FALSE REAL

We've all seen the Truman show through God's eyes, maybe not to satisfy anything, I just like the pleasure of watching others fall prey to falsehood and deception, and being able to manipulate other people's lives at the same time.

But did it ever occur to you that our life is the Truman Show? Whether you for life and smile, for the position and camouflage, for the image and bondage, for the people set and limit.

FALSE REAL is a heart device whose body is assembled and pieced together from a variety of materials; The sensor lamp is placed inside the device, and the iron piece hanging around is a real-time portrait after code processing, which represents the completely different selves that we show when facing different people in different environments. When the distance between the visitors and the heart is close, the atmosphere light flashes faster, that is, the heart beats faster; It slows down as you move away.

The purpose of the installation is to trigger people's thinking about society and life. Thinking about the infrequent reality in the false world and the false surrounding in the real world.

Video Link:
https://youtu.be/BuWT-vlU1mk

INSPIRATION

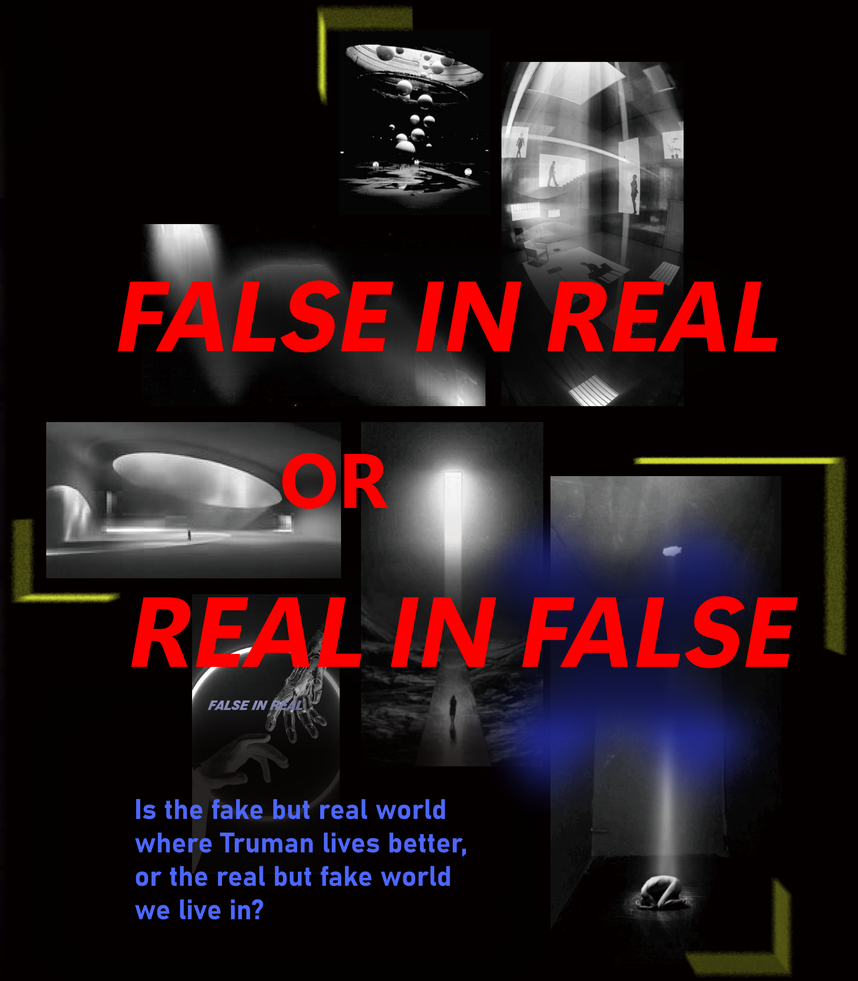
The director said: "In the entire Truman world, only Truman is real, and the rest are fake."

He depicted a utopia, using an extreme life form, to uncover people's skepticism about reality

