https://github.com/scimusmn

Hardware interfaces with digital media
Motivations for interface

Hardware interface motivations

Interface control
- Activate and step forward
- Trigger media
- Move a character
Hardware interface motivations

Interface control
- Activate and step forward
- Trigger media
- Move a character

Data input
- Add personal information
- Manipulate values
- Get sensed

Media and motion capture
- Imagery
- Audio
- Movement as interface
Tools for interfacing

Touchscreens, keyboards, and mice
- Turn any switch into a key press
- Simple USB interface
- Easy to program on the software side (Javascript, etc)
• Affordable and popular in many open source projects
• Lots of available examples and code
• Can read in a variety of complex sensor inputs
• Easy to develop software to parse the data stream
• Sensor examples
  ◦ Height through front door
  ◦ Blood volume
  ◦ Other biometrics
2D and 3D Cameras

- Commodity webcams
  - Affordable
  - Easy to read into HTML5

- Microsoft Kinect
  - Complex custom programming
  - Requires more custom programming, less open source projects
  - Hardware lock-in

- Powerful visitor experiences
NodeJS and WebSockets/Socket.io

D3
Thanks