

Interactive
Sound Installation

Research on Network violence



Korean star Sullitment

At the age of 11,
she joined SM entertainment

publicly admitted that she was playing
with a 14-year-old male star, and began
to be scolded by netizens and fans

She began to receive abuse from
online fans because of her poor
performance due to physical reasons

Comments on her suicide
on October 14, 2019,
have since turned to pity

She was depressed, often lost her
temper on social media, and was
constantly scolded instead of
being loved

Her photos on the Internet were suspected
to be Sexual innuendo

same account have two
completely different
comments



No one took responsibility for the tragedy

Normal people

A restaurant owner, whose son killed a dog
after being bitten by a stray dog

Their family was exposed on the Internet and was cursed
and even threatened.

His wife attempted suicide

Family information is exposed on the Internet by human flesh,
they need to move, but still cursed and reviled by the strangers
on the Internet.

he has the most **punchable face** of all time. I'd like
nothing more than to sock him in his **ugly, soft, star-
ry-eyed pug face**.

I bet that your **ballsack** looks exactly like is face...

Can she just stick to steaming her **vagina** and shut
the fuck up, for fuck*'s sake.

You has a tiny dick, pass it on.

I bet you give really unenthusiastic handjobs.

Fuck you, suck my dick.

He is a dead eyed trash bag that smells like low tide.

'Tongue punch in the fart box' is a neglected
phrase. Use it today! Example: you deserve a tongue
punch in the fart box.

You are probably just angry that he looks like a
fucking aardvark.

Am now convinced he is a **crazy fucker** and not in a
cool way, just in a disturbed hobo shouting at spar-
rows and sidewalks way.

Structure of device

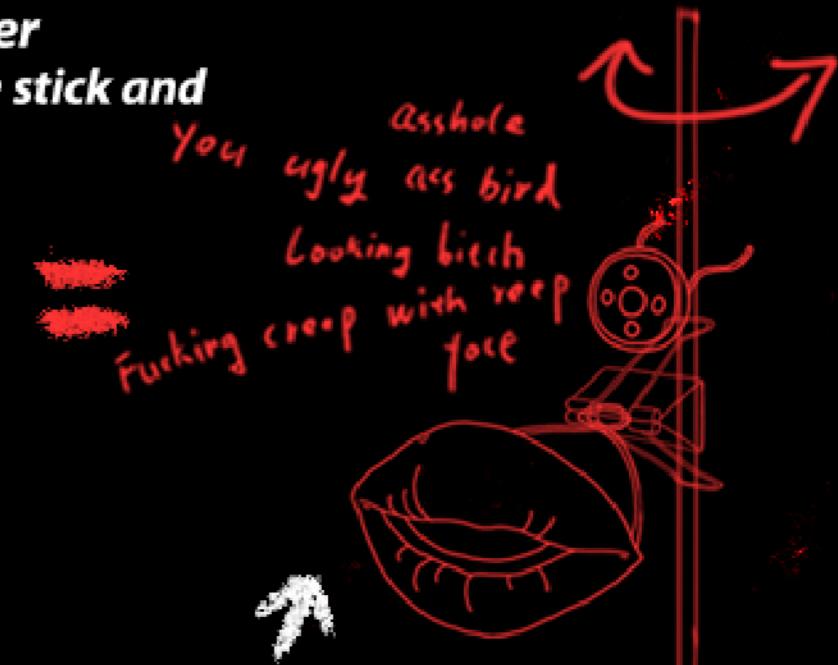
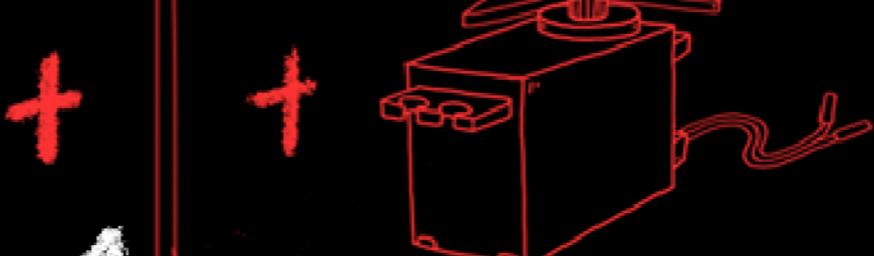
You asshole
ugly ass bird
Looking bitch
fucking creep with reep face