TRUMAN SHOW

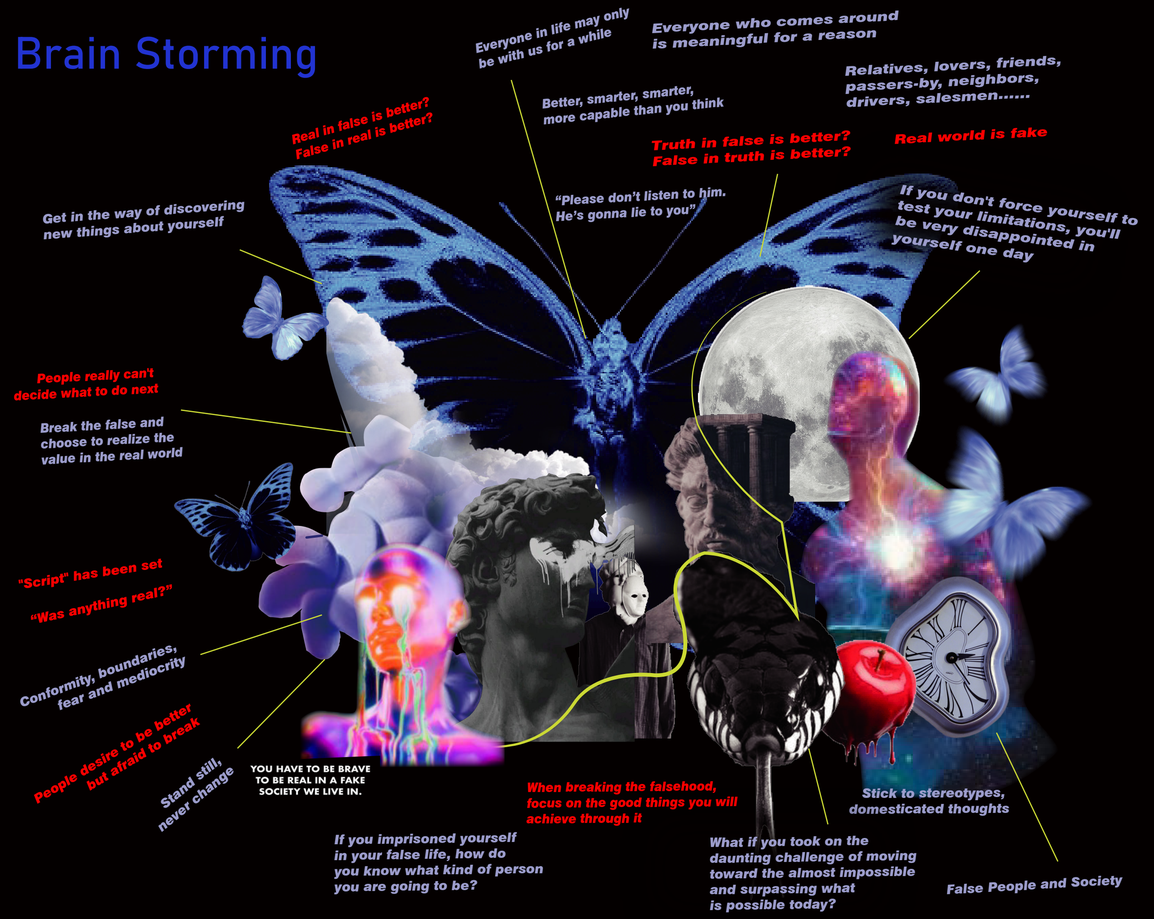
When someone publishes a theory that the world is really just one giant running program, and everyone lives inside a virtual system, does that make sense to you?

We can only wait for Truman to tear apart the truth and leave the world that controls him and plays him. There's a little bit of us in Truman. **We have been manipulated by life, have denounced the false human nature at a certain time, we will also feel deeply helpless from time to time, as if a life in a certain force control can not break free, but we can not have scruples to tear all the illusion.**



Is the fake but real world where Truman lives better, or the real but fake world we live in?

Brain Storming



USER INTERVIEW

--What is your opinion about public persona?

"I think ***public persona is necessary.*** Sometimes I'm more emotional, but I won't expose my emotions to others.
No one really cares about you.

I don't think I have a public persona. I think that's cheating. If you don't want to live with a mask, it's totally fine."

"I do have a public persona.
Say what needs to be said to the exact person.
The better friends you have with your friends, the more you will show yourself."

"I have a public persona,my public persona has formed who I am now, and I also ***enjoy my current public persona*** very much.
And even if I want to live in a different way, it is difficult to become a completely second public persona."

"Independence is my public persona.But in fact, the core of my soul is more homely.So the two are in conflict.
Public persona is a kind of false, but mine is a benign falsehood.

Summary:

Most people feel that public persona is a kind of deception, a kind of falsehood, or a false mask that they put on themselves for some purpose and reason. But everyone has no choice.

In today's society, they can't take off their masks. Showing their real faces will only hurt themselves.

CONCEPT DEVELOPMENT

FALSE?
REAL?
How to choose?

Concretization

Are these feelings real or false?

