

The NibbleTronic

A MIDI Wind Controller

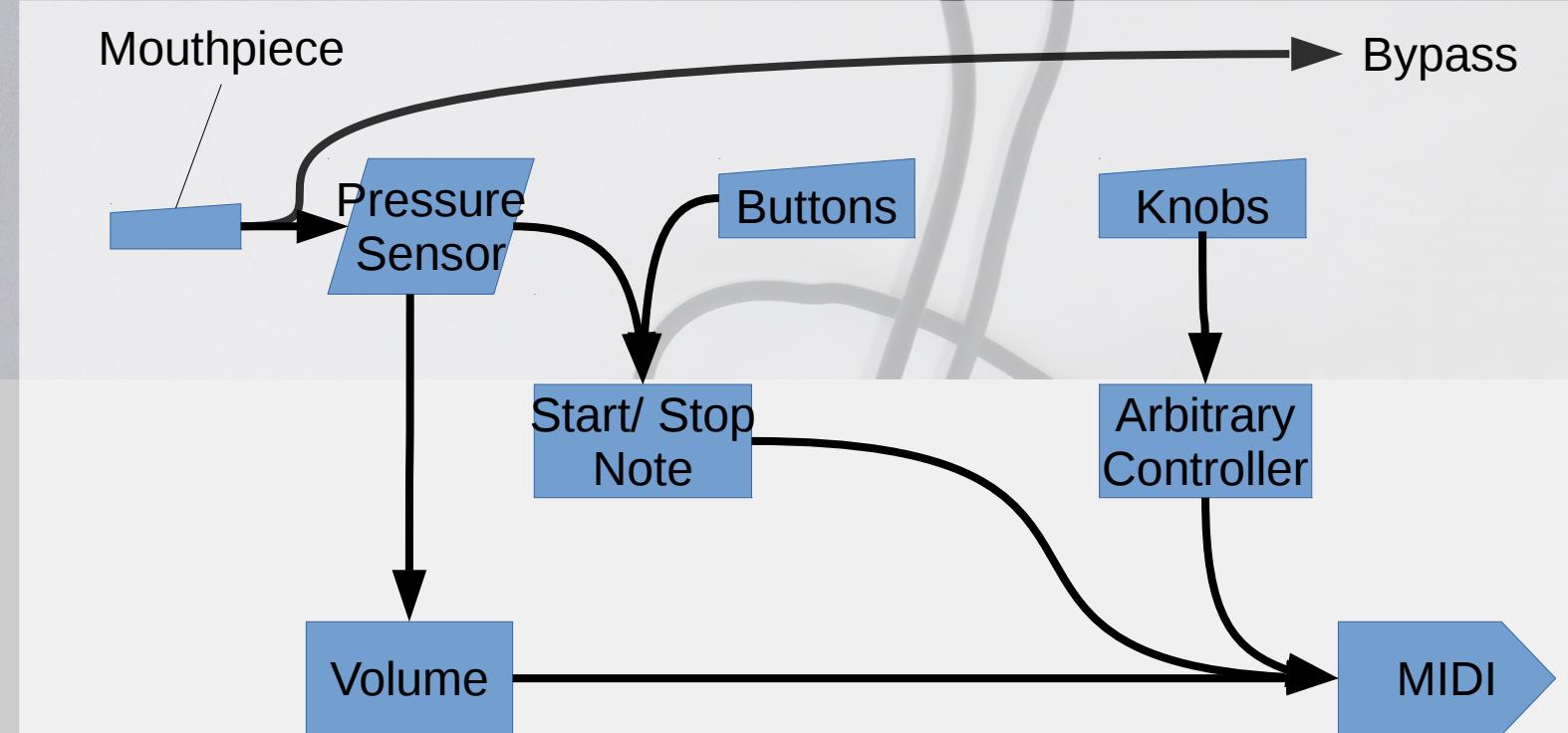
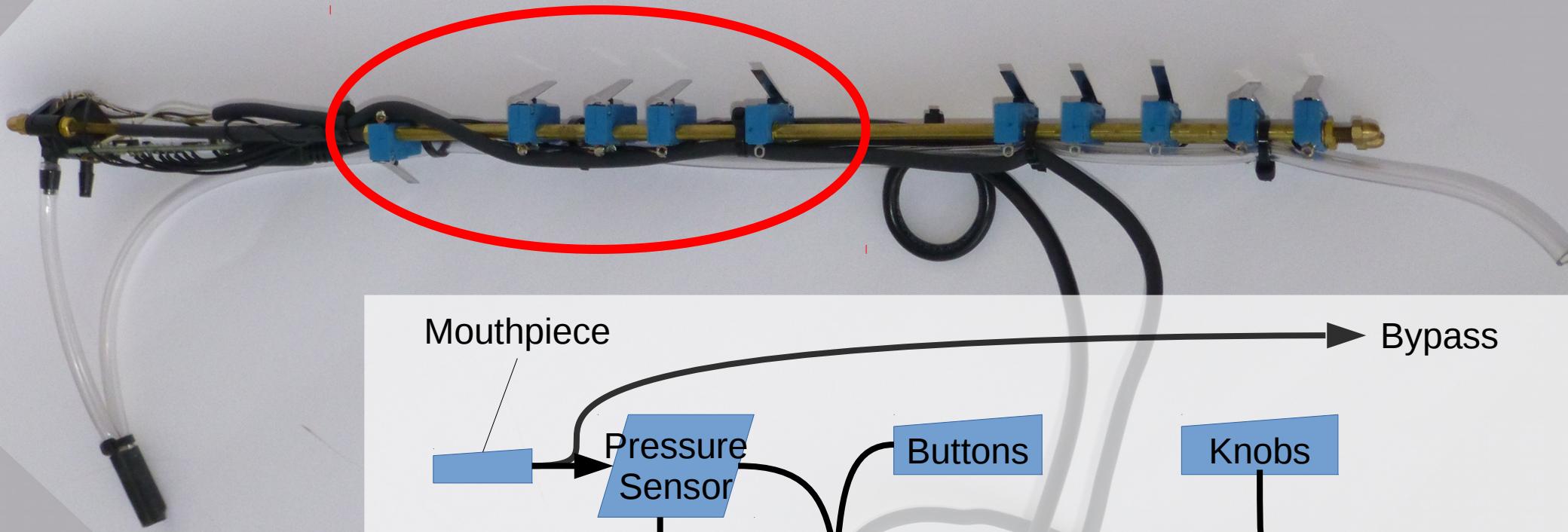
Outline

