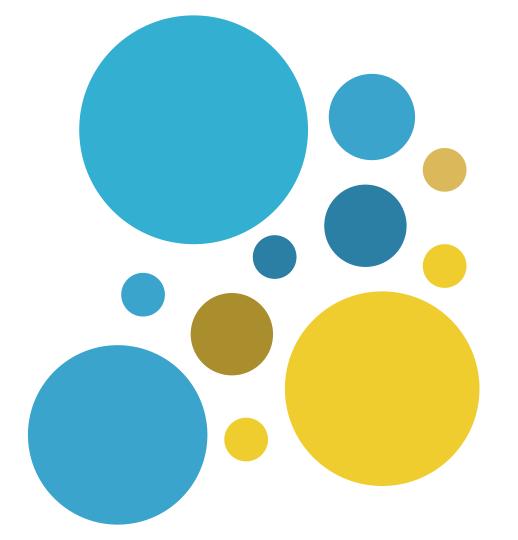
## TAP! TAP!

COSTA Kimmy,
PATASHKEVICH Natallia,
SWAMINATHAN Jennifer





**INTRODUCTION** 

Aim course project

**PROBLEMATIC** 

**Project description** 

**PROJECT ARCHITECTURE** 

Modalities

03

02

**SOLUTION** 

Use case

04



STATE MACHINE 05
Game system layout

SOFTWARE USED Tools

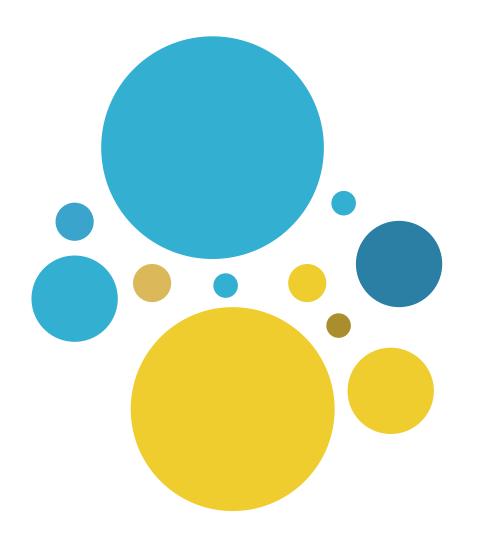
USER EVALUATION

A/B testing, time and errors

CONCLUSION 08
Follow up, wrap up

#### **01. INTRODUCTION**

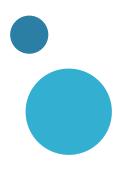
Grasp the combination of multiple modalities in a training rehabilitation task for visual impaired people





02.

### **PROBLEMATIC**



#### **02. PROBLEMATIC**

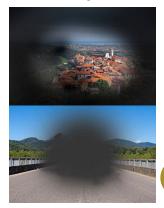
#### **Color blindness**

Monochromatic, daltonia...

