

# LAND ACKNOWLEDGEMENT

The southern tip of Vancouver Island (including Victoria and Langford), the San Juan, and the Gulf Islands are the traditional territories of the Lkwungen (Lekwungen) Peoples. Where Camosun College is located was an area rich with resources shared with the neighbouring relations of Schian'exw (Beecher Bay), Ts'ouke (Sooke), Elwa Klallam and Makah.

Lkwungen means “Place to smoke herring”, Lkwung means “to smoke herring” and Lkwungen’athun refers to the language of the land. Lkwungen traditionally and still to-date unites the Esquimalt and Songhees Peoples as one family.

We acknowledge and thank the Lkwungen People, also known as the Songhees, and Esquimalt First Nations communities for their continued stewardship, care, and leadership on these lands. We also give thanks to the ancestors, supernatural ones, hereditary leaders and matriarchs, creatures big and small for looking after the rich resources and cultural teachings of this beautiful land.

- [> The Lands We Walk](http://IPsociety.ca)



# MEET THE TEAM:



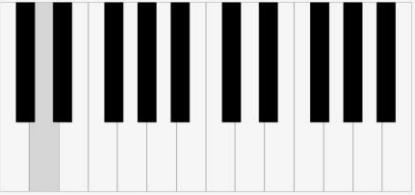
WES MARSEN



ANDREW GOERTZEN



WALKER BRADLEY



# WHAT IS MIDI?



11011111  
10101100

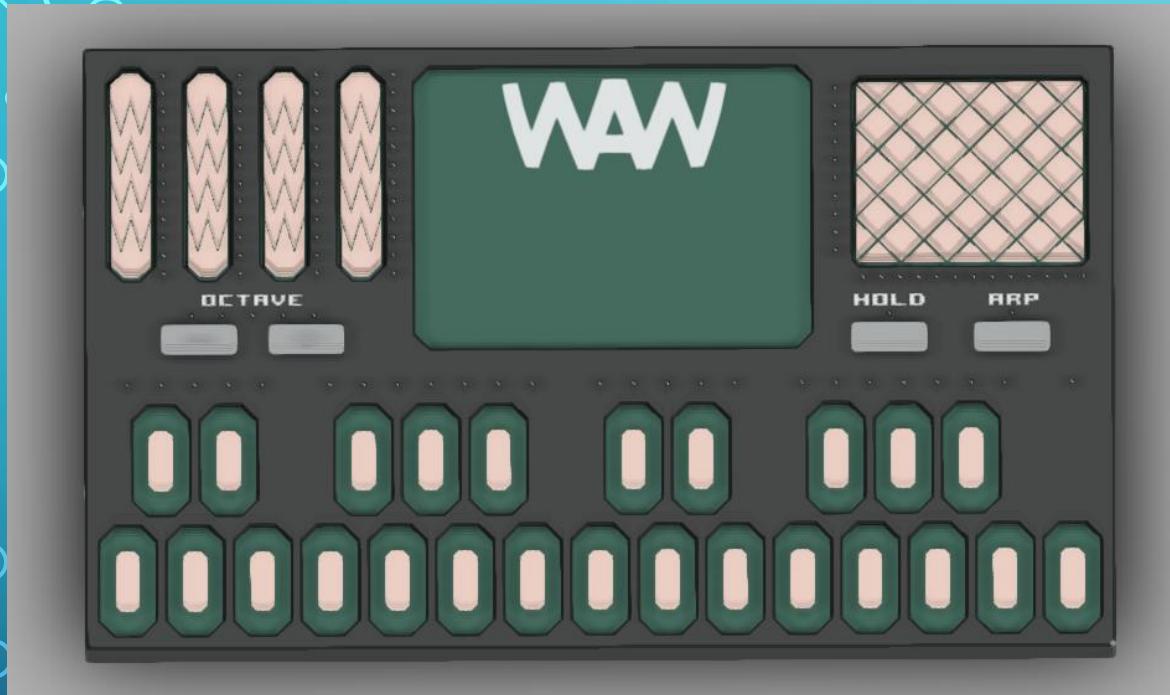


# WHAT IS A MIDI CONTROLLER?

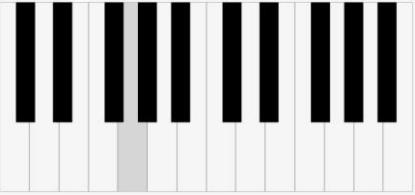
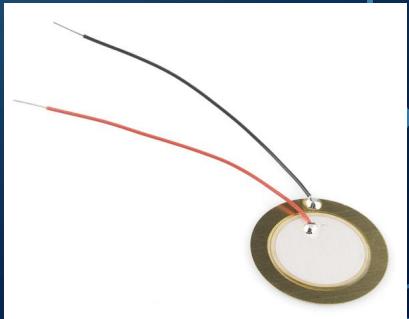
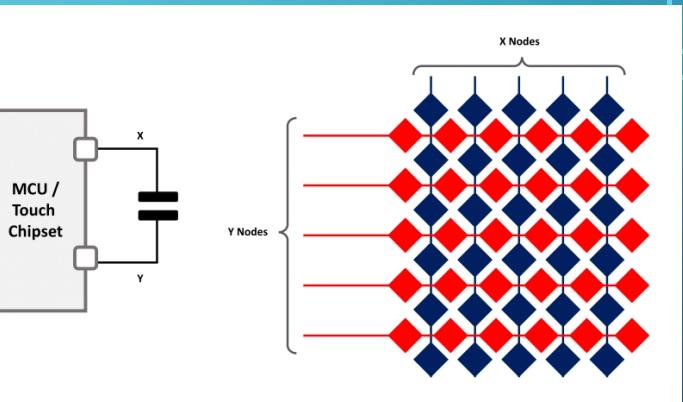
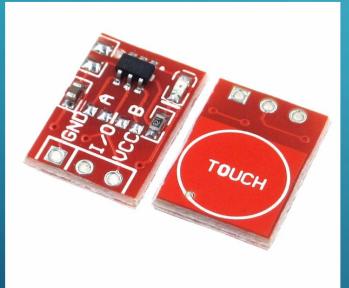
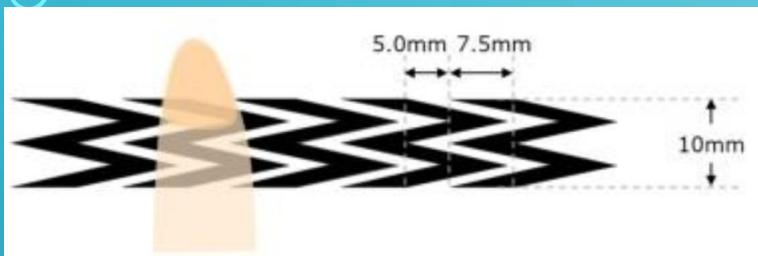


AKAI MPC KEY 37

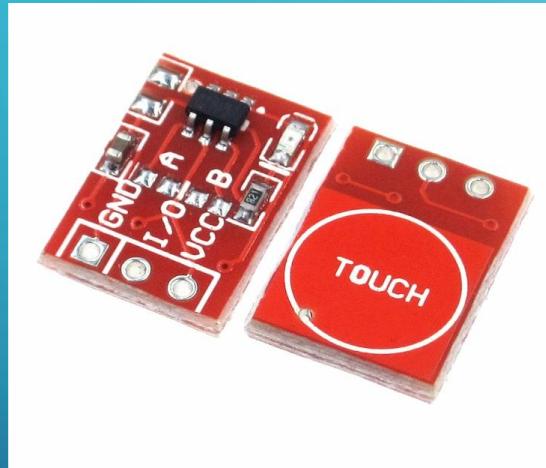
# PURPOSE



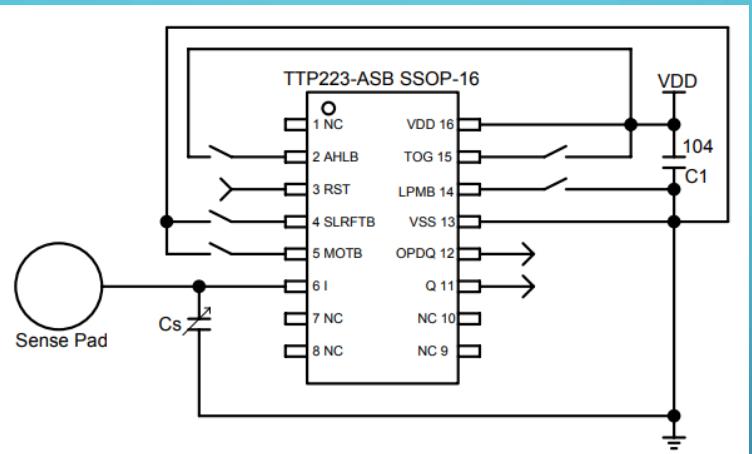
# HARDWARE



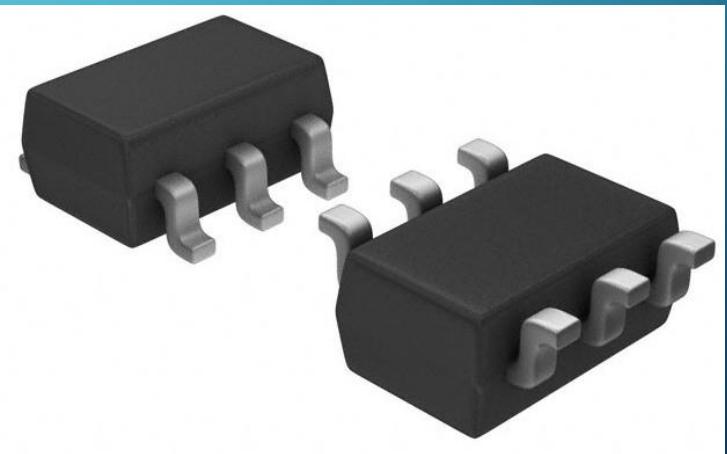
# HARDWARE



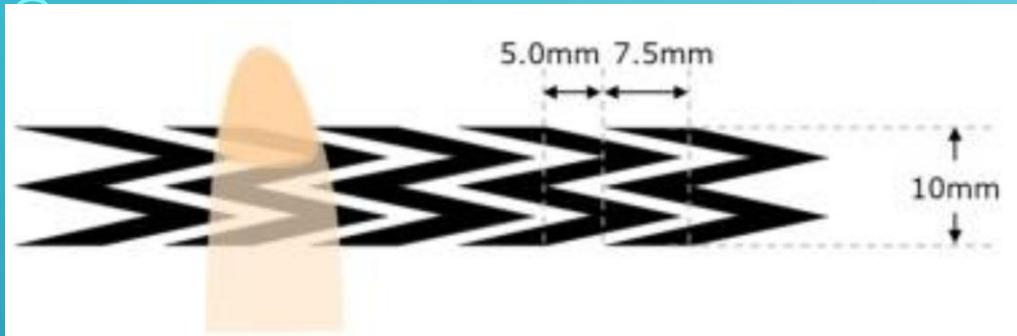
Resistor=? Capacitor=?