- The NibbleTronic electronic wind instrument (EWI)
- Its development
- Other EWIs
- Reflections on the role of EWIs

Mouthpiece

Buttons

Sliders



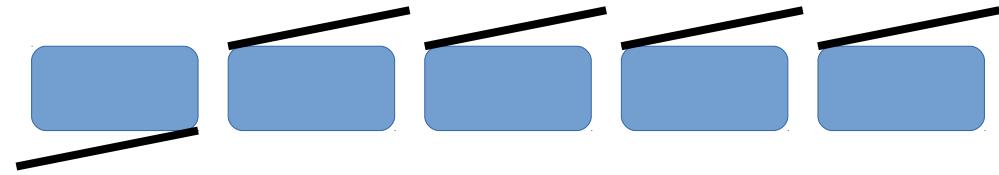
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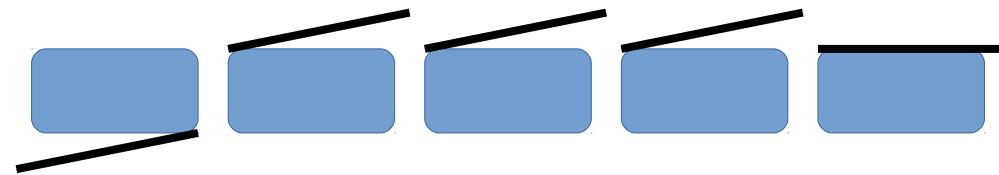
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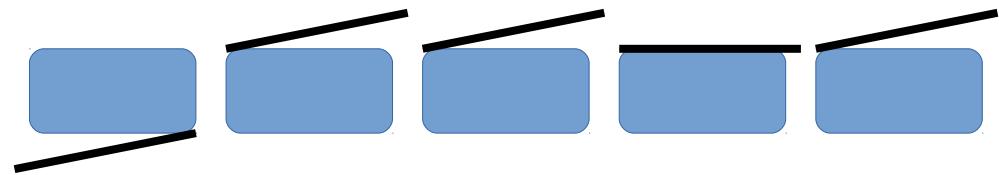
1