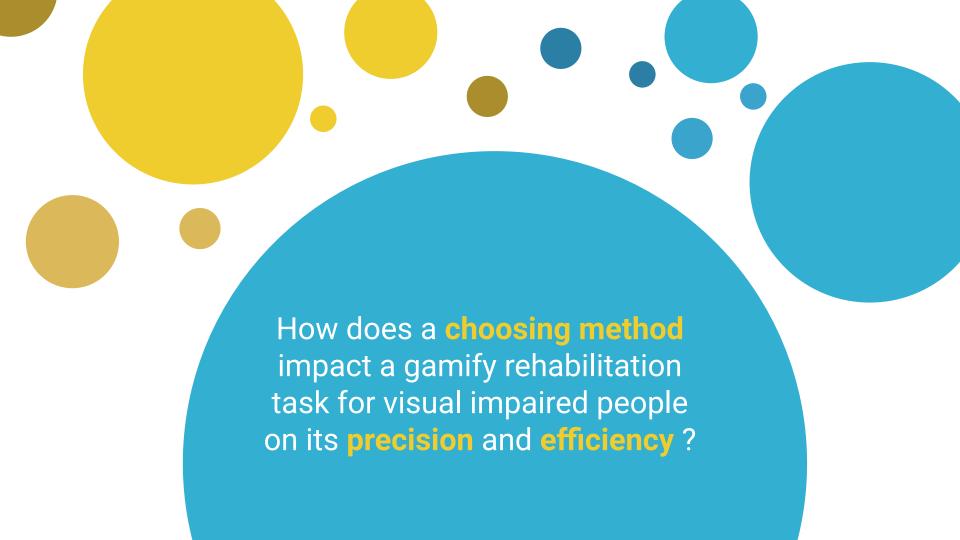


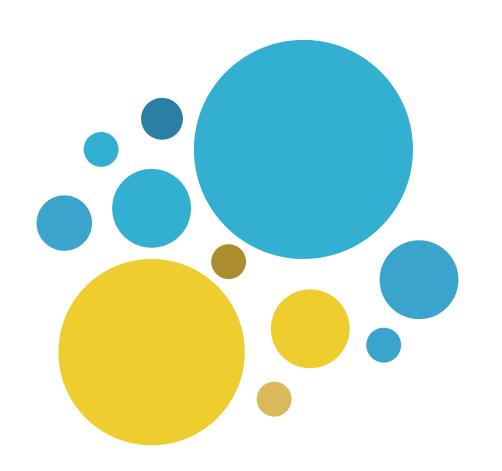
#### **Visual impaired**

E.g glaucoma, legal blindness, macula degeneration...



