

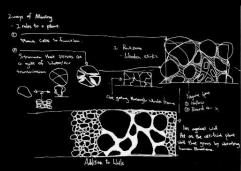
Concept

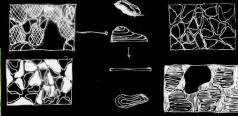
Nowadays, the development of technology encouraged more human communications without physical interactions, making face to face conversations harder and more precious. In an effort to improve in person communications and social engagements, I created this structure that functions as an extension to walls.

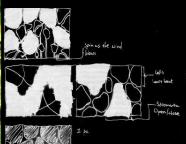


Stomata

Acts as the mouth of plants, A stoma can be influenced by many factors, such as the time of the day, humidity, and temperature of its surrounding.

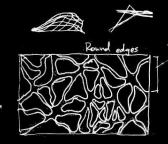






Just like plants, human can also be easily affected by those around them. Instead of by people, I proposed to find out whether plants' actions of "breathing" can also affect people.

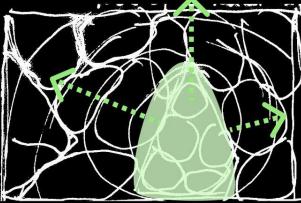




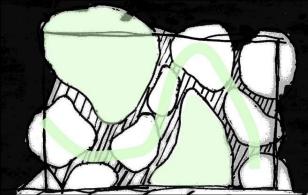
An Organic Shape

Asymmetrical forms that reveal the fluidity and irregularity of the beautiful natural world.

Ideas



Rhythm created by patterns spreading from a center, imitating a plant growing.



Two centers that attract their surroundings instead of spreading out.

Movement

Circuiting

Power Source 12v input for motor 5v input for Arduino and Motor Driver

Camera

Code Identifies emotions

Sends signals to Arduino move motors

Motor Controls

Direction/Speed Driver

Spins the spools to Motor open/close the nets

Opens in response Wall to people

Framing



Experimenting with elasticity of strings

Netting



Cutting out frames from plywood with jigsaw



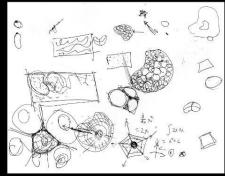
Criss Cross around the edge with thick elastic



Crochet using slip knots around the edge and an strings. Too much tension inner circle. Too empty.



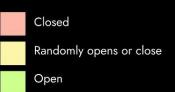
Fishnets with multiple layers. Strings open and close depending on their own elasticity.

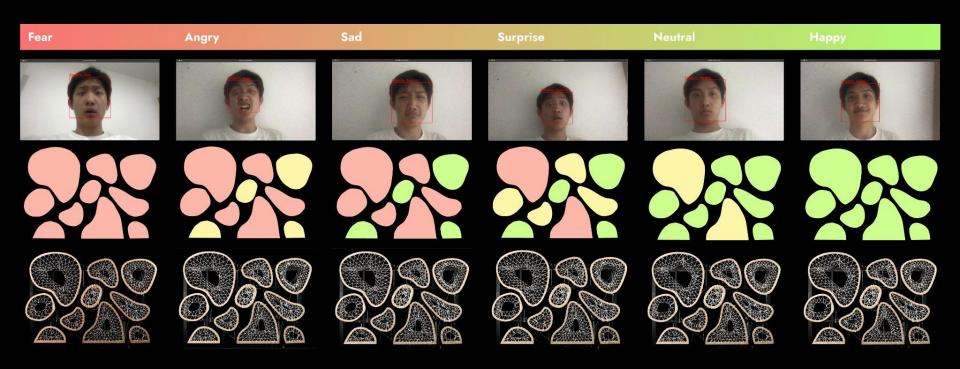


Sketches on ways the nets move

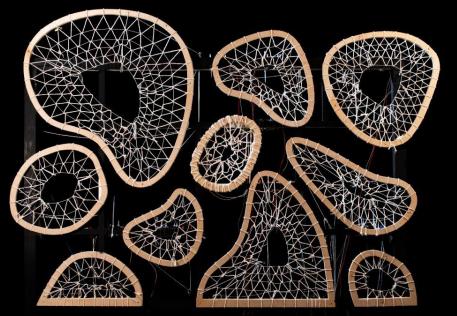
Movement

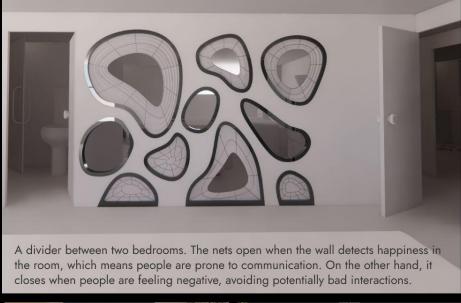
The algorithm has 6 phases, each representing a different emotion. Depending on the emotions that the camera detects, the code determines how much the wall will open.





In The House











In A Tunnel