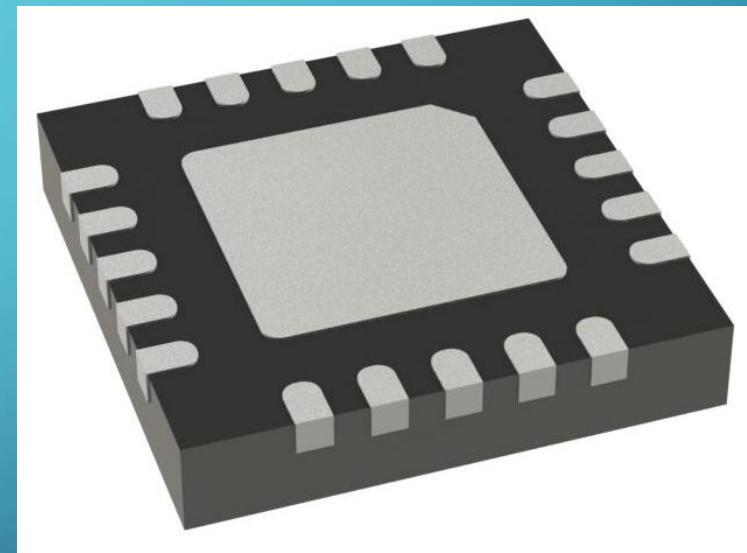
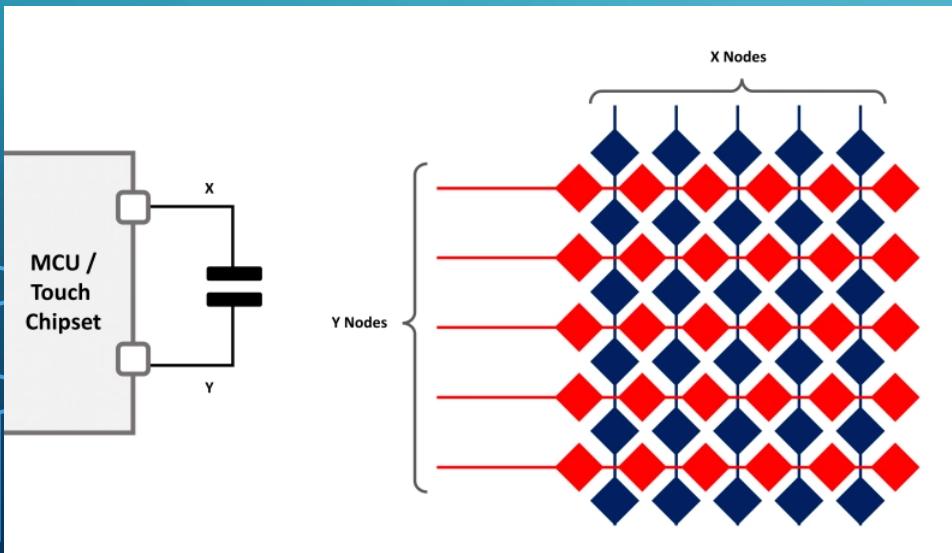
# Capacitive Touch Sensor