FALSE IN REAL

passer
break the hypocrisy
challenge everything
false heart
fear of breakthrough
a certain future
wearing a mask

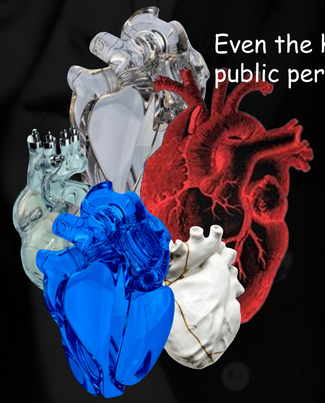
Inference

Everyone is false, everyone has public persona?

false society

Abstraction

Even the heart has public persona?



REAL IN FALSE

true friend
fake friend
lose yourself

Patchwork hearts?
Patchwork person?

neighbor

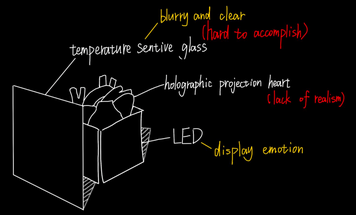
fear of change
dare to break through
degenerate into hypocrisy
controlled marionette
domesticated thought

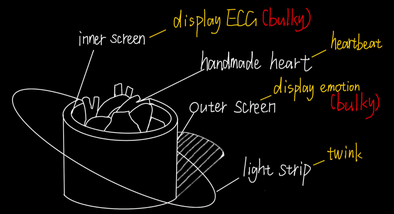
achieve beauty
accept the truth

SKETCHES

Concept A:

The heart will change the beating frequency according to the distance.
At the same time, the glass also changes the clarity with reference to the distance.
The LED screen displays the participant's processed image



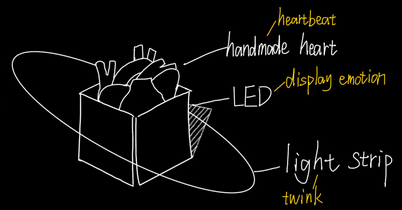


Concept B:

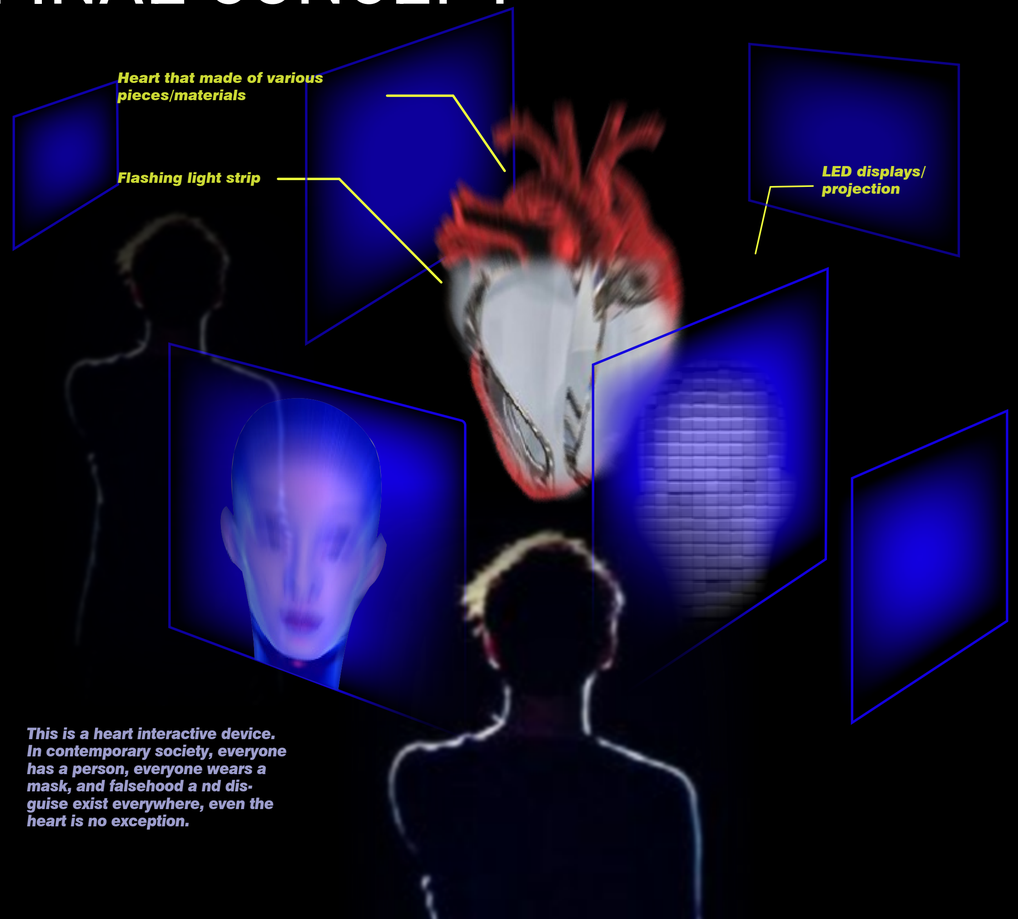
The heart changes its beating frequency according to distance.
Instead of LEDs, the outer screen displays the participant's image and the inner screen displays an electrocardiogram based on the heart rate.

