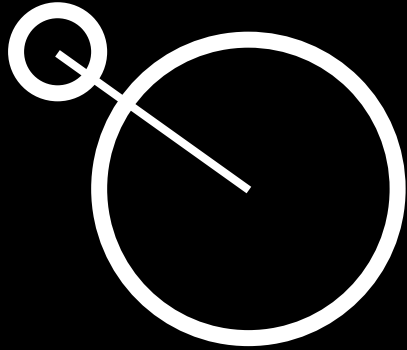


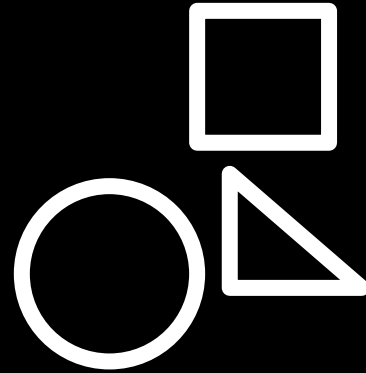
Po-Wen Shih
IMA Lowres 2021
Thesis preview



In my thesis of **Voice and Perception**. I aim to create experiments for audiences who will experience moments of self-voice-awareness and voice-perception-gap. Explore possible successful factors of achieving self-voice-acceptance in a form of interactive installation.



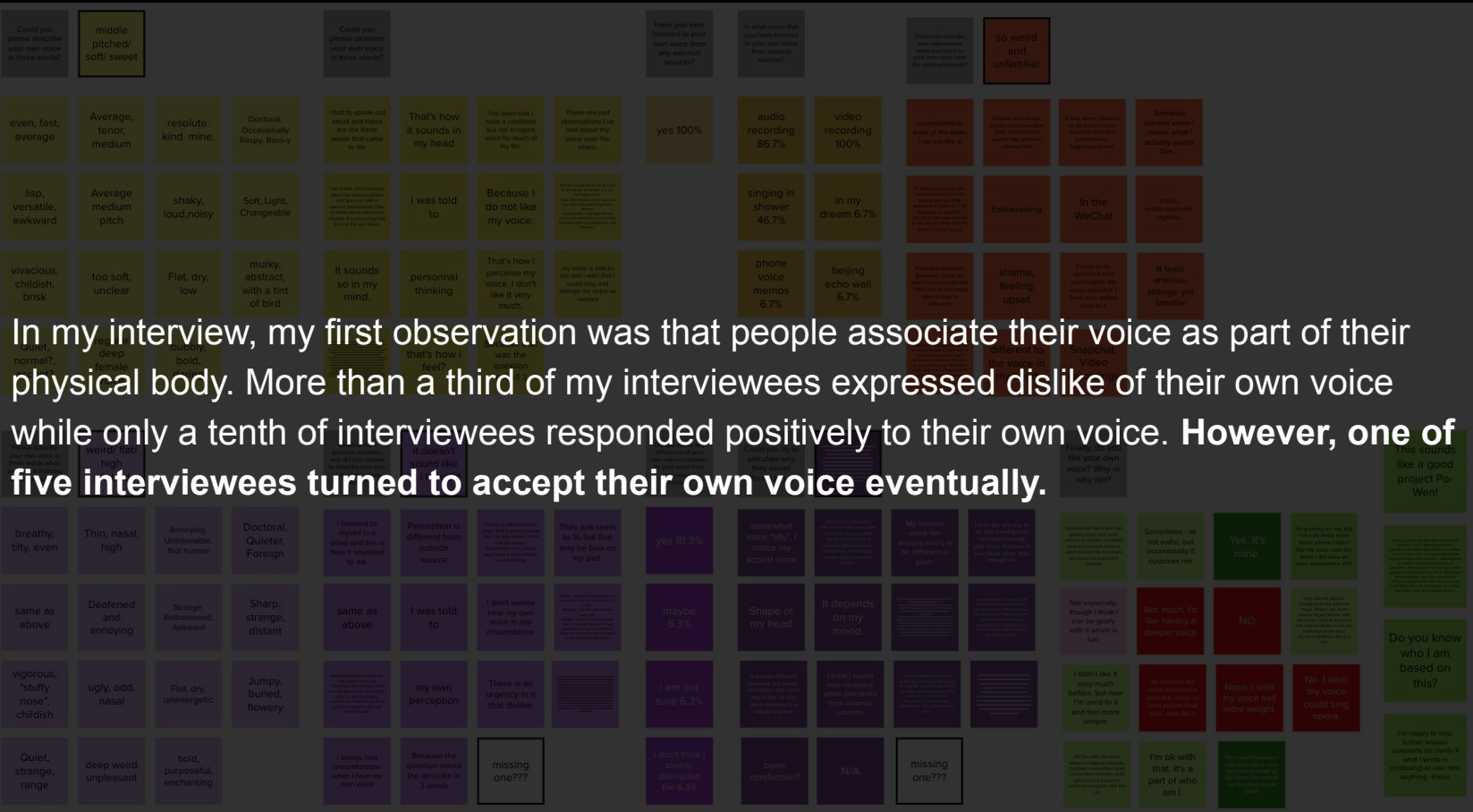
**Voice
Confrontation**



**Cognitive
Dissonance**

We want our voice to **reflect our true us, congruent to our identity and reflect our strength**. The study of perception and voice not only correlates with perception of anxiety but also the **anxieties of not being strong, not being competent, not being trustworthy as well as anxiety of getting misperception from others with your voice**.

In the Your Voice Says a Lot About You, Jackie Gartner-Schmidt.



In my interview, my first observation was that people associate their voice as part of their physical body. More than a third of my interviewees expressed dislike of their own voice while only a tenth of interviewees responded positively to their own voice. However, one of five interviewees turned to accept their own voice eventually.