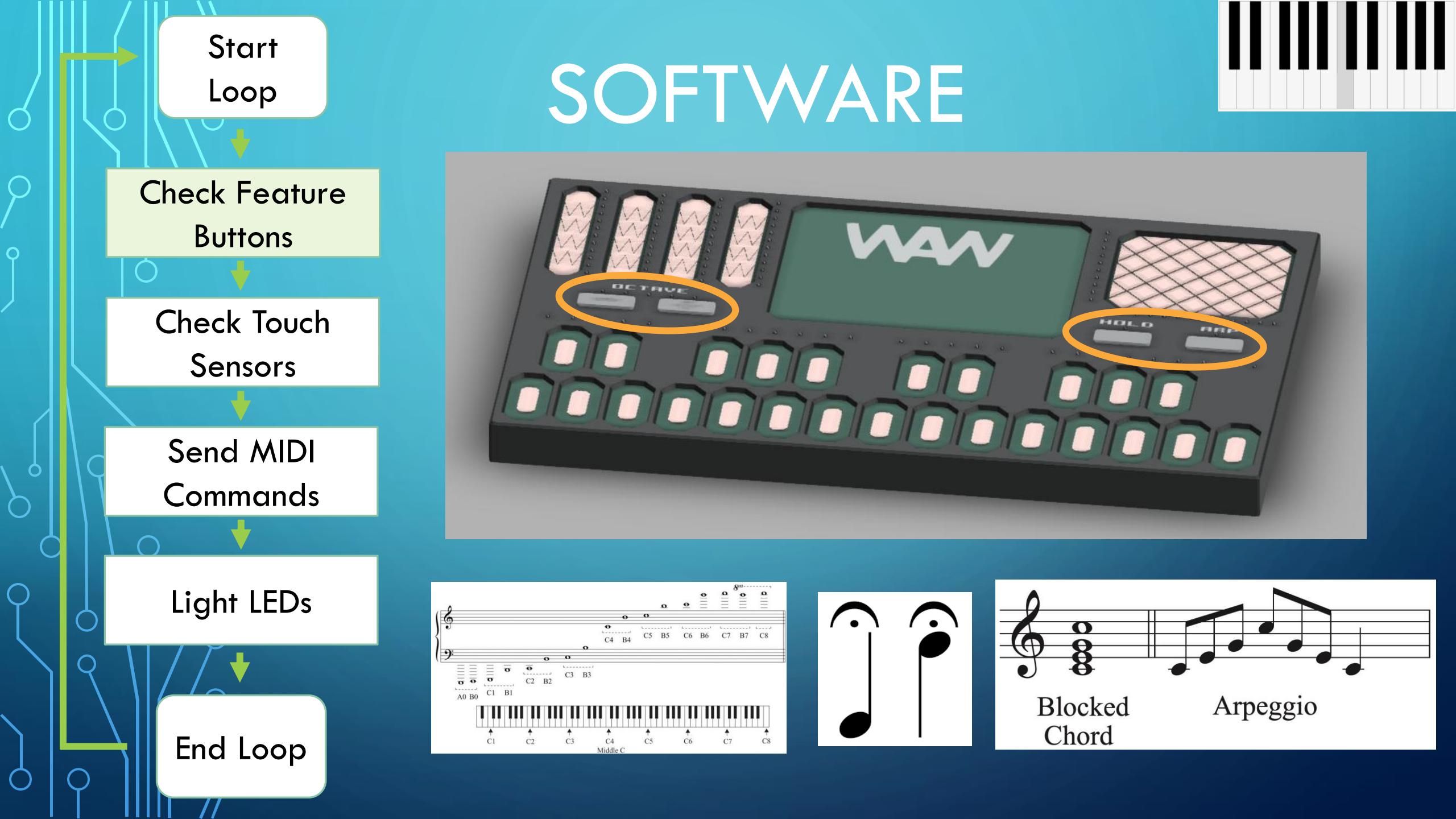
# HARDWARE



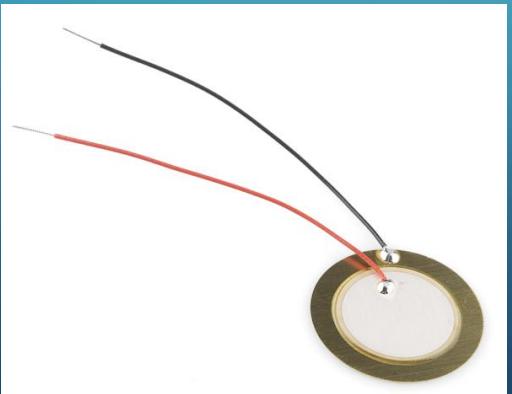
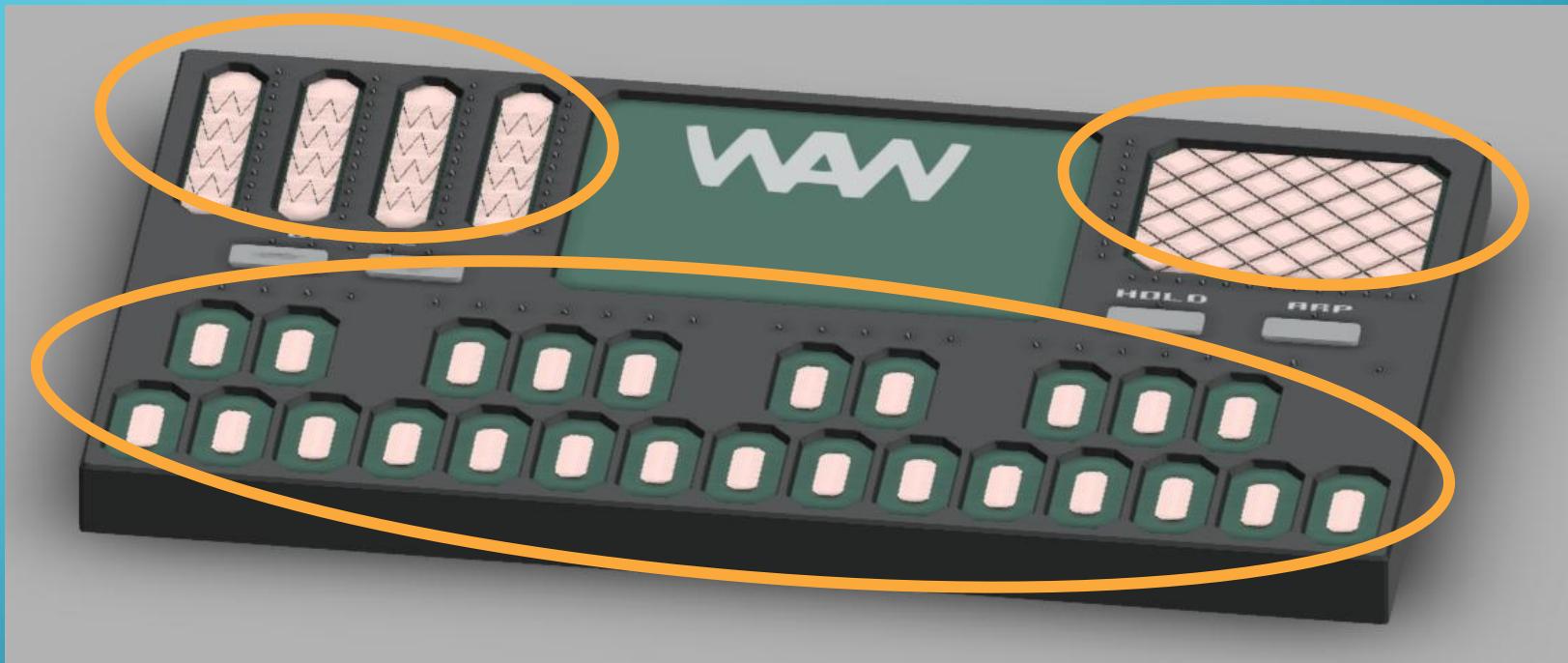