Concept C:

The heart changes its beating frequency according to distance.
An LED screen displays the participant's processed image.
Light strips as decoration, emitting different colors of light



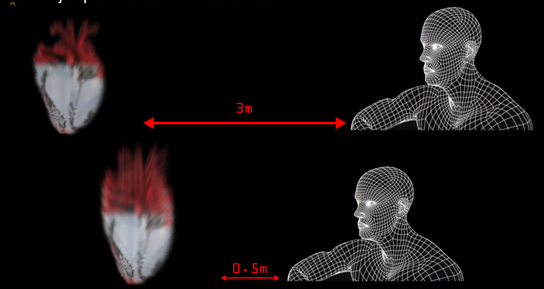
FINAL CONCEPT



This is a heart interactive device. In contemporary society, everyone has a person, everyone wears a mask, and falsehood a nd disguise exist everywhere, even the heart is no exception.

Interaction 1:Distance

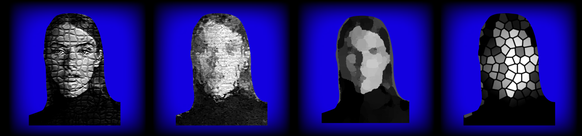
When the distance between the participant and the device was less than three meters, the heartbeat began to vary with distance, and the closer the participant was to the device, the faster the heartbeat. Reached the maximum value of the jump at a distance of half a meter



Interaction 2:Image

When the participant is only half a meter away from the device, the camera in front of the device will shoot the participant.
The photo after various processing effects will then be displayed on the LED display

Processed photos:



