



SuperConductor

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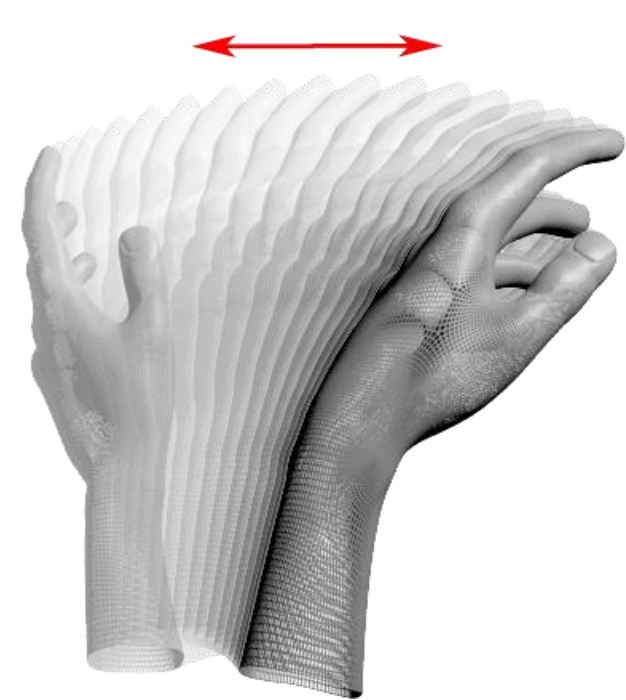
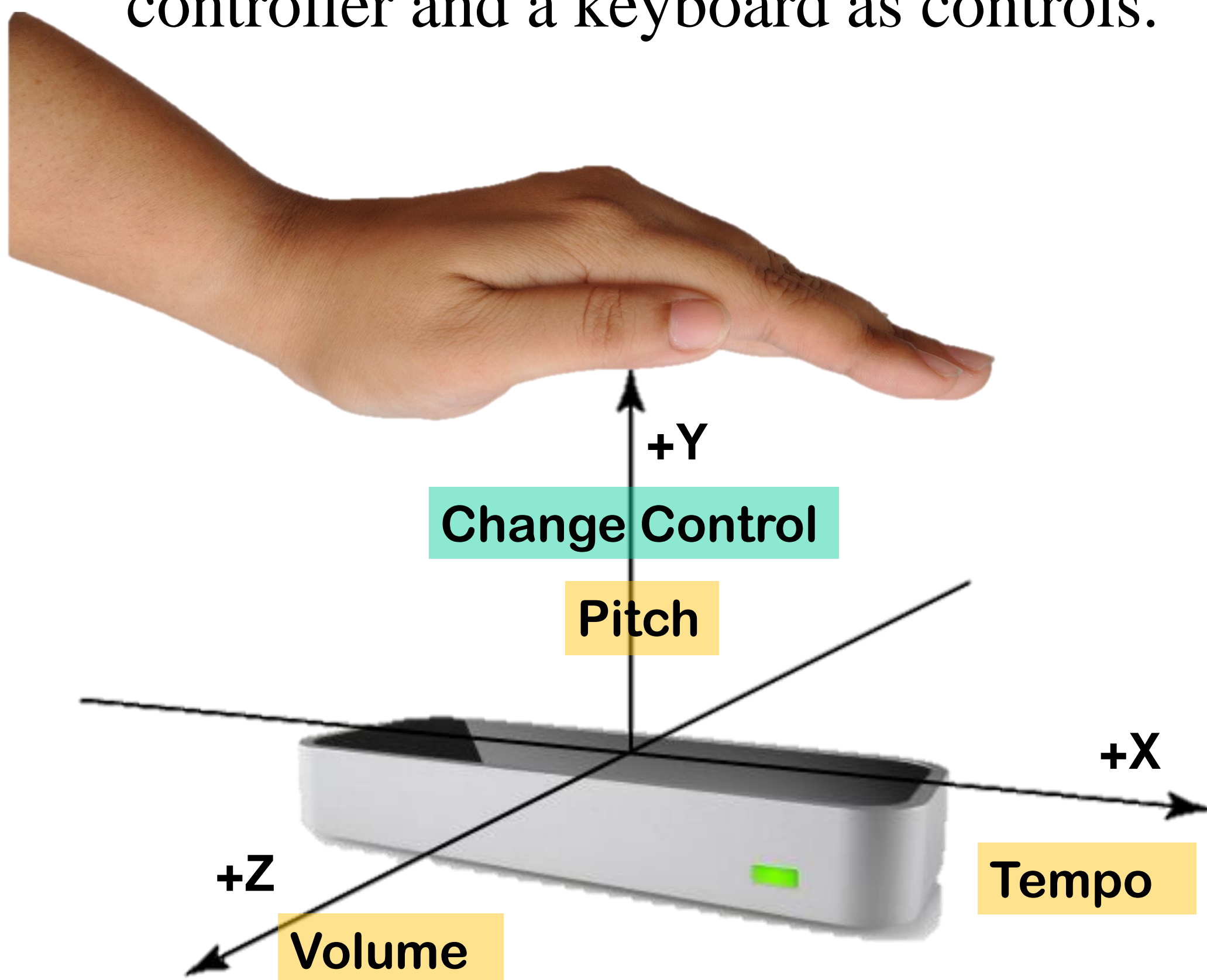
Control music with hand gestures



Sound Capstone
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Usage

SuperConductor uses both the Leap Motion controller and a keyboard as controls.



Precise Control Change



Conduct Tempo

Special Control
(Hold)

Edit Control
(Hold)



Control Change:
W – Up, S – Down

Track Change:
A – Down, D – Up

Restore Default

Goal

- SuperConductor allows the interaction and manipulation of MIDI music with motion gestures through the Leap Motion controller in real time.
- This allows people with little or no musical background to play with their music – without needing to learn complex audio editing software.

Description

- A song's pitch, volume, and instrument can be controlled either on a per-track basis or globally (all tracks).
- Song tempo can only be set globally. Tempo can be set with a conducting motion over the Leap Motion controller



Future Work

Additional features that would be interesting to add in the future are:

- Ability to save changes to a song so users can share their creations with others.
- Support for standard audio formats like mp3
- Ability to create music from scratch, or add to existing songs.