Horrible comments
on the internet

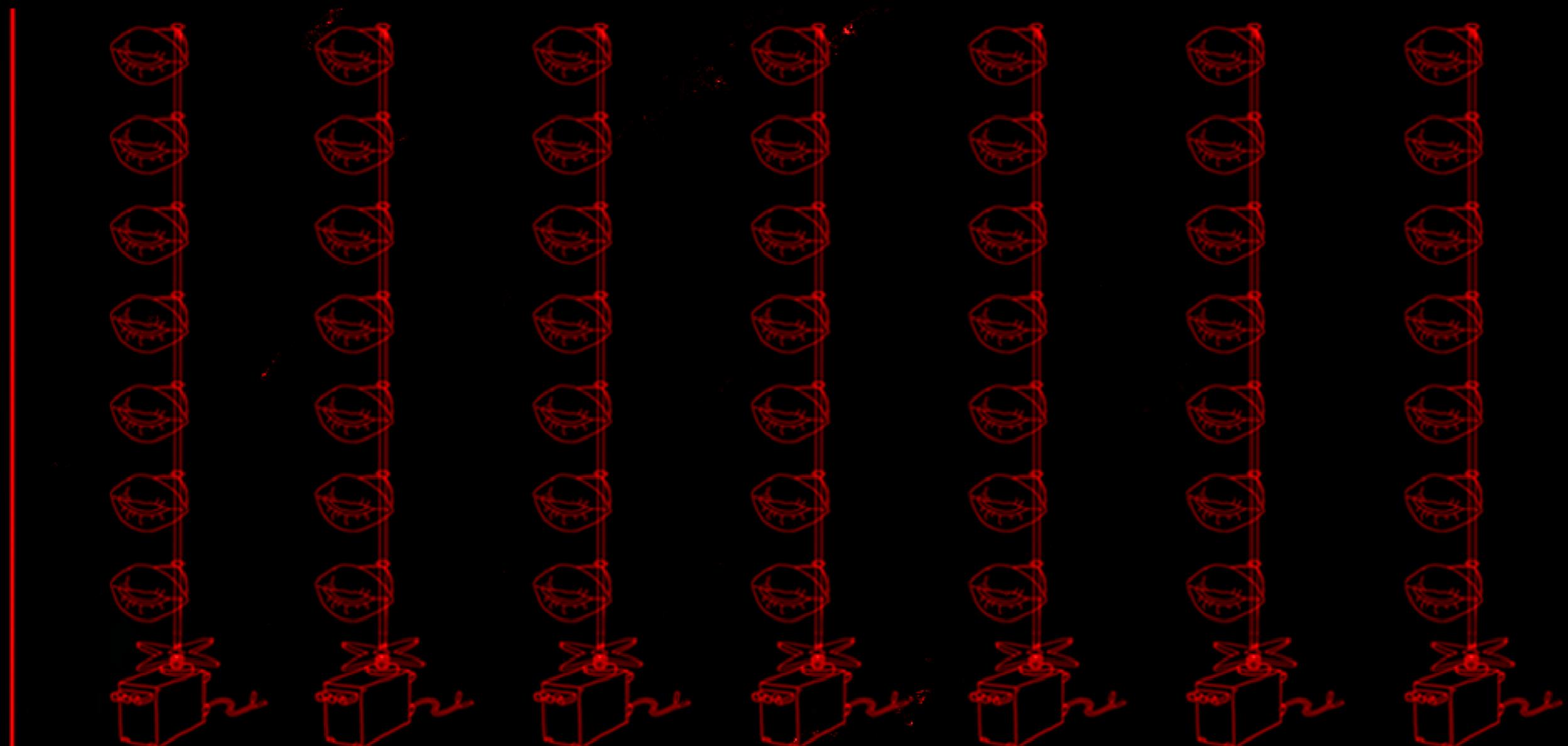
Loudspeaker
play the comments
on the Internet

