

# ETHICAL CONSIDERATIONS

## SOCIAL ROBOT CO-DESIGN CANVASES

Consider potential ethical problems, and potential solutions – both from the user's and robot's perspectives.  
Consider the boxes to be guidelines: you don't need to fill each one.

### Physical safety

Machines can pinch or crush the user. How is this mitigated?

PROBLEM	USER	SOLUTION
	ROBOT	

### Data security

Is the robot in a unique data collection position? How is the user's data protected?

PROBLEM	USER	SOLUTION
	ROBOT	

### Transparency

How does the robot share an accurate perception of its abilities, intentions and constraints, so the user can evaluate their trust in it?

PROBLEM	USER	SOLUTION
	ROBOT	

### Equality across users

Robots' algorithms can be biased. A robot's appearance could reinforce harmful stereotypes. What are potential issues?

PROBLEM	USER	SOLUTION
	ROBOT	

### Emotional consideration

People have been shown to form emotional attachments to robots, as if they were alive. Is this a potential problem?

PROBLEM	USER	SOLUTION
	ROBOT	

### Behaviour enforcement

People could transfer their inappropriate behaviour, such as rudeness, from robots to humans. How is this mitigated?

PROBLEM	USER	SOLUTION
	ROBOT	



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The Social Robot Co-Design Canvases can be found at <https://osf.io/jg2t8/>

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