$$= 0$$



$$= 1$$

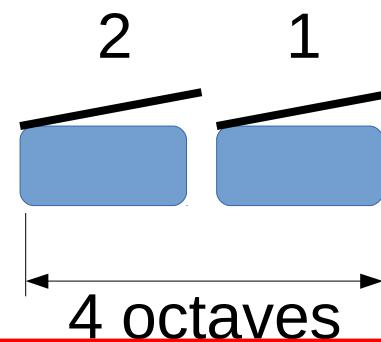
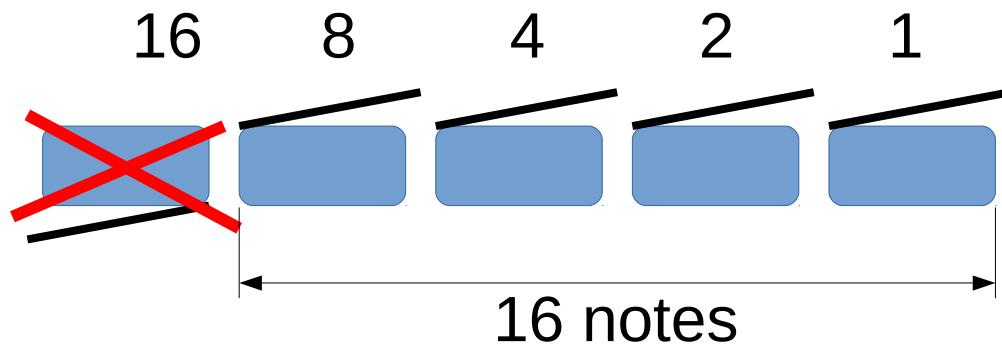


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...



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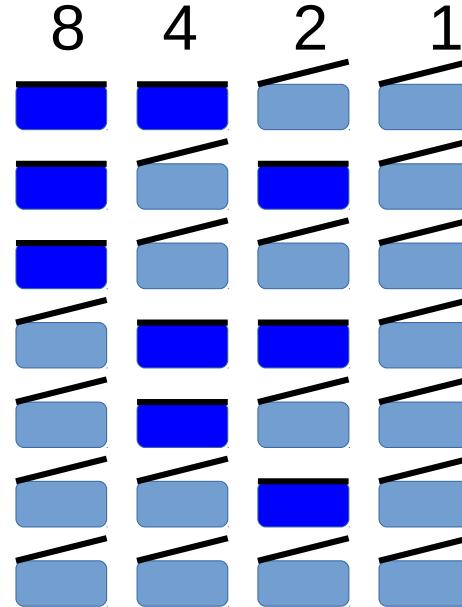


