

Kind of Different Keyboard

Jan Gaura

Myself

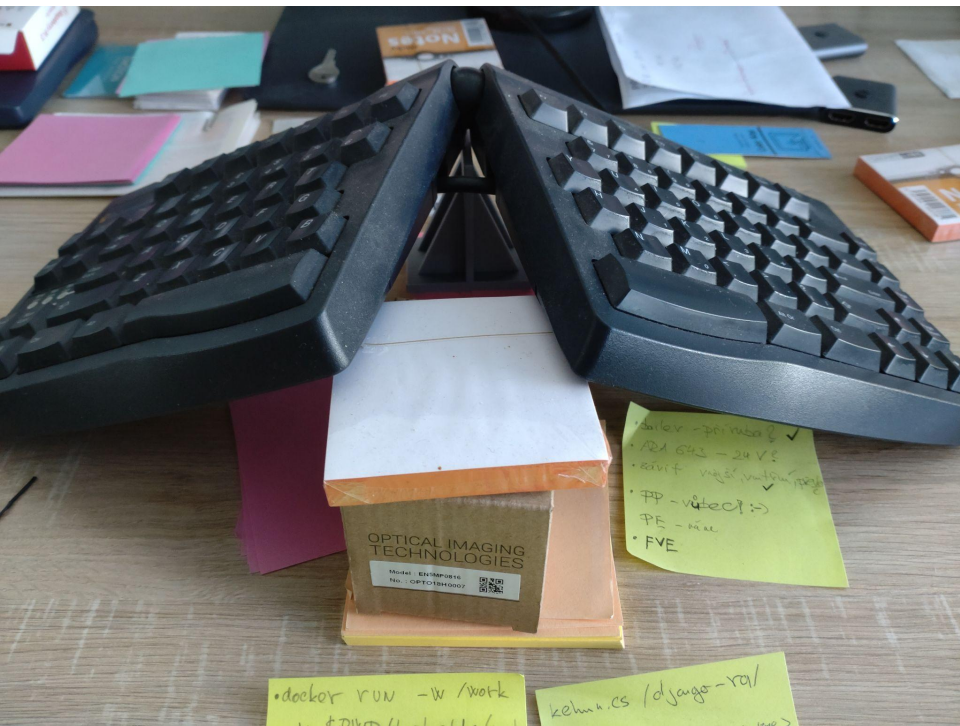
- Jan Gaura
- Department of Computer Science
- Media Research Lab
- Teaching
- Industrial Projects



AIRBUS

Honeywell

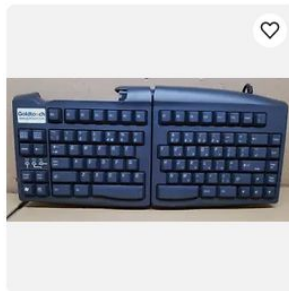
Isn't it broken? How can you write on it!?



It is broken actually :-)

- Breaking of central joint is quite common

<https://ebay.com>



Goldtouch- SKR-4200U (PS-2) Keyovation ergonomická nastavitelná dělená klávesnice

