Fun with HCI

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Learning Objectives

- Describe the different input modalities
- List advantages and challenges of each modality
- Select the best modality for a specific scenario

Pen-based Input

- Imitates pen and paper

Tangibles

- Bridge between physical and digital world
- Use a physical object to interact with a digital environment
- https://www.youtube.com/watch?v=4wHQqeRUupo
- https://www.youtube.com/watch?v=axpRTpzuOqw

Gesture Interfaces

- Hand gestures
- https://www.youtube.com/watch?v=a9CR3oyekNk
- https://www.youtube.com/watch?v=5q0zhJdNZvM

Brain Computer Interaction

- Direct connection between our brains and computers
- https://www.youtube.com/watch?v=l-kwgxJ3bPk

Summary

- Four different modalities
  - Pen-based Input
  - Tangibles
  - Gesture Interfaces
  - Brain Computer Interaction