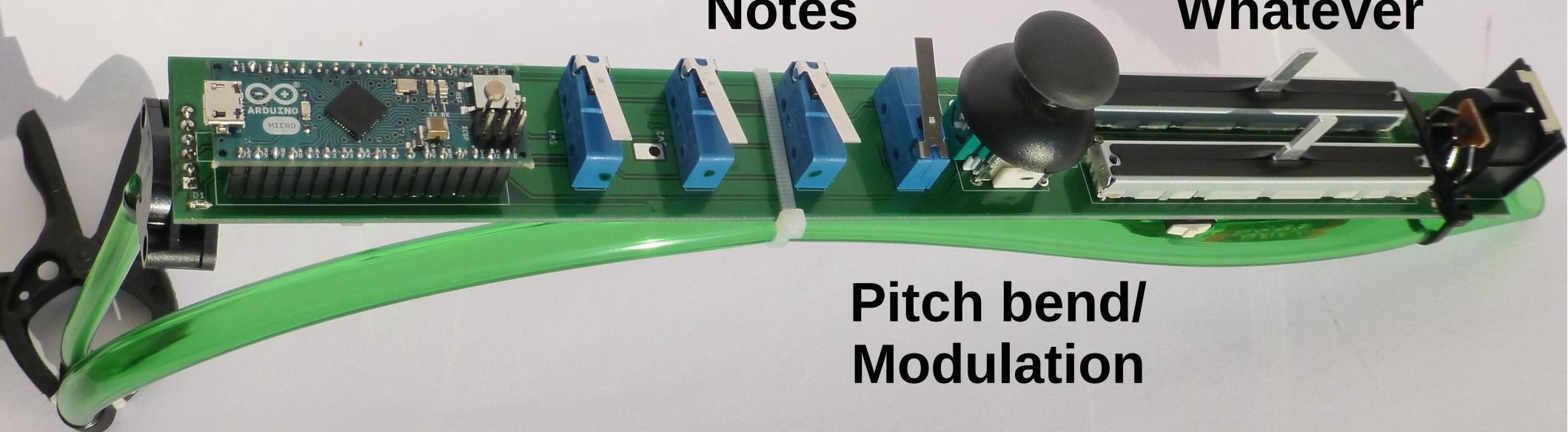
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G#: 8	A: 9
E#: 5	F: 6
D#: 3	E: 4
C#: 1	D: 2
	C: 0