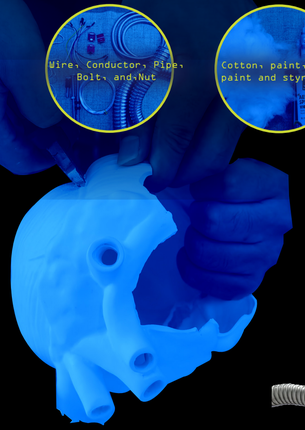
PRODUCTION PROCESS

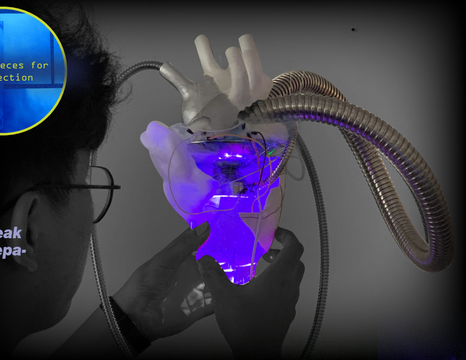
Wire, Conductor, Pipe, Bolt, and Nut

Cotton, paint, spray paint and styrofoam

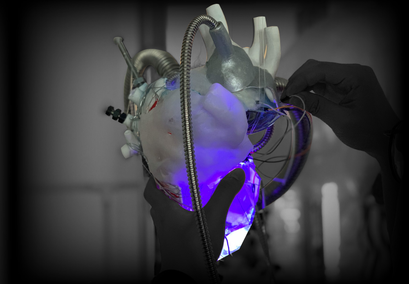
Ambient Light

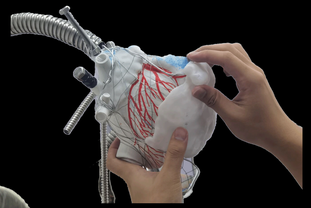
Iron pieces for projection

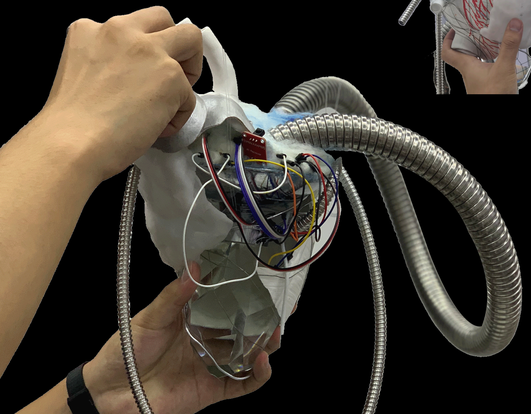




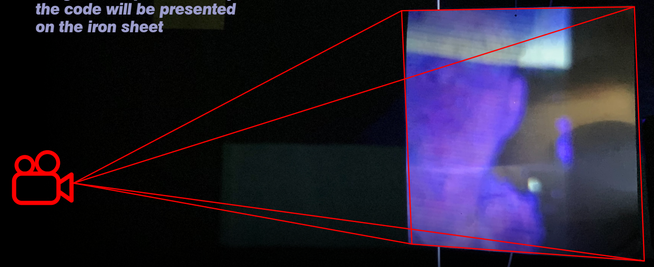
Using pliers, hammers, nails, etc., break the intact heart into four pieces in preparation for post-processing

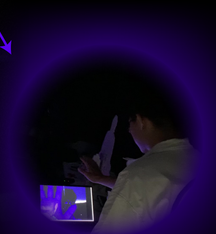






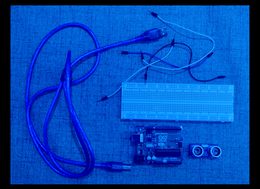
Use the iron sheet for projection, and the real-time image effect processed by the code will be presented on the iron sheet

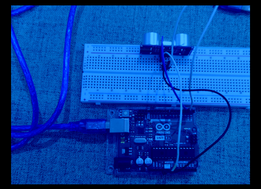




TECHNOLOGY EXPLORATION

```
void setup() {
  size(400, 300);
  background(0);
  // Load and play the video in a loop
  movie = new Movie(this, "quick.wav");
  movie.loop();
  String portName = Serial.list()[0];
  myPort = new Serial(this, portName, 9600);
}
```





```
void setup() {

Serial . begin (9600);
pinMode (TrigPin , OUTPUT);
pinMode (EchoPin , INPUT);
}
void loop(){

digitalWrite ( TrigPin ,0);
delay (2);
digitalWrite ( TrigPin ,1);
delay (10);
digitalWrite ( TrigPin ,0);
okay_cm = float ( pulseIn (

int pencil = okay_cm ;
Serial.write(pencil);
delay(20);
}
```

Arduino Uno board + ultrasonic rangefinder

Program Settings: First set the input pin, output pin, confirm the digital input mode
Ultrasonic rangefinder working principle:
The rangefinder detects and reads the digital information of a distance, and sends it to the serial port for data communication with processing after rounding

Processing:

Read the library file, read the serial port communication list, identify the required communication code, list list
Set up a library file to import the video, set up variables to store and identify the video, set up video reading events, and make variables to read the video
Digital information sent by Arduino is transmitted through serial communication, and variable storage information is established

Judge the logic of digital information
When the distance is greater than 0 and less than 100, the video is played

```
if (val >0 && val<100 ) {
 if (movie.available() == true) {
 movie.read();
}
// If the serial value is 0,
   image(movie, 0, 0, width, height);
}
else {
 println("connection failed");
```

Codes for Video Effects

Effect1:Black and white

```
for(y = 0; y < video.height; y++)
{
  for(x = 0; x < video.width; x++)
  {
    index = (x + (y * video.width)) * 4
    r = video.pixels[index + 0]
    g = video.pixels[index + 1]
    b = video.pixels[index + 2]
    bright = (r + g + b)/3
    threshold = 100
    if(bright > threshold)
```

Effect2:Ghosting

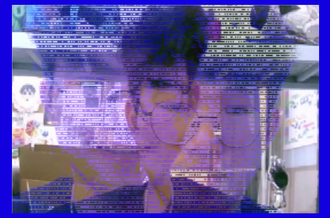
```
function draw() {
  background(0);
  //image(img, 0, 0);
  img.loadPixels();
  for (var y = 0; y < img.height; y += 5) {
    for (var x = 0; x < img.width; x += 5) {
      //var c = img.get(x, y);
      //Fast but complicated
      var c = img.pixels[(y * img.width + x) * 4];
      //fill(c);
      noFill(c);
      stroke(c);
      arc(x, y, 100, 25, 10, 40);
```