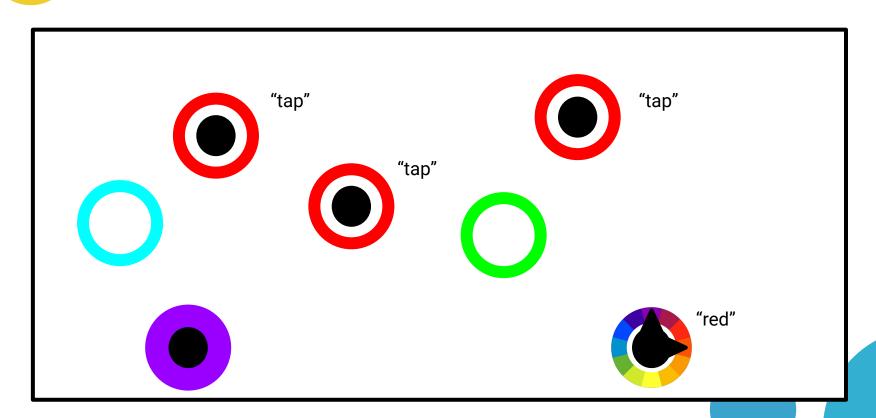




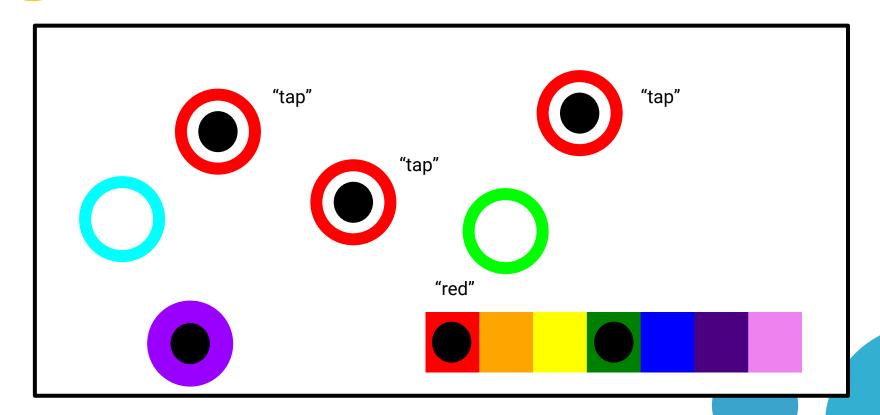


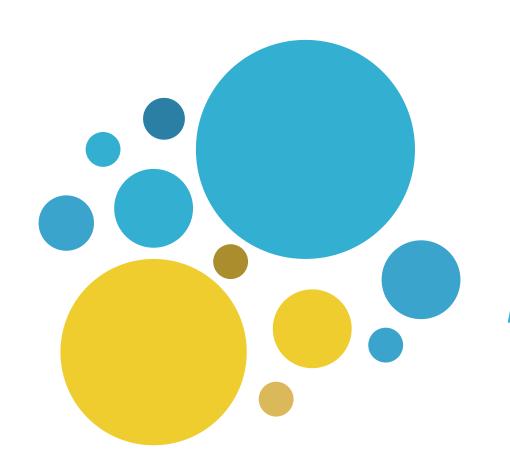
03. SOLUTION





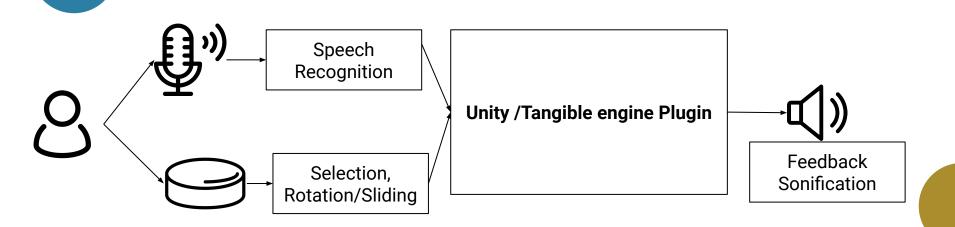






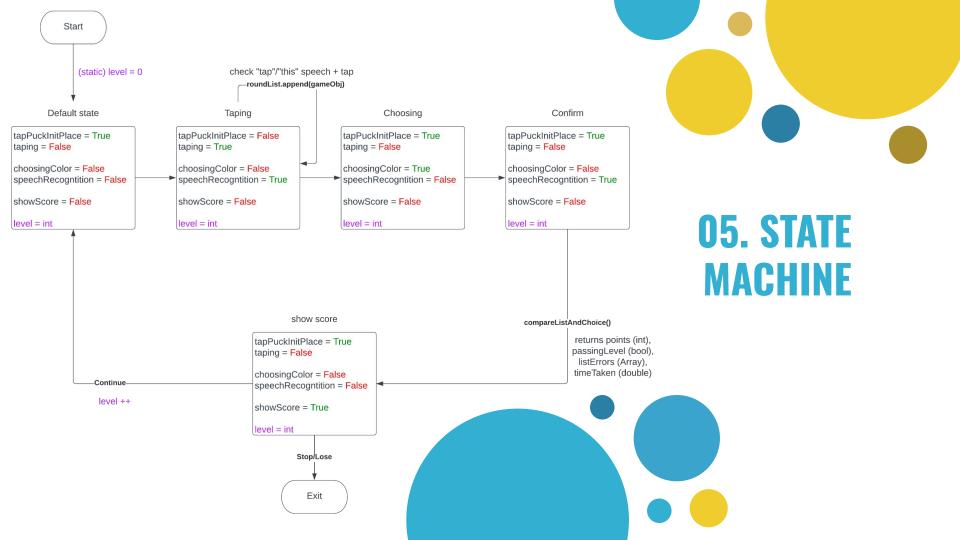
# 04. PROJECT ARCHITECTURE

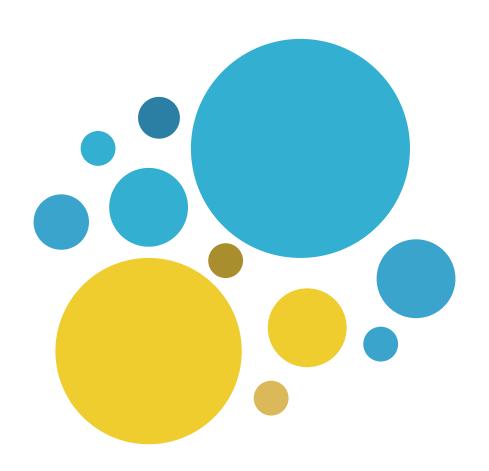
#### **04. PROJECT ARCHITECTURE**





## 05. STATE MACHINE





## 06. SOFTWARE USED

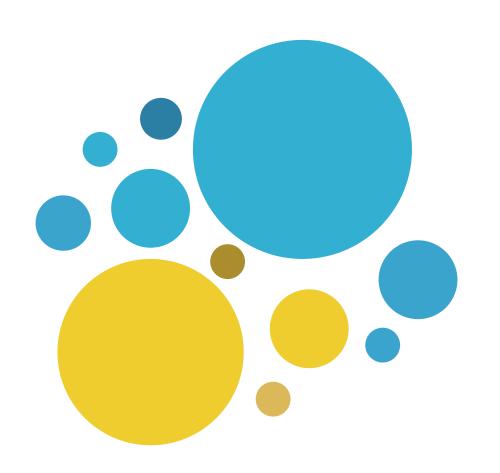






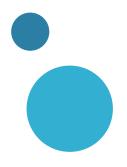
Software

Plug-in



# 07. USER EVALUATION





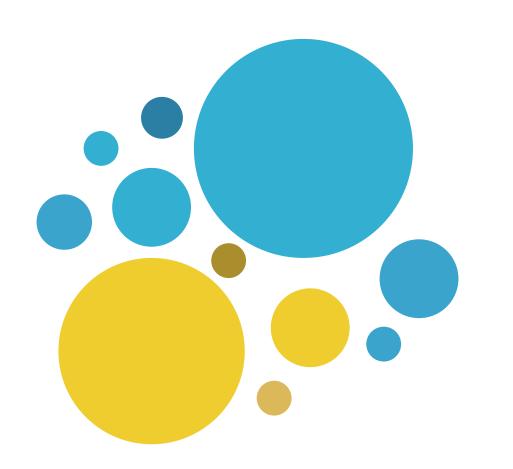
#### **07. USER EVALUATION**

**HO: Time** 

There's no significant difference in **time** between choosing a color on a color wheel or sliding on a color stripe

