H566 EXPERIENCE DESIGN FOR UBIQUITOUS COMPUTING

GLASSCOMPANION

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Increased number of smart and wearable devices

Limitations with devices that use touch/voice input

Extend the functionality of both smart devices and wearables



CONTEXT



USAGE

Google Glass + MYO Gesture Armband + Smartphone

Touch-less Gestures

Message Templates

USABILITY GOALS

Effectiveness

Utility and Efficiency

Memorability and Learnability

USERS

Performing activities that limits phone usage

Difficulty speaking out loud or being heard

Hearing Impaired



TECHNOLOGY Google Glass



Features





Benefits

TECHNOLOGY MYO Gesture Armband



ThalmicLabs

EMG Sensors

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Benefits



TECHNOLOGY Android Smartphone



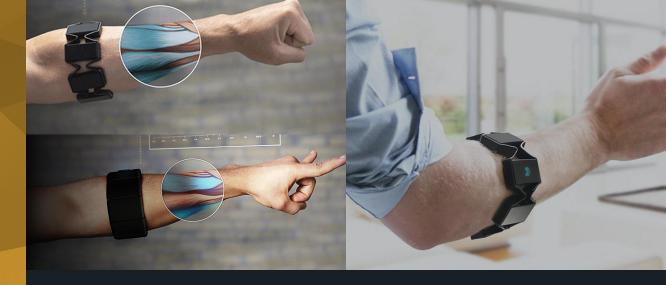
Platform

Google Voice



Benefits

TECHNOLOGY MYO Limitation



Gestures

6

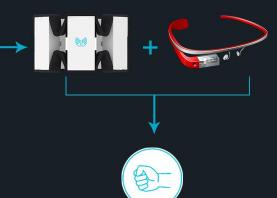
ومح Learning Curve





Tap to Activate





Fist

SCENARIO Office



In a meeting, what happened?

Fist 💽



SCENARIO Home



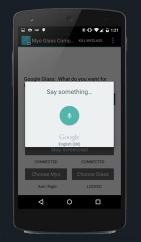


Don't forget to buy groceries

Fist 🛞

SCENARIO Deaf or Hard of hearing

Lady trying to start a conversation



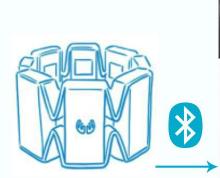




Live caption message to assist with lip reading

Fist 💽

CONNECTIVITY

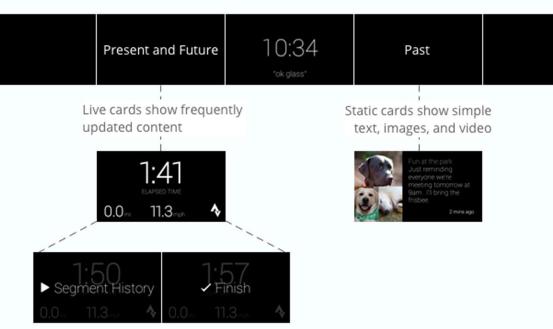


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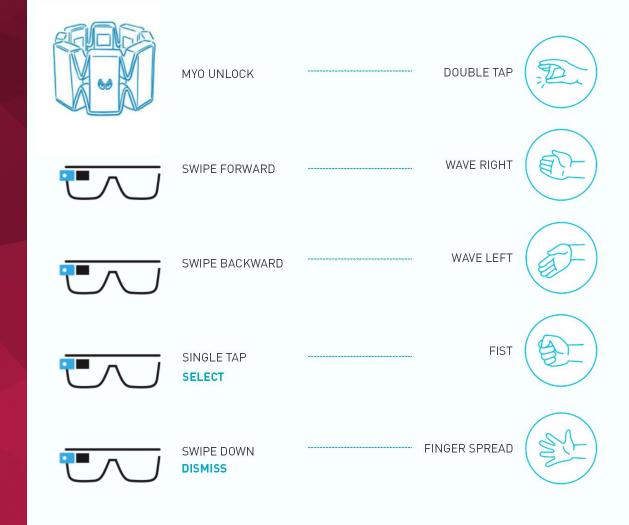
GLASS TIMELINE

The timeline manages cards and processes user input



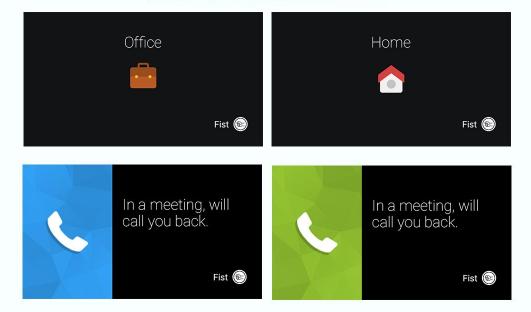
Menu items allow users to act on cards

MYO GESTURES TO GLASS ACTIONS



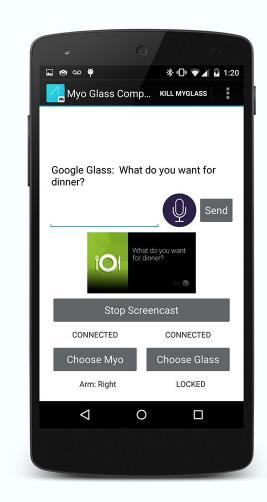
GLASS MESSAGE TEMPLATES

Select Context

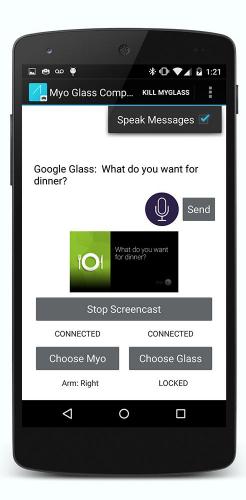


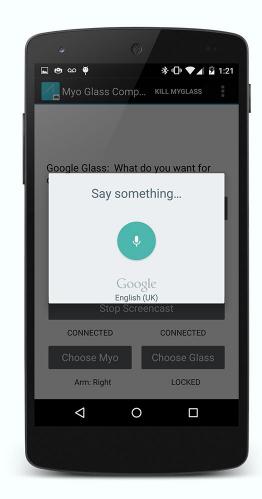
PHONE APP



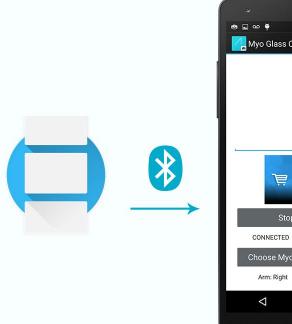


FEATURES





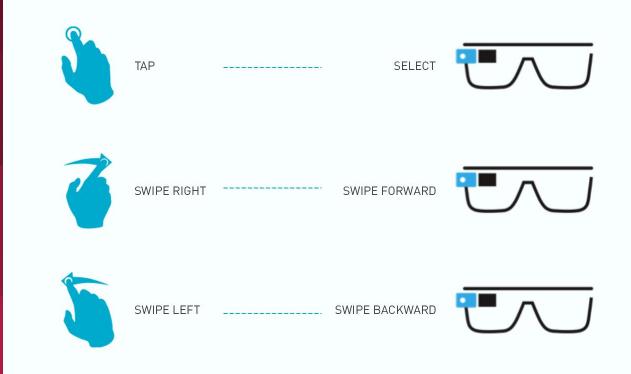
WEAR-GLASS CONTROL







WEAR GESTURE TO GLASS ACTIONS



FUTURE WORK

Message templates for daily activities

Language translation feature

Explore more gestures on watch

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THANKYOU

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