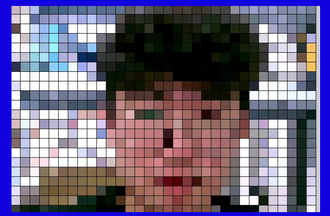
Effect3:Time lapse

```
function setupScene() {
  noLoop();
  let start = millis();
  let delay = 1000;
  setTimeout(() => {
    showMessage("Stand clear.")
  }, delay);
  setTimeout(() => {
    loop();
    showMessage("3");
  }, delay * 2);
```

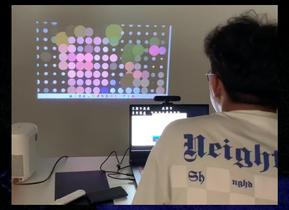
```
function showMessage(message) {
  clear();
  fill(0, 0, 0);
  rect(0, 0, width, height);
  textSize(50);
  let messageWidth = textWidth(message);
  //draw and center the text
  fill(255);
  text(message, (width / 2) - (messageWidth / 2), height / 2);
}
```

```
  copy(bkgd, 0, 0, bkgd.width, bkgd.height, 0, 0, round((video.width / video.height) * height), height);
  replace.updatePixels();
  copy(replace, 0, 0, replace.width, replace.height, 0, 0, round((video.width / video.height) * height), he
}

function mousePressed() {
  initialize();
}

function initialize() {
  replace.copy(video, 0, 0, video.width, video.height, 0, 0, video.width, video.height);
  bkgd.copy(video, 0, 0, video.width, video.height, 0, 0, video.width, video.height);
```



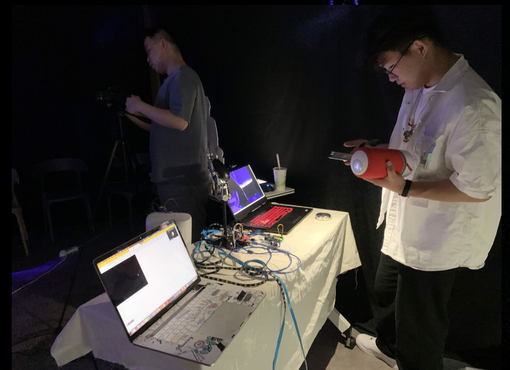


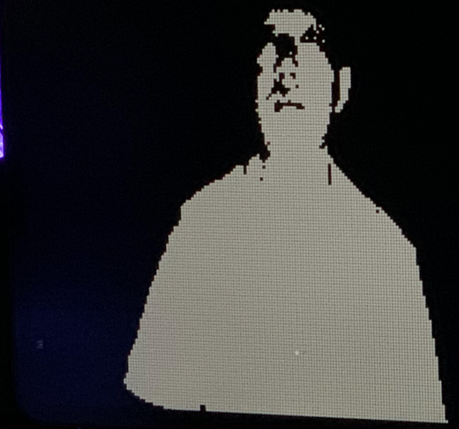
TESTING PROCESS



Test a variety of processing code running effects, such as mosaic effect, minecraft effect, black and white processing effect, and bubble effect, etc.

