presentation-notes

Tim Anderson

TODO Finish Website & Mirror Presentation Notees TODO Gather Raw Data for Presentation

Prices Ali Express for Keycap Price Digikey for Hardware Cost Collect Info & Tutorial Sources for

Who Am I?

Tim Anderson

- https://github.com/mcdviii
- http://aberrent.online

I work in manufacturing as a machine operator for a local furniture manufacturer. I tinker with electronics & free software on my free time.

Why would you want or need this?

Benefits of Ergo keyboards

While browsing around looking at these ergonomic keyboards I see a recurring question: "Why would you need/want that." It seems like a fair question. I imagine in the eyes of an uninitiated it would seem like RGB lighting on a personal computer: expensive, showy & unnecessary. But I would argue there are real health benefits to using a proper ergonomic keyboard.

My personal reasons

1. I consider my hands to be my greatest physical asset, aside from what's floating around in my skull.

History of Typwriter According to Matt Addereth

Other relatable reasons (Programmers, emacs pinky)

1. Only a normie would use an OEM keyboard!

RSI Injuries & How to Avoid Them

- I am not a doctor! I just searched causes for RSI issues! Don't shoot me!

Ulnar deviation

Notable Mentions

Kinesis Advantage2

- Advantages:
- Disadvanteges: $320.00 USD
- Open Source: No

ErgoDox

Let's Split

Atreus

Signum (Troy Fletcher)

Other Dactyl Variations

Ergo Dactyl

Lightcycle Dactyl

Dactyl Manuform

What is the Dactyl Keyboard?

History or Background

Matt's Clojurcon Youtube Video

Matt's Reasons for making the design

Dactyl was Written in Clojure with the Help of OpenSCAD

Reasons for Choosing Dactyl

- Kinesis Advantage form factor
- Open Source
- Looked like the most comfortable design
- Also looked hella cool

Dactyl Project

My Reasons for Building by Hand Instead of Purchasing

- At the time there were none being manufactured
- Sense of self-satisfaction
- Building my own helps me to improve the project by contributing personal improvements back (Open Source)
- I already own a 3D printer
- Screw paying someone else >$300, I'll just build my own!
- One year later joke

Build Overview

Shell/Case

Switches & Keycaps

Hardware

PCB & Wiring

Firmware

How Does it Work?

- Explain matrix positions

Challenges

- Which way to wire the diodes
- How the keyboard is controlled by the MC (key matrix)

Where To Buy

- I have no affiliation or experience with the following. YMMV!

MassDrop

- Crowd sourced limited manufacturing.

ErgodoxEZ

OhKeycaps.com