

ShiverBot

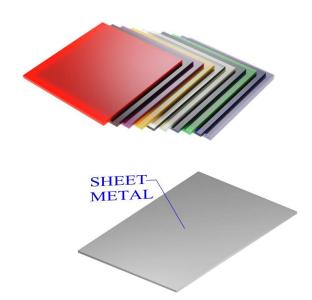
by Guobotics (Adella Guo, Rachel Nakamura, Alan Qiu)

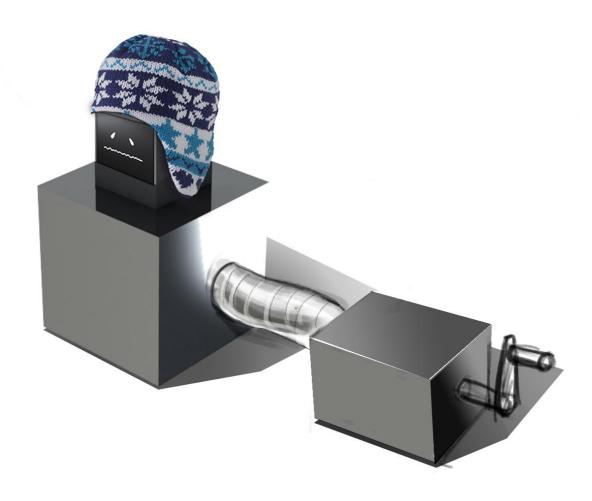
Why ShiverBot?

- Shivering robot vs. social media robot
 - a. Physical interaction vs. digital presence/identity
- Lack of literature on robots eliciting empathy through biological functions
- Research question:
 - a. How long will people stay to "warm" a robot if we imbue the robot with the human characteristic of shivering (versus not shivering)?
- Independent Variable:
 - a. Three types of voices:
 - Robot (voiceover)
 - Female (text-to-speech)
 - Male (text to speech)

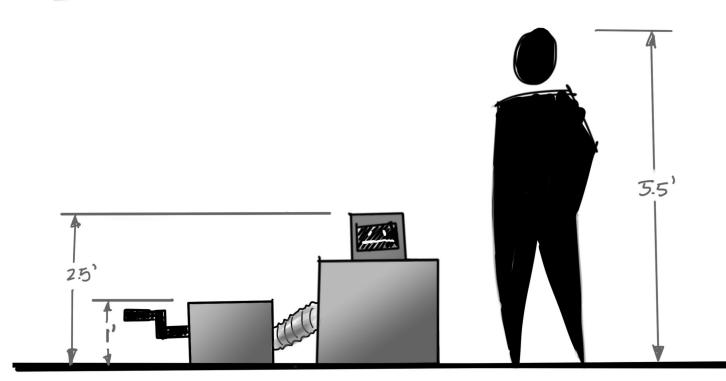
Appearance

rylic + sheet metal



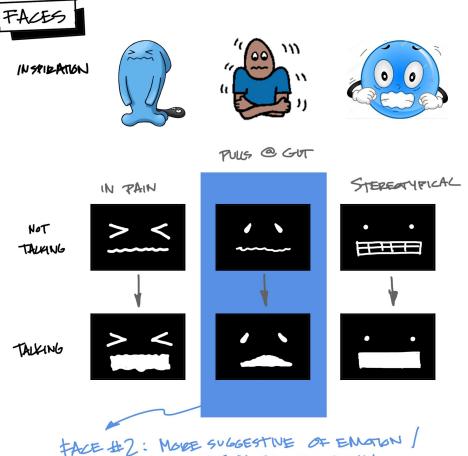


SIZE CONTARISON



Appearance

- Facial Expression
 - How do we portray cold? Shivering?
 - How do we elicit empathy
 - Talking
 - In need of help, helpless



FACE #2: MOVE SUGGESTIVE OF EMOTION /

Build

iPad (face)

Smartphone (audio & communication)

• 2 Speakers (bluetooth or wired)





Build (part 2)

- Crank (\$30)
- Aluminum heat duct
- Metal Chain
- Hook
- Lock







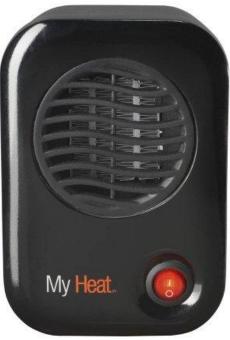




Build (part 3)

- Servo motors (shivering)
- Heater

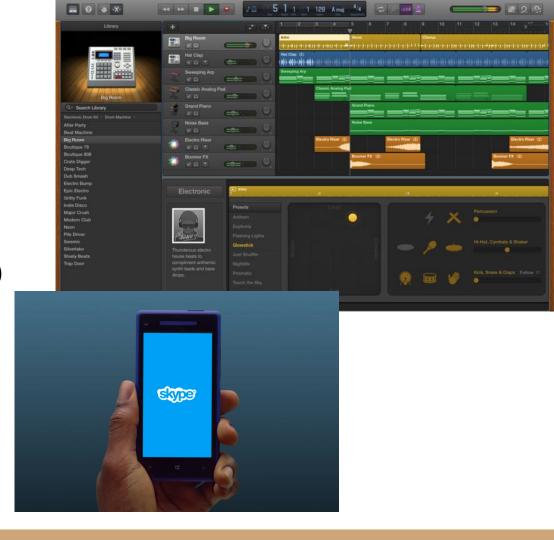




Operation

Wizard of Oz

- Face (iPad)
- Smartphones
- Voice Changer (Garageband)
- Text-to-Speech
- Gear/generator noise



Dialogue

Contact Initiation

"Sorry! Excuse me?"

If user gets closer:

"I wouldn't ask unless I really needed the help, but can you please turn that crank?"

Backstory

"Really sorry, my owner has been gone for a while, he said he'd be back soon."

"Is it chilly out here or is it just me?"

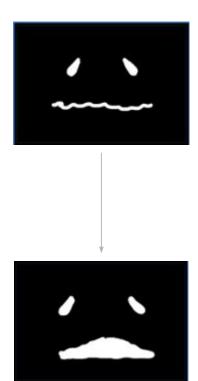
Possible User Responses:

"Is that good?" -Sorry yes

"What is this for?" - If you could just keep me warmer a little longer?

"I'm sorry I have to go" - Really? [Contact Termination]

"Do I just keep cranking?" - I'm sorry just a little bit longer please.



Dialogue

Elicit empathy

- How has your day been? Has anything exciting happened? Why why not?
- Are you looking forward to anything fun? If you can be anywhere right now where would you be?
- What do you like to do when you're not working?
- What type of music are you into?
- Have you read any good books recently?
- Are you a cat person or a dog person?
- Coffee or tea?
- Do you cook?

Contact Termination

"Thank you so much! Sorry for troubling you! What's your name, by the way? User says name

"Well, it was really nice to meet you, [Name]. Take care of yourself, okay?"

Situating the Robot

Outside of Purnell

(entrance of Pausch Bridge)

- Intersection of many fields
 - Greater diversity of users
 - Larger number of users