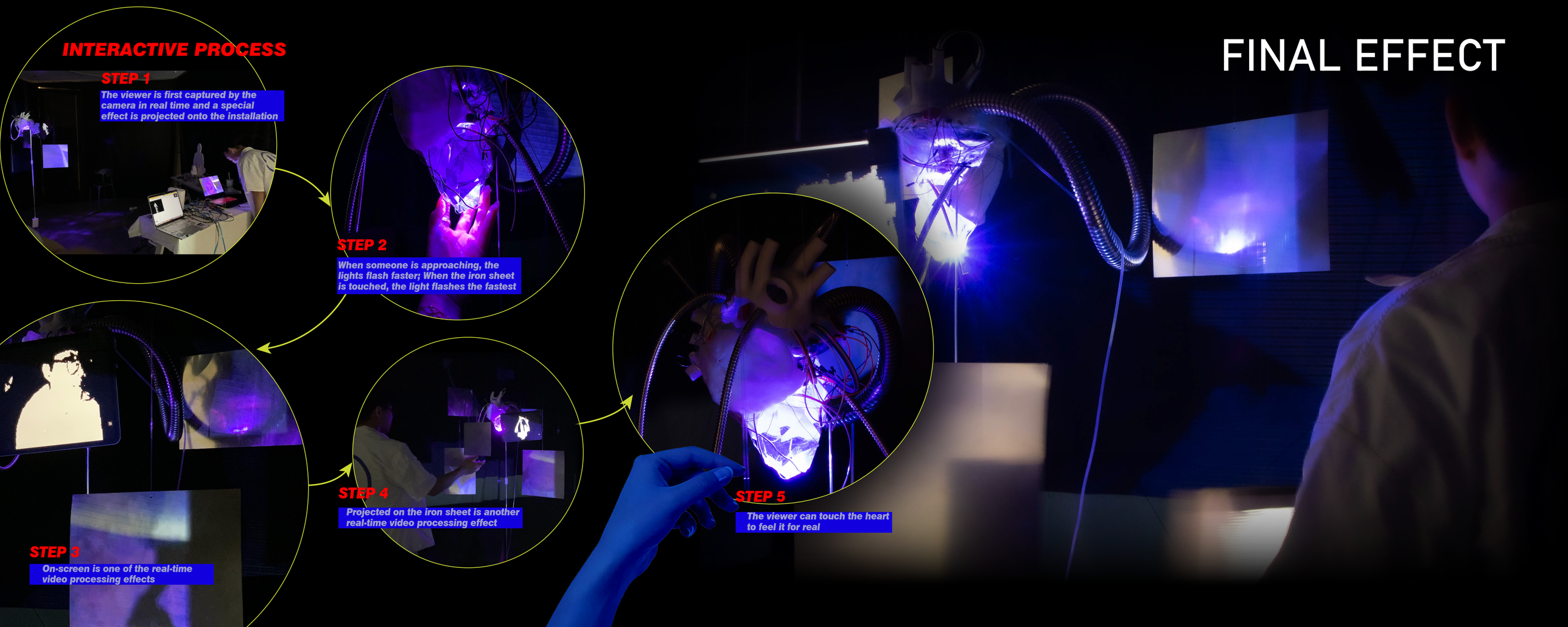
In the test session, I invited different audiences and asked them to give feedback on my imaging effect Settings. All of them agreed that the TIME-LAPSE PROJECTION was more difficult to distinguish between the fake and the real.