MY THESIS QUESTIONS

What is perception of voice?

What causes a perception and how can we perceive the gap between human and their voice?

What is the connection between our voice, body and identity?

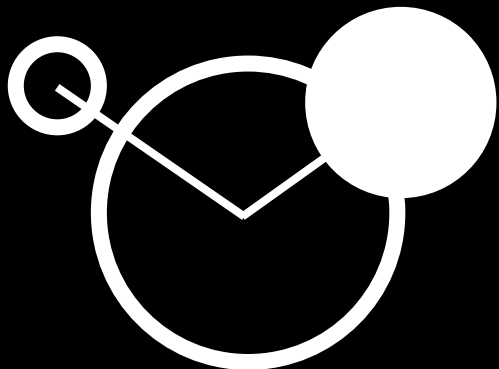
How might we re-calibrate about our relationship with our body taking our voice as the first step?

How can we recreating a moment of voice confrontation that will induce to gaining awareness of one's voiced sound?

How can we describe a transformation moment of acceptance in one's voiced sound and what are the transformational factors?

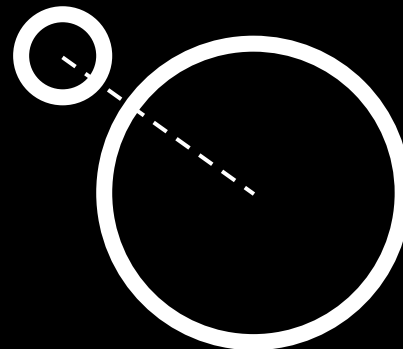
What will self-voice-acceptance intervention look like once a gap has been perceived?

PERCEPTION GAP



Outward voice
+
Inward voice

Expectation.
Identity.
Memory.
Personality.
Relationship.
Emotion Revealing.
Speech experience.
Self Identity.
Self Loathe.
Social Rewarding.
Sonic Signature.
And
More...



Recorded voice
(Outward voice +
audio filters)

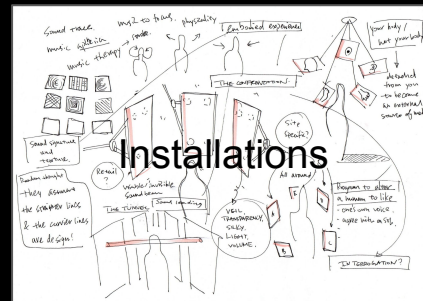
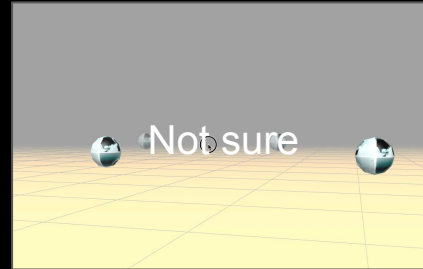
STRUCTURE



Both experiments could potentially evolve to be the final form or become a component of final form