Použitý

853,76 CZK

Koupit nyní

+448,66 CZK odhad dopravy

z Spojené království

Počet sledujících: 2

K dispozici jsou celní služby a mezinárodní sledování
buzegrupsLtd (2 479) 98,6%



Drahtloses Mini-Bluetooth-Tastatur-Touchpad für Laptop-Tablet Iphone Android K

Zcela nový

162,71 CZK do 172,97 CZK

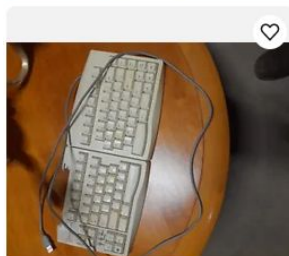
Koupit nyní

+48,62 CZK doprava

z Čína

Nejlépe hodnocený prodejce

seeseeskybig (2 030) 97,5%



dělená ergonomická klávesnice Goldtouch Key Ovation

Použitý

540,89 CZK

Koupit nyní

+1 138,44 CZK doprava

z Spojené království

Na dobročinné účely

sheffieldreuse (1 736) 99,8%

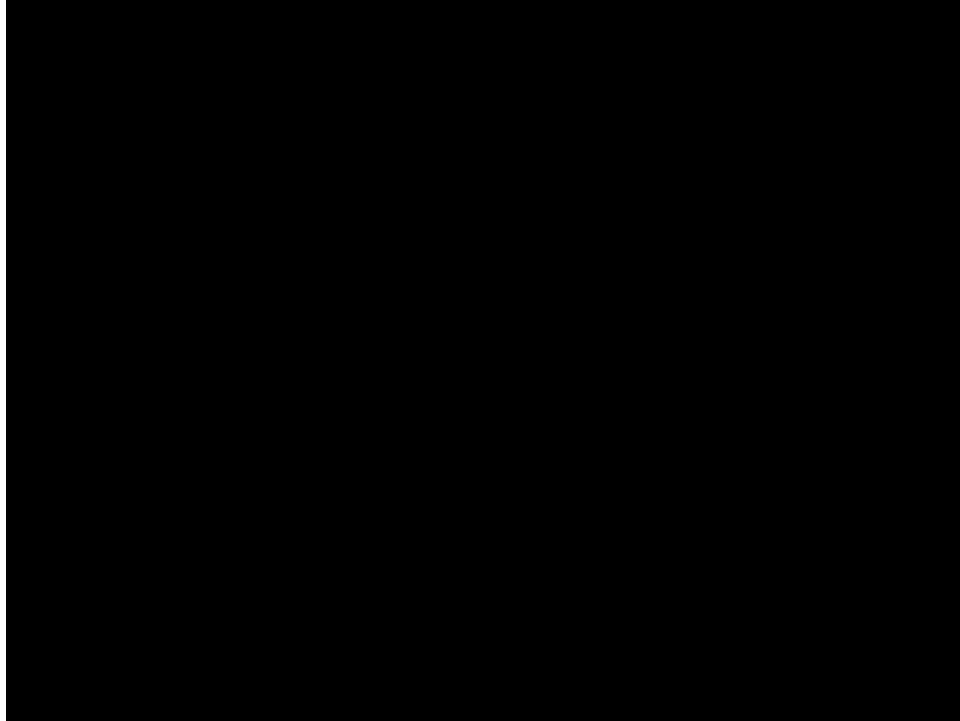
A Bit of History



<https://en.wikipedia.org/wiki/Typewriter>



Demo

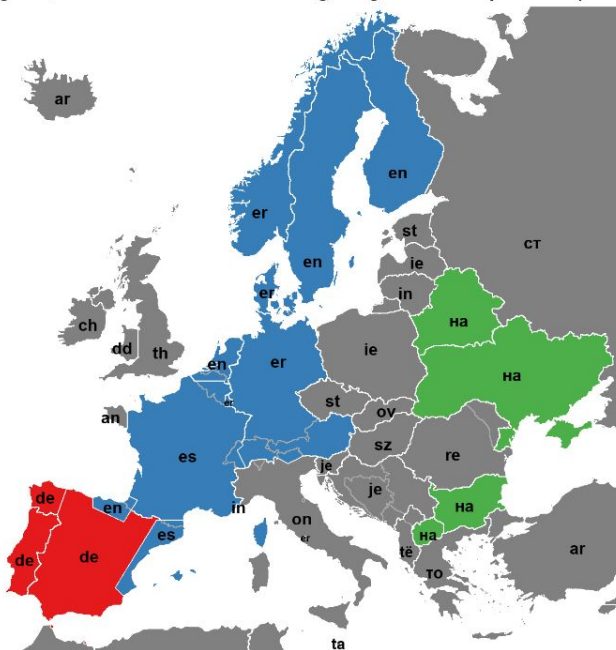
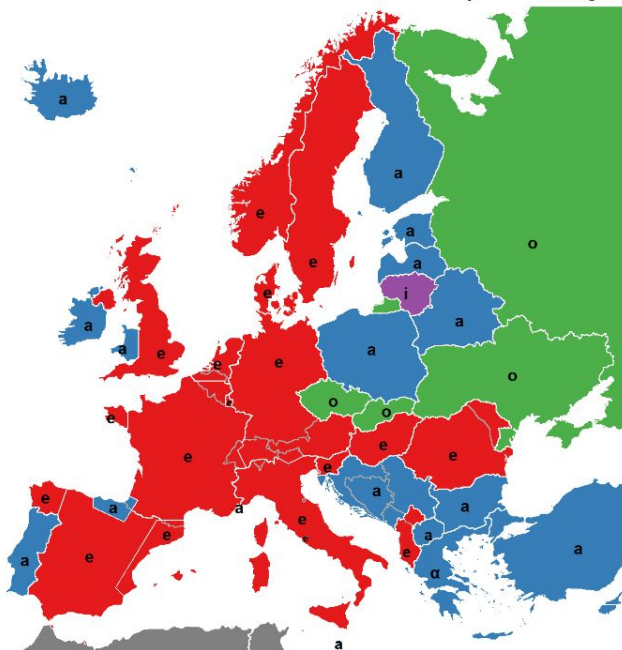