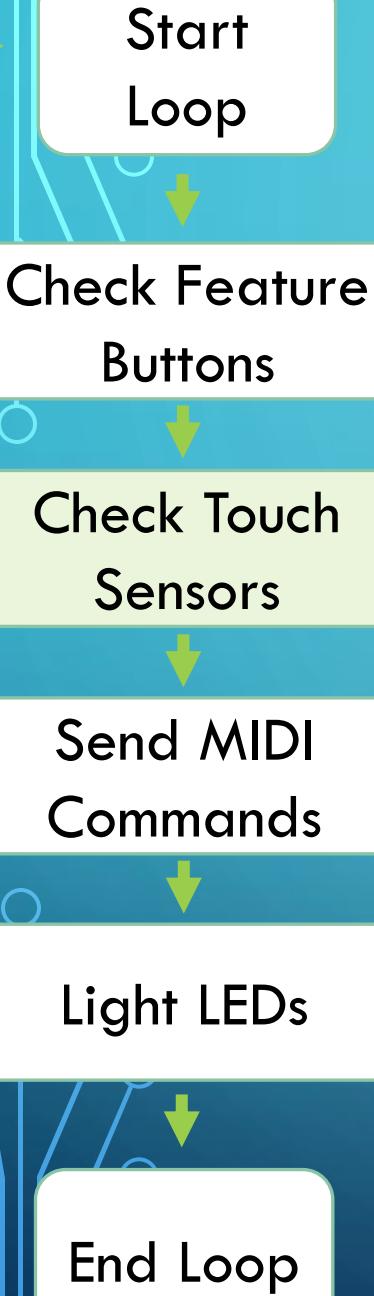
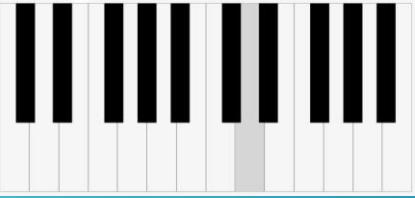
Capacitive touch sliders and XY Pad