PROCESS

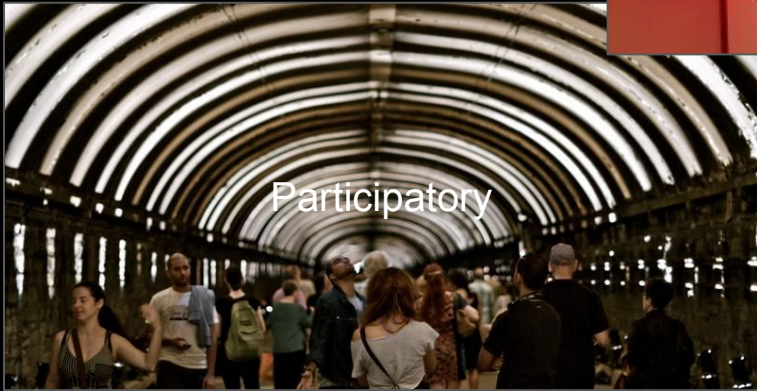
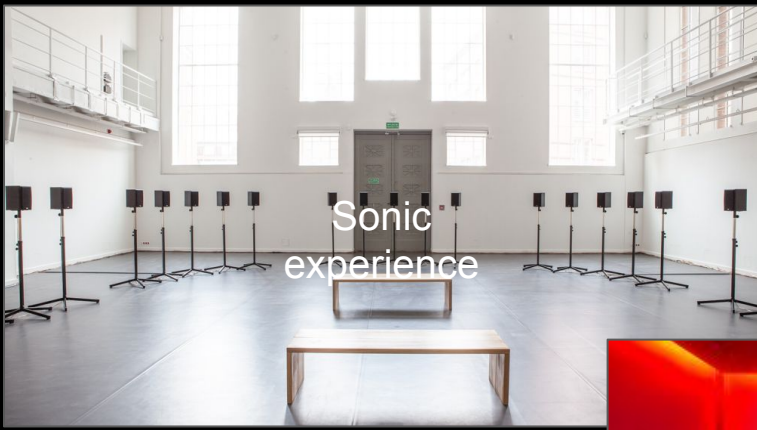
- A. To resonate by hearing and touch –
Conscious and reality – An installation where you will experience both sonically and haptically of a sound
- B. To comprehend by a huge variety of samples –
A sound distorted environment where your own voice is recorded (or altered) in various ways and played in separate channels
- C. To dehumanize and cyberize a voice –
A space where you can only hear the high or low frequency of a speech
- D. To create a confused then enlightened (surprised) moment –
Receive a phone call from a stranger who has an identical voice of your own
- E. To surprise a familiar moment –
Meet someone who has almost identical voice to your mother
- F. To create a cognitive dissonance –
Experience a car accident simulation where the car is coming at you but you hear the sound from behind
- G. To reproduce and recreate –
Use your own voice as an atomic property to create objects (How would a generative object look like if we input our voice with a simulation algorithm?)
- H. To transform and explore –
Something that alters your own voice
- I. To recognize, take advantage and control (your voice) –
An application allows you to adjust your own voice in online meetings
- J. To mimic, modulate and generate –
Voice deep fake (eg with mic that can deep fake your favorite tone?)
- K. To empathize and embrace – Love my own voice – how?



- Three experts interviewed including two vocal artists.
- Listened to more than 12 hours of playback of my own voiced sound

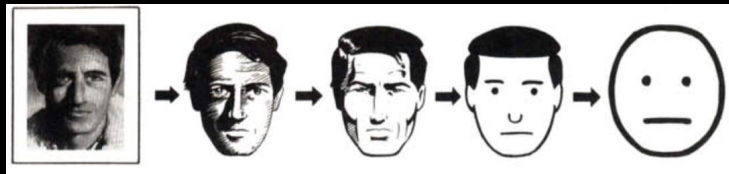


**My first experiment
To hear and to see, to
be aware of self**



EXPERIMENT #1

Another

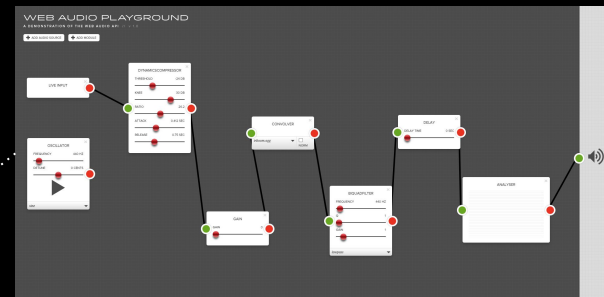


Yourself

An experiment plays with reader-identification effect with self-enhancement in audio

```
1 // adding record and loop sketch provided by Ellen
2 // adding 17.8: Microphone Input - p5.js Sound Tutorial
3 // the basic framework is done with m15 Face Detection Model
4
5 let faceapi;
6 let detections = [];
7
8 // p5.AudioIn mic
9 let mic;
10
11
12 // Video
13 let video;
14
15 // new record and loop by Po-Wen //
16 let recorder;
17 let state = 0;
18 // An array to store recorded loops
19 let sounds = [];
20
21
22 // Feel the network full window
23 let wHeight;
24
25 // let wWidth;
26
27 function windowResized() {
28
29 }
30
```

Object (withLandmarks: true, withExpressions: false, withDescriptors: false)