Typewriter characteristics

- Notorious QWERTY layout
- Try to type: TYPEWRITER and you see, you can do it on a single row of keys
- This was a marketing trick to show you can write fast :-)

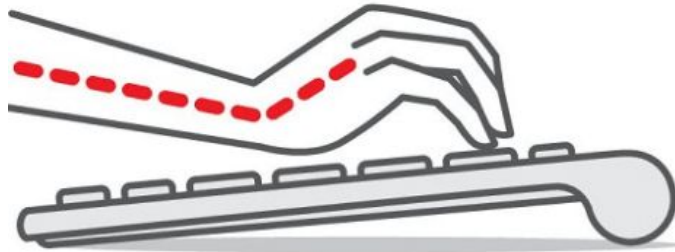
THE MOST COMMON LETTERS, LETTER PAIRS AND LETTER TRIPLETS

in different European languages, based on each language's Wikipedia (source: <http://simia.net/letters>)



Physiology of typing on a keyboard

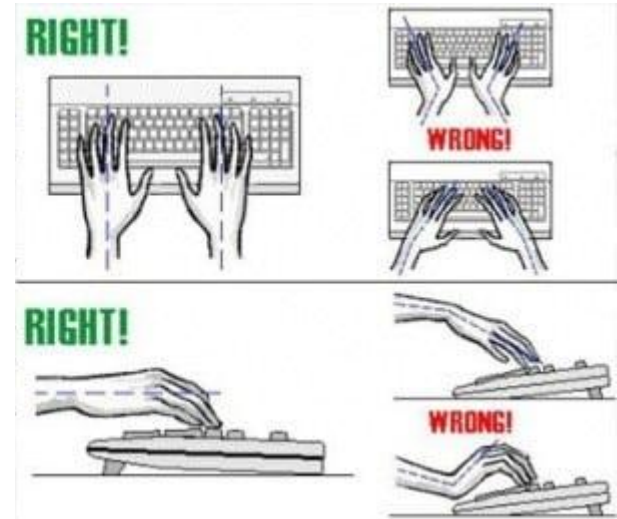
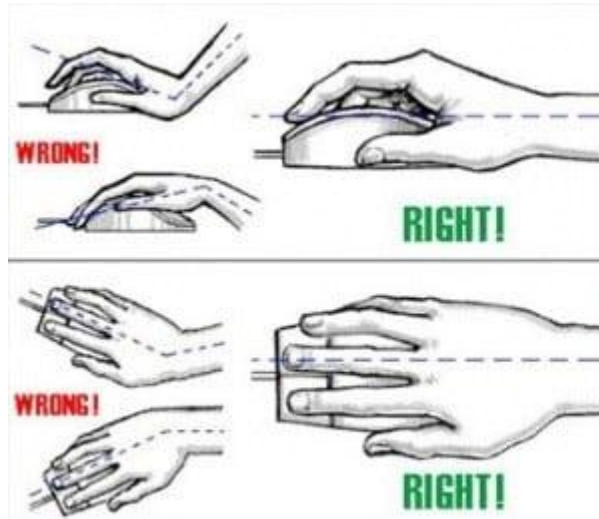
WRONG