



# SuperConductor

Bryan Martin Crystal Wong Mason Lorenz

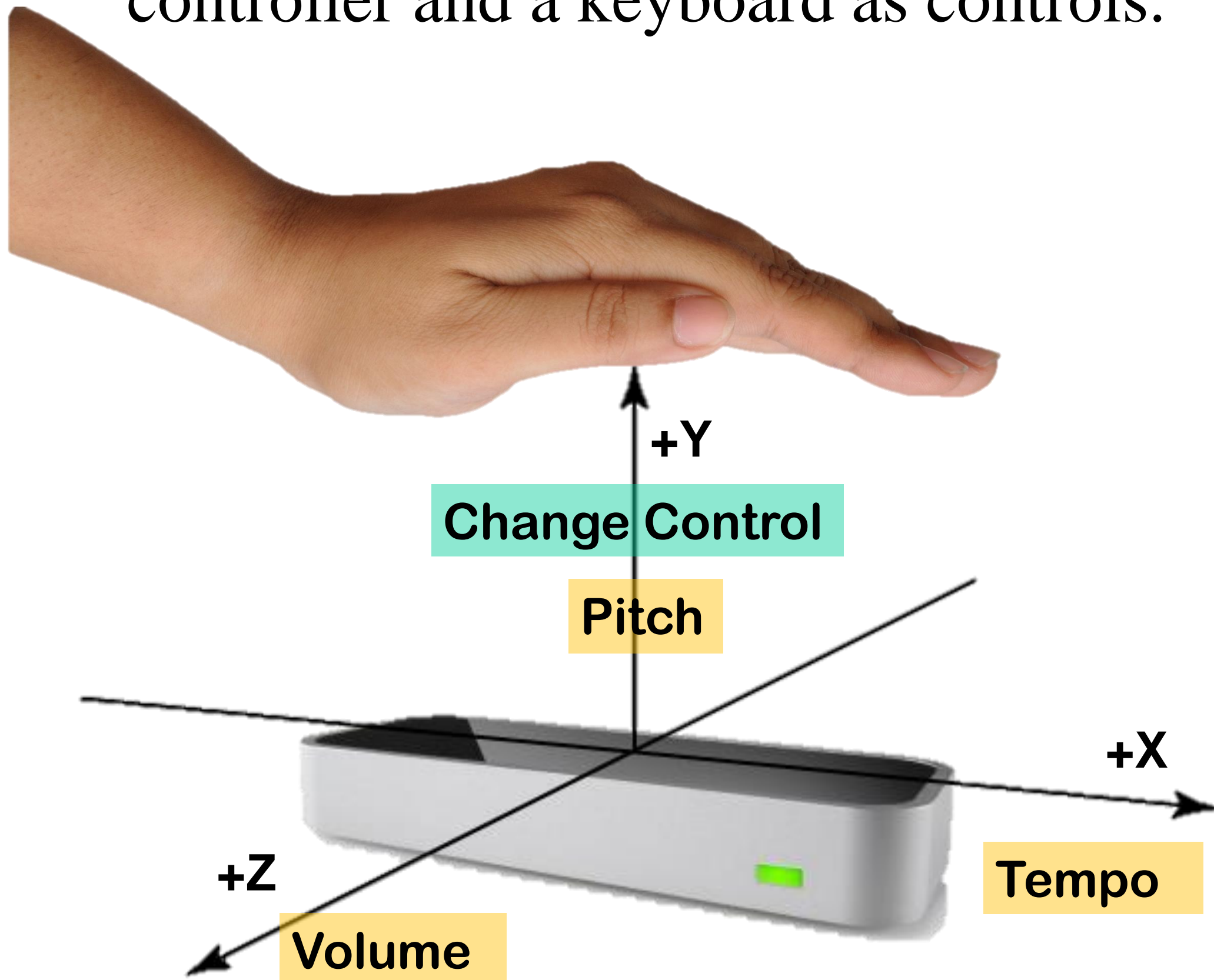
*Controlling music with hand gestures*



Sound Capstone  
Winter 2014

## 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

Restore Default

Track Change:  
A – Down, D – Up

## 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.