> other _____
	<input type="checkbox"/> facial expressions _____			<input type="checkbox"/> facial expressions _____	

Interaction flow

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

	BEFORE	DURING	AFTER
USER			
ROBOT			
ROBOT OPERATOR (optional)			

Situation flow

How defined is the situation where the interaction takes place?
Does the user always enter and exit at the same point?

predefinedflexiblefreestyle

Leadership

Who initiates the interaction? Who determines what happens next?

robot-ledmutual / alternateuser-led


Goal

What is the user’s goal in the interaction? What describes the interaction?

task completion / informativebothexplorative

Robot’s name

Does the robot have a name which is used during interaction?

 **TRADE-OFF:**
A robot with a name, creates more emotional bond.