C: 13 / 14	B: 12
A#: 11	A: 10
G#: 9	G: 7 / 8
E#: 5	F: 6
D#: 3	E: 4
C#: 1	D: 2
	C: 0

	C: 13 / 14
A#: 11	B: 12
G#: 9	A: 10
	G: 7 / 8
E#: 5	F: 6
D#: 3	E: 4
C#: 1	D: 2
	C: 0

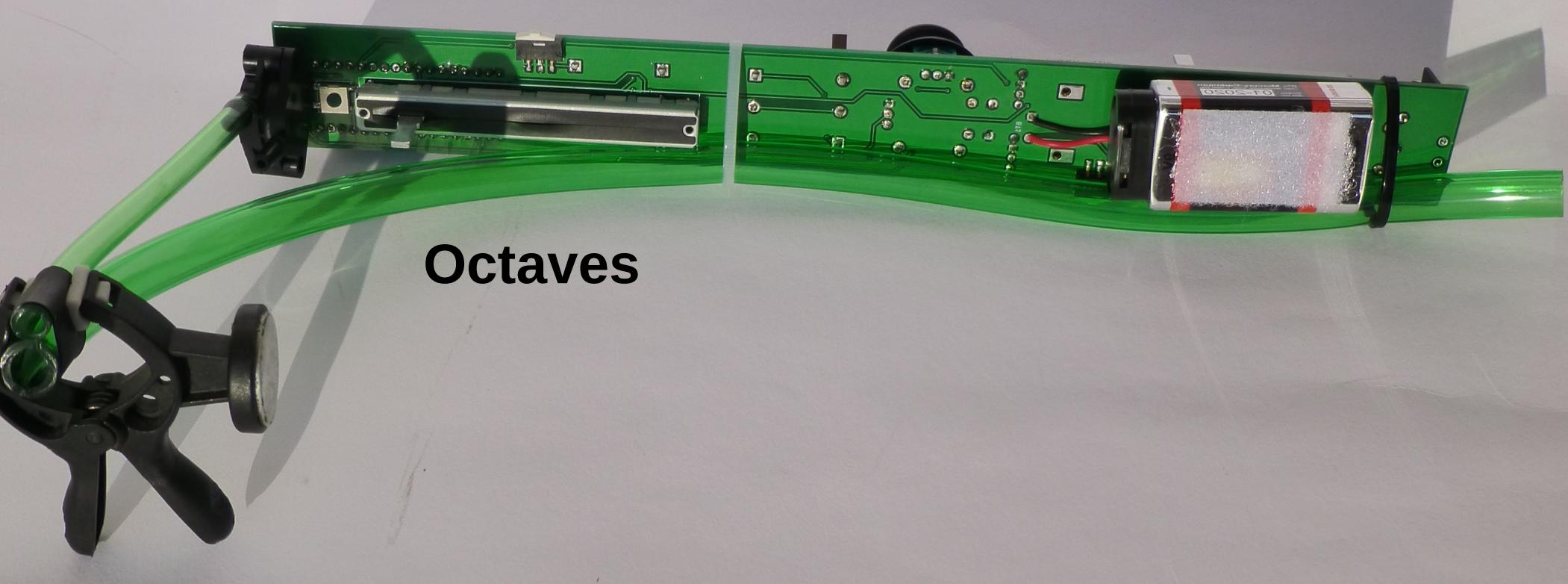




