Multimodal Tamagotchi

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The initial idea

Create an animal companion that reacts to the natural input given by a person

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UTOPIA

Tamagotchi

- Simple interactions

- Successful concept

- Similar to the initial idea

- Support for voice, gestures and emotion recognition

- But…

Multimodal interaction

- Voice recognition easily leads to errors

- Gesture recognition is hard to handle

- Emotion recognition is not very precise

Multimodal interaction

Solution

Provide to the user the possibility to give the same commands through button input

Multimodal interaction

- Don't support gestures recognition

- Take user input, combine it with the current emotion and produce output

User evaluation

Our hypothesis

Providing natural interfaces to the user provides a better empathy with the application

User evaluation

What is empathy?

The capacity to understand or feel what another being is experiencing

User evaluation

How to measure it?

User evaluation

- Ask directly to the user at the end

- Keep track of the emotion of the user according to what is happening

Video and Demo

Conclusions

- Capture, merge and interpret people's methods to interact with each other is difficult

- Evaluating the level of empathy with something is hard

- Everyone is different, everyone reacts differently

Questions?