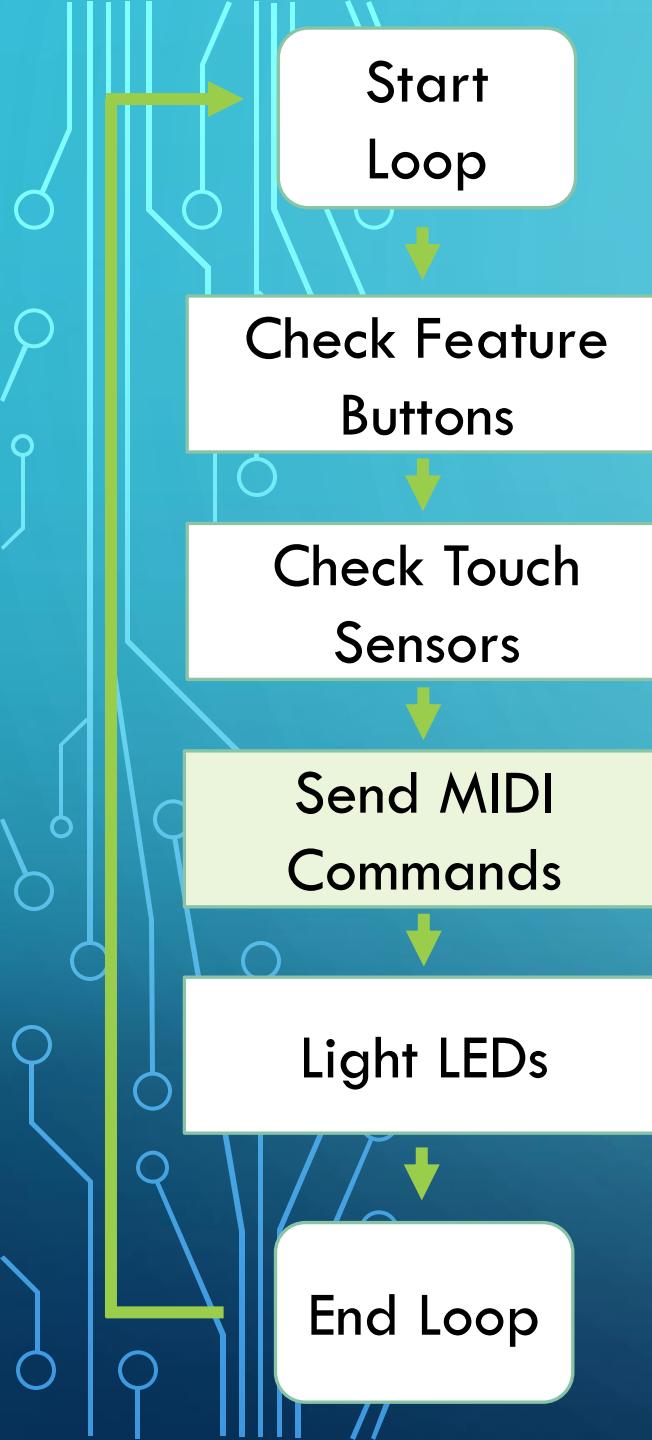


IQS7211A101QNR

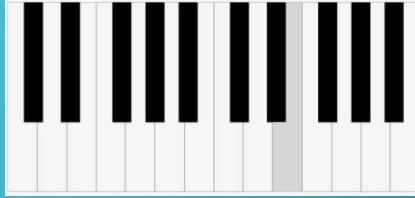


# SOFTWARE





# SOFTWARE



`usbMIDI.sendNoteOn(note, velocity, channel);`

`usbMIDI.sendNoteOff(note, velocity, channel);`

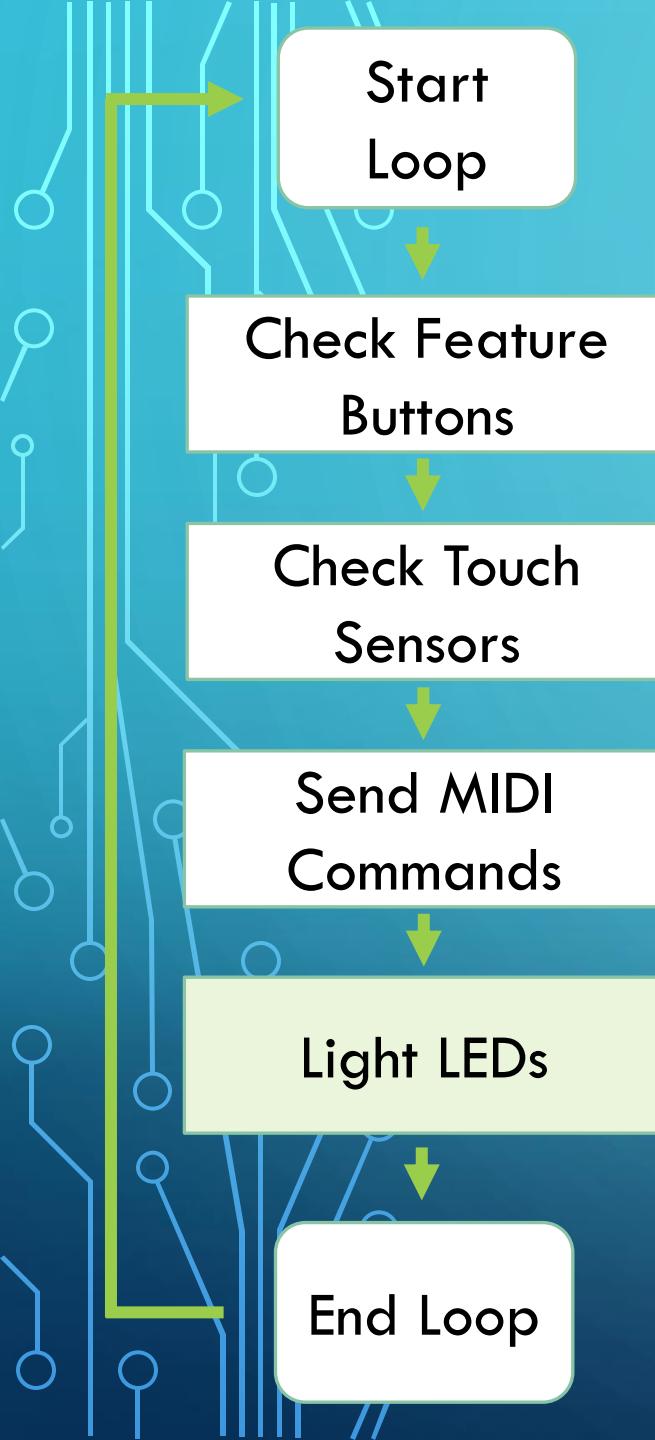
What note  
did you hit?

How hard did  
you hit it?