Clamp
connect the lip and
the stick

Steering engine
move the stick and
lip



Structure of device

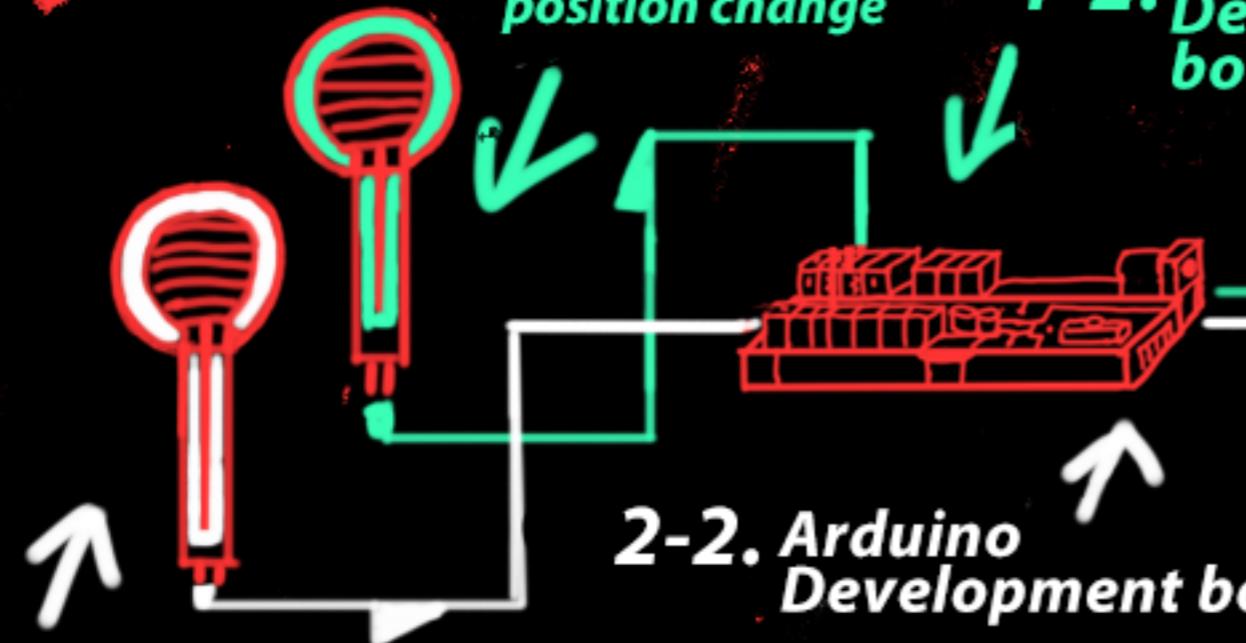


I'm going to hang
these mouths on the
wall, ten rows in all

Interactive process

1-1. Pressure induction

Sensing viewer position change



1-2. Arduino Development board

1-3. Computer programming



2-3. Computer programming

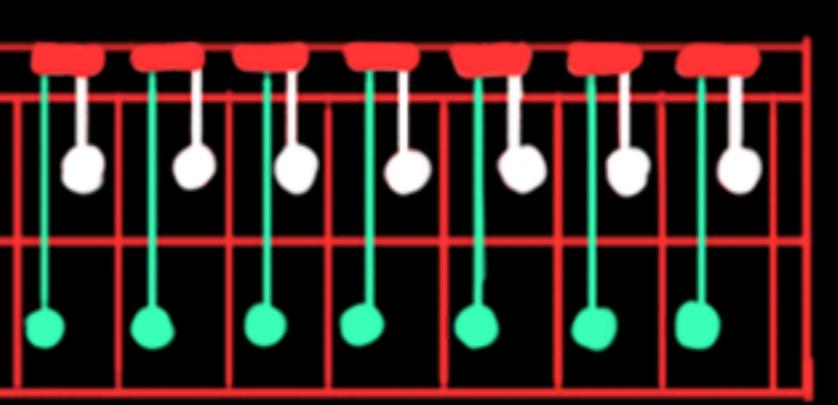
2-1. Pressure induction

*7 Position closer than before

Interactive mode

Every column of lips moves with the audience, and every mouth plays a bad Internet comment as a social phenomenon that will follow you no matter what. When the audience gets close to the mouth to hear a comment from one of the mouths, the words inside turn into a normal official comment

Dudience



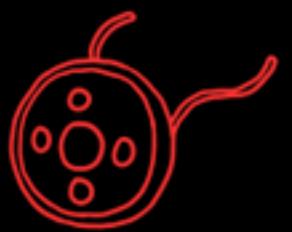
- Pressure induction to control the angles

- Pressure induction to control the audio

- The device

1-4. Steering engine

According to the different positions of the viewers, the steering gear is turned to different angles to achieve the effect of real-time tracking



2-4. Loudspeaker

When the viewer gets closer to the device and wants to listen to the audio, the second row of sensors triggers the horn to play different audio.