H1: Errors

There's no significant difference in the **number of errors** between choosing a color on a color wheel or sliding on a color stripe



08.

### **CONCLUSION**

#### **08. CONCLUSION**



#### **Colorblind**

Color differentiation



#### **Gamification**

Fun tap game : score, level → time + errors



#### **Visual impaired**

Size, thickness differences, big surface



#### **Coding**

Combine Tangible Engine + speech on Unity



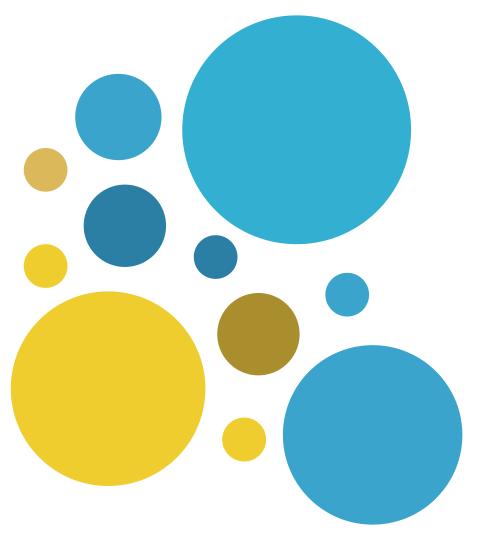
#### **Multimodalities**

Speech and tangible object



#### **Evaluation**

A/B testing on time and errors for 2 variants



## THANKS!

Do you have any questions?

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