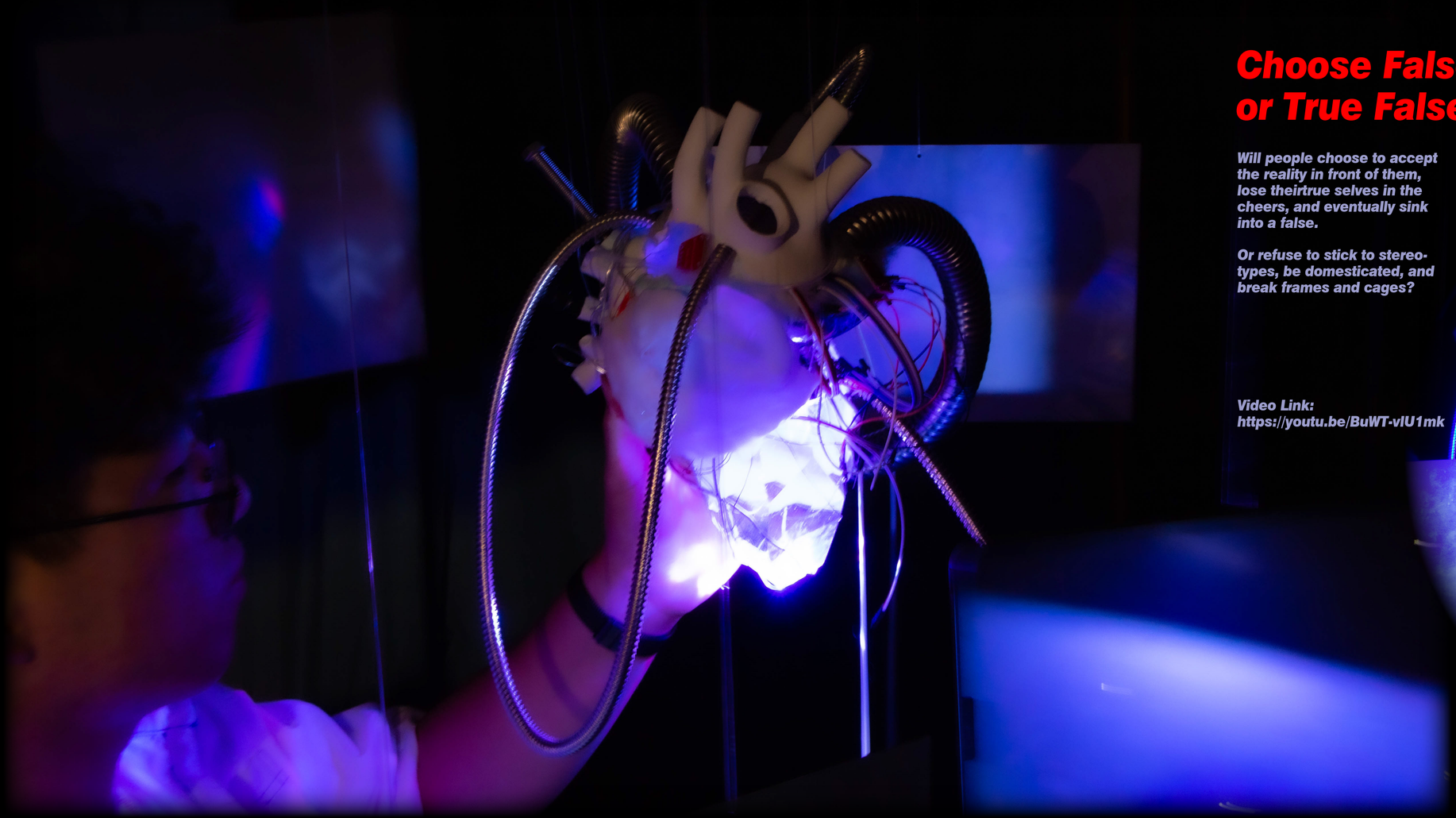




FINAL EFFECT

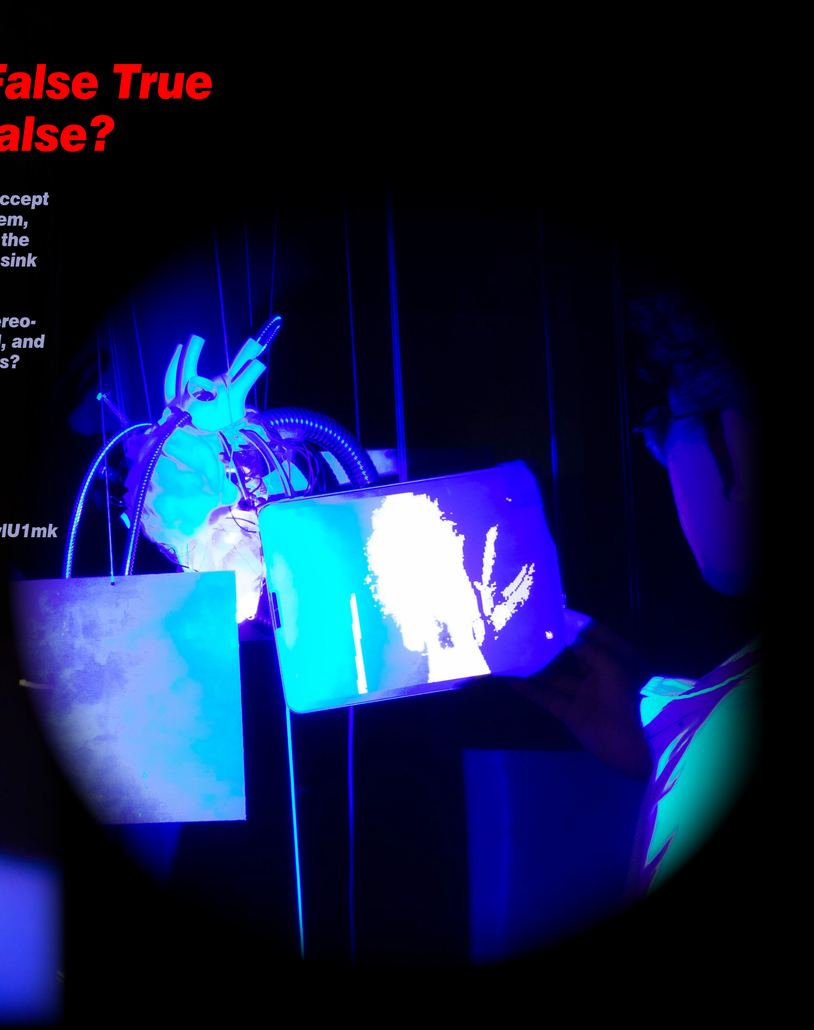
INTERACTIVE PROCESS





Choose False True or True False?

Will people choose to accept the reality in front of them, lose theirtrue selves in the cheers, and eventually sink into a false.

Or refuse to stick to stereo-types, be domesticated, and break frames and cages?

Video Link:
https://youtu.be/BuWT-vIU1mk