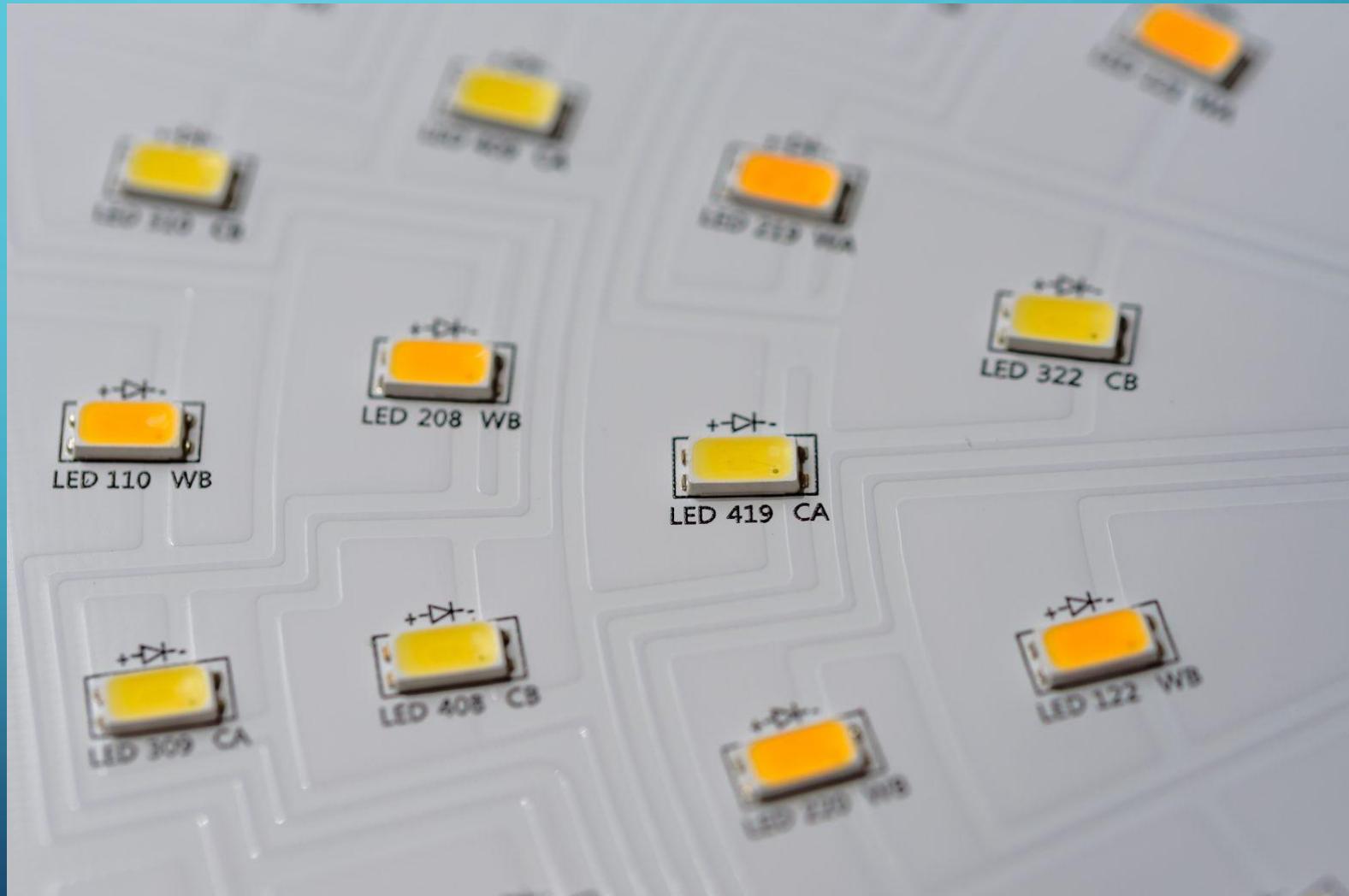
Who needs  
to know?