Notes

Whatever

Pitch bend/
Modulation



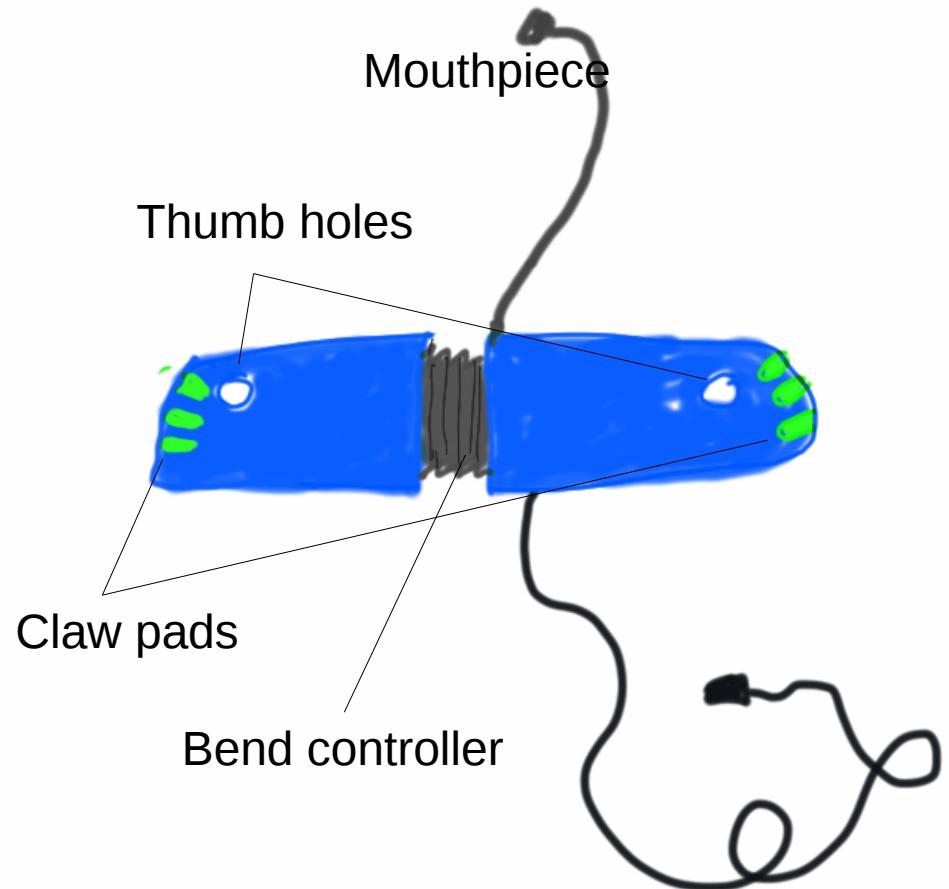
Octaves



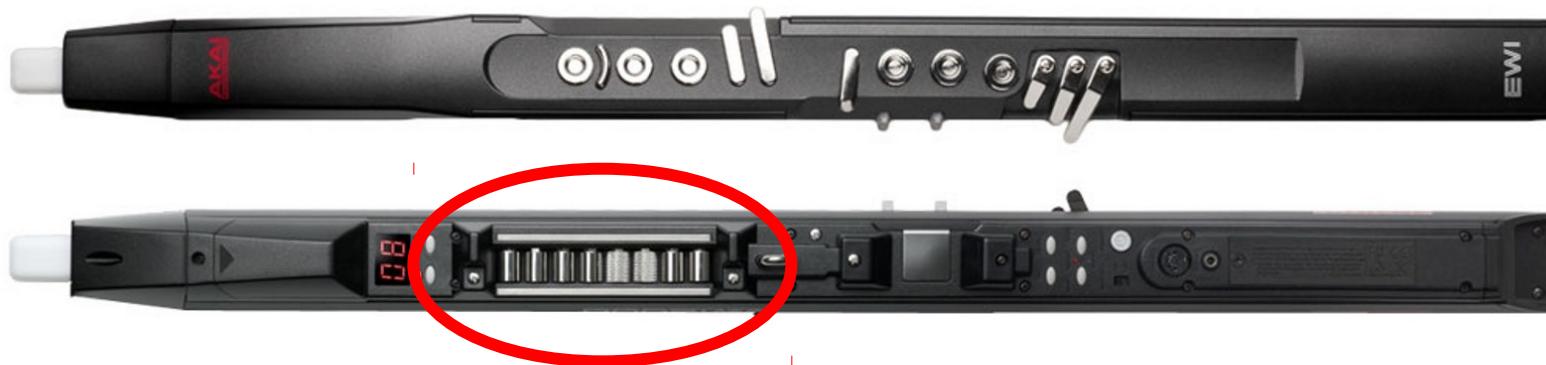
Reasons to use an EWI

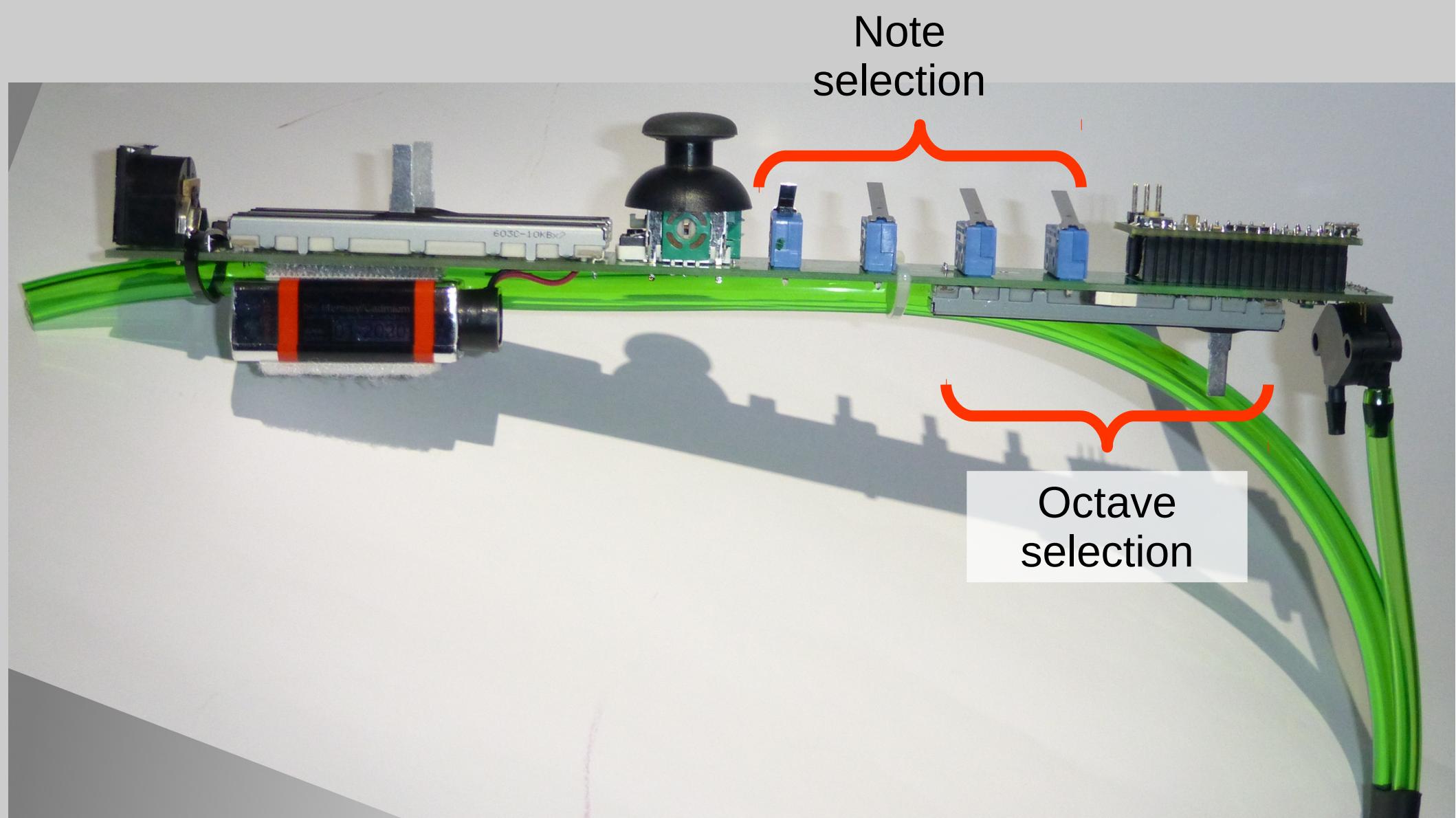
- Practice in silence
- Create a unique sound
- Do things that traditional instruments can't
 - Record input instead of sound
 - Quantize input
- Use a non traditional control scheme
 - Fewer buttons
 - Foot pedals