Web audio api

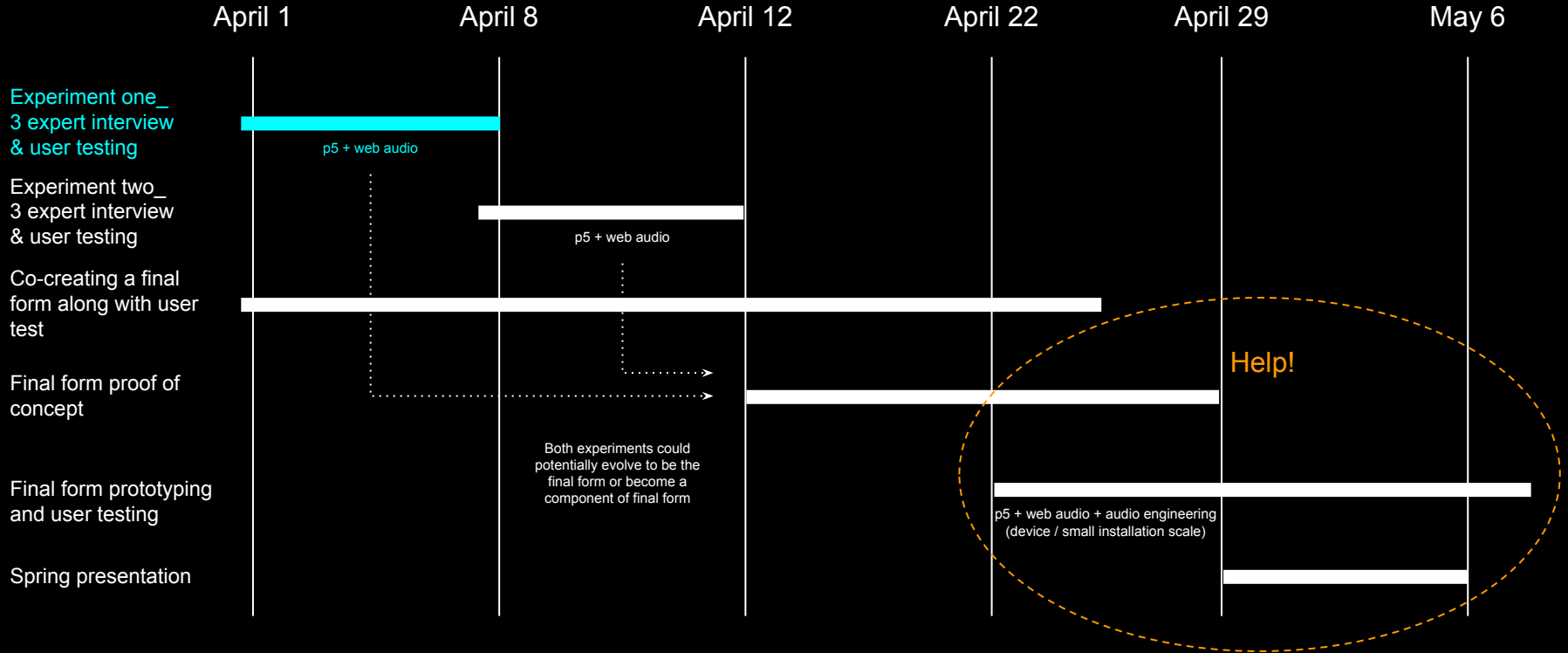
P5.sound library_
Hearing realtime voiced
sound of oneself

“Show-A-Thing Feedback Session”

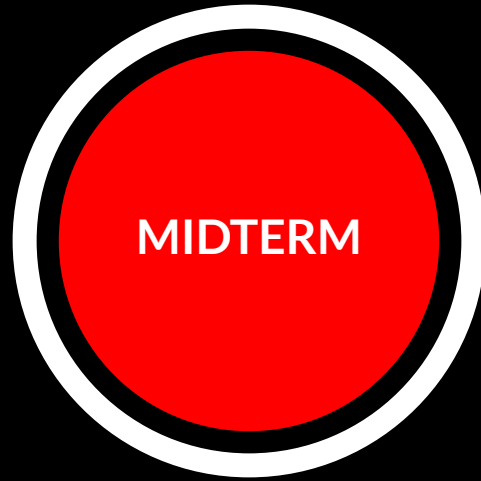
I will be showing first experiment and three detail documentations of user testing for the April 8. (To inform my second experiment and a clearer direction of final interactive installation.)

I am committed to doing 3 user testings on both of my experiments of self-voice-awareness and voice-perception-gap with experts and IMA cohort (faculty). (Brainstorm and explore possible final form along the interview testings.) Eventually come to a completion of POC of self-voice-acceptance installation by May 6th.

TIMELINE



THANK YOU



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