`usbMIDI.sendPitchBend(value, channel);`

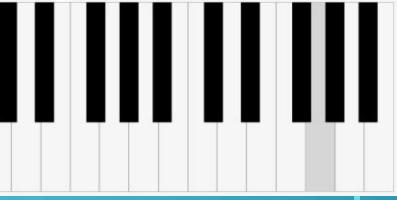
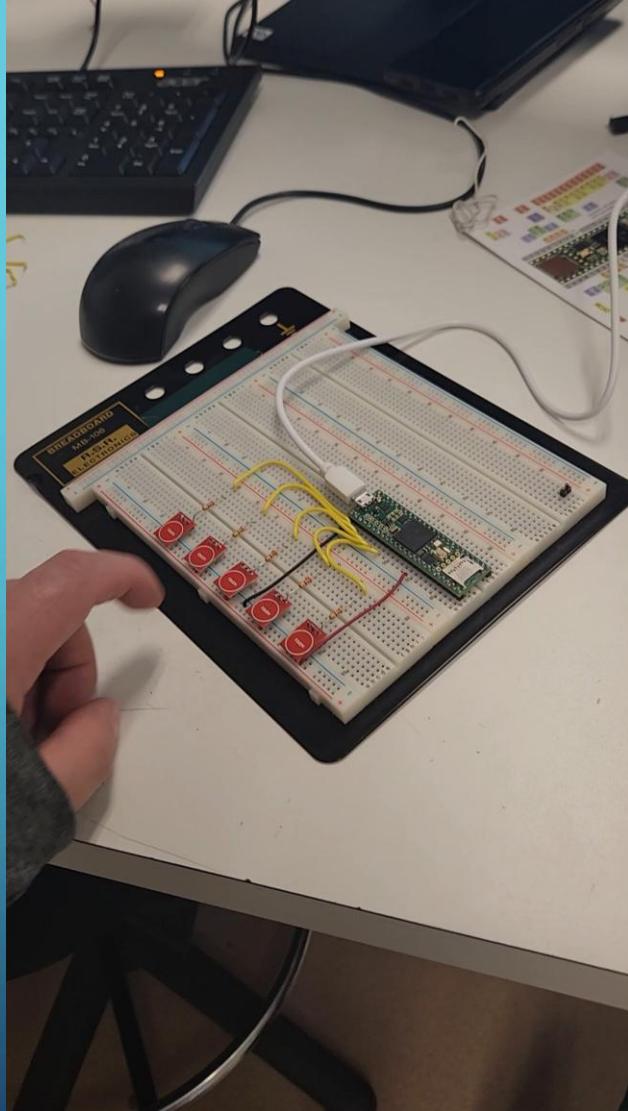
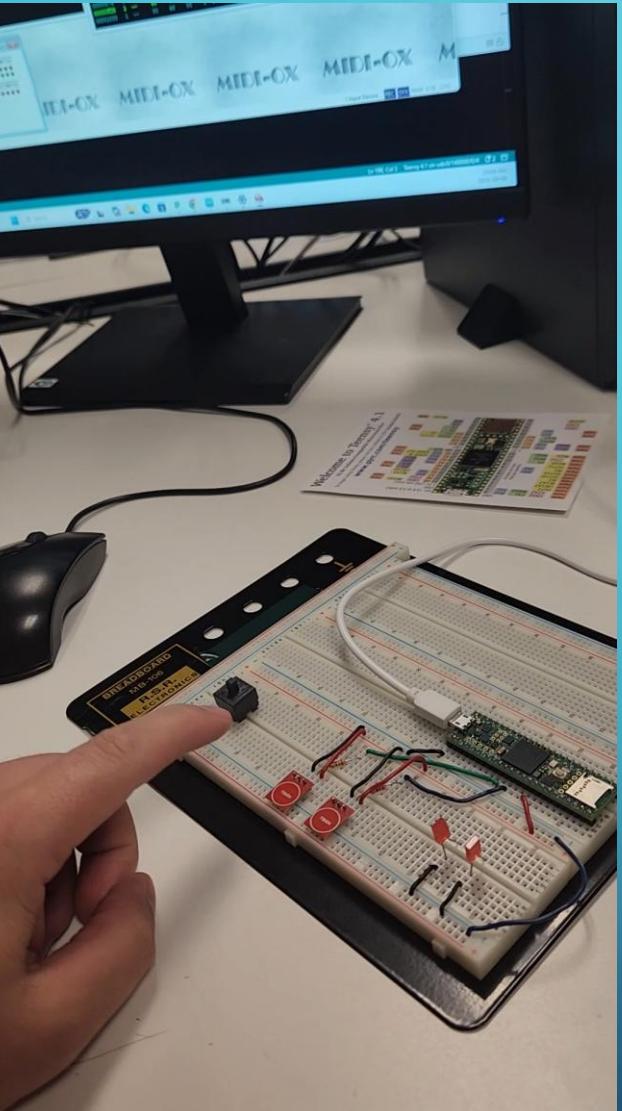




# SOFTWARE



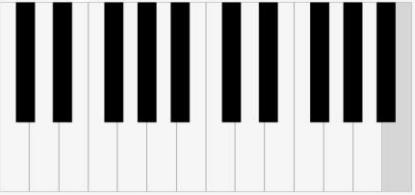
# DEMO!



# CONCLUSION



# PICTURES



- [MPK Mini mk3 MIDI Controller | Akai Pro](#)
- [https://www.cyberlink.com/blog/the-top-audio-editors/171/best-audio-editor?srsltid=AfmBOorAPIzviw1knhY1sh\\_6iYHF-NaGagRT6eoQmJPgzlKn4TXmcwnD](https://www.cyberlink.com/blog/the-top-audio-editors/171/best-audio-editor?srsltid=AfmBOorAPIzviw1knhY1sh_6iYHF-NaGagRT6eoQmJPgzlKn4TXmcwnD)
- [LPD8 MKII Laptop Pad Controller | Akai Pro](#)
- [MPC Key 37 The Keys To Inspiration | Akai Pro](#)
- [Red tulips on yellow tulips field photo – Free Flower Image on Unsplash](#)
- [AT42QT1010-TSHR Microchip Technology | Integrated Circuits \(ICs\) | DigiKey](#)
- [Capacitive Touch sliders and wheels support - Cap Touch Talk - Capacitive Touch \(Cap Touch\) - Renesas Engineering Community](#)
- [IQS7211A101QNR Azoteq \(Pty\) Ltd | Integrated Circuits \(ICs\) | DigiKey](#)
- <https://musictheorytutoring.weebly.com/octave-identification.html>
- <https://www.hoffmanacademy.com/blog/how-to-play-easy-piano-arpeggios>
- <https://method-behind-the-music.com/theory/notation/>
- <https://www.amazon.ca/TTP223-Button-Capacitor-Channel-Locking/dp/B088NVYMYB>
- <https://www.amazon.ca/SparkFun-15344-Capacitive-Touch-Slider/dp/B07T4TP7K6>
- <https://www.sparkfun.com/piezo-element.html>
- <https://everyguitarchord.com/guitar-bends-how-to-bend-guitar-strings/>
- <https://www.waveformlighting.com/pcb-designs/what-is-the-difference-between-led-package-types-such-as-3528-5050-and-2835>
- [Green chilli photo – Free Food Image on Unsplash](#)