Coding

sketch_jul19a

```
#include <LobotServoController.h>
LobotServoController myse;
LobotServo servos[6];
int i;
int In[2][4]={{14,15,0,0},{16,17,18,19}};
void setup(){
    pinMode(13,OUTPUT);
    pinMode(In[0][0],INPUT);
    pinMode(In[0][1],INPUT);
    pinMode(In[1][3],INPUT);
    pinMode(In[1][0],INPUT);
    pinMode(In[1][1],INPUT);
    pinMode(In[1][2],INPUT);
    servos[0].ID=3;
    servos[1].ID=4;
    servos[2].ID=5;
    servos[3].ID=8;
    servos[4].ID=11;
    servos[5].ID=14;
    Serial.begin(9600);
    while(!Serial);
    digitalWrite(13,HIGH);
}
void loop(){
    int R00=analogRead(In[0][0]);
    int R01=analogRead(In[0][1]);
    .
```

sketch_jul19a

```
int R11=analogRead(In[1][1]);
int R12=analogRead(In[1][2]);
int R13=analogRead(In[1][3]);
//0~3000对应0到300度，居中为1500，对应150度（面对观众）
//逆时针旋转为正，position值增加，1度增加10;
if(R00>=880){
    servos[0].Position=1500+635;//0号舵机，旋转+63.5°
    servos[1].Position=1500+450;//1号舵机，旋转+45°
    servos[2].Position=1500;//2号舵机，旋转0°
    servos[3].Position=1500-450;//3号舵机，旋转-45°
    servos[4].Position=1500-635;//4号舵机，旋转-63.5°
    servos[5].Position=1500-715;//5号舵机，旋转-71.5°
    //控制发声部分程序
}
else if(R01>=880){
    servos[0].Position=1500+715;//0号舵机，旋转+71.5°
    servos[1].Position=1500+635;//1号舵机，旋转+63.5°
    servos[2].Position=1500+450;//2号舵机，旋转+45°
    servos[3].Position=1500;//3号舵机，旋转0°
    servos[4].Position=1500-450;//4号舵机，旋转-45°
    servos[5].Position=1500-635;//5号舵机，旋转-63.5°
    //控制发声部分程序
}
else if(R10>=880){
    servos[0].Position=1500+265;//0号舵机，旋转+26.5°
    servos[1].Position=1500;//1号舵机，旋转0°
    .
```

```
servos[0].Position=1500;//0号舵机，正对观众
servos[1].Position=1500;//1号舵机，正对观众
servos[2].Position=1500;//2号舵机，正对观众
servos[3].Position=1500;//3号舵机，正对观众
servos[4].Position=1500;//4号舵机，正对观众
servos[5].Position=1500;//5号舵机，正对观众
}
myse.moveServos(servos,6,500);
delay(1000);
}
```

sketch_jul19a

```
servos[3].Position=1500-450;//3号舵机，旋转-45°
servos[4].Position=1500-563;//4号舵机，旋转-56.3°
servos[5].Position=1500-635;//5号舵机，旋转-63.5°
}
else if(R11>=880){
    servos[0].Position=1500+450;//0号舵机，旋转+45°
    servos[1].Position=1500+265;//1号舵机，旋转+26.5°
    servos[2].Position=1500;//2号舵机，旋转0°
    servos[3].Position=1500-265;//3号舵机，旋转-26.5°
    servos[4].Position=1500-450;//4号舵机，旋转-45°
    servos[5].Position=1500-563;//5号舵机，旋转-56.3°
}
else if(R12>=880){
    servos[0].Position=1500+563;//0号舵机，旋转+56.3°
    servos[1].Position=1500+450;//1号舵机，旋转+45°
    servos[2].Position=1500+265;//2号舵机，旋转+26.5°
    servos[3].Position=1500;//3号舵机，旋转0°
    servos[4].Position=1500-265;//4号舵机，旋转-26.5°
    servos[5].Position=1500-450;//5号舵机，旋转-45°
}
else if(R13>=880){
    servos[0].Position=1500+635;//0号舵机，旋转+63.5°
    servos[1].Position=1500+563;//0号舵机，旋转+56.3°
    servos[2].Position=1500+450;//1号舵机，旋转+45°
    servos[3].Position=1500+265;//2号舵机，旋转+26.5°
    servos[4].Position=1500;//3号舵机，旋转0°
    .
```