EWI for a T-Rex



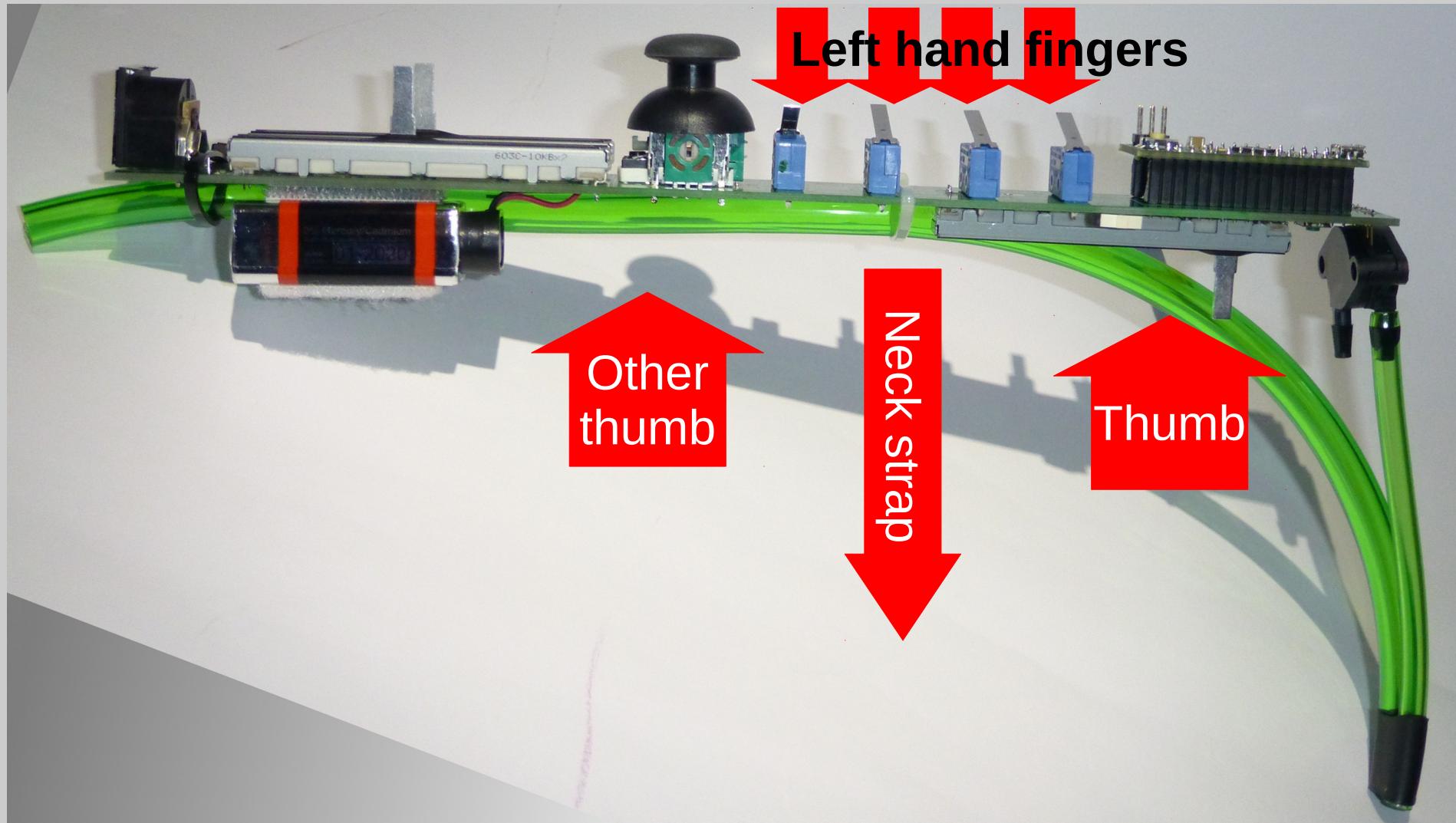
A Mystery



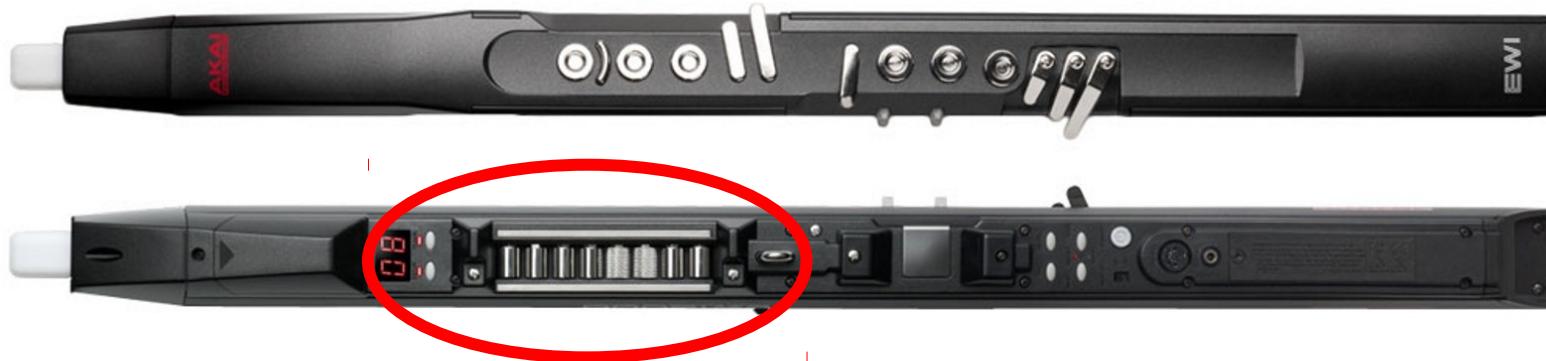


Note
selection

Octave
selection



Parallel Evolution



- Metal rollers to change the octave
- React to touch rather than pressure
- Give great haptic feedback

Conclusions

- EWIs exist since the 60s
- They are well documented DIY projects
- Fill a niche
- You probably should build one

Sources

- The Gordophone blog: <http://gordophone.blogspot.de/>
- Patchman Music: <http://www.patchmanmusic.com/>
- Hopkins Electronic Aerophone:
<https://hackaday.io/project/2992-hopkins-electronic-aerophone>
- NibbleTronic:
<http://www.schlimme-gegend.de/schlimme-ideen/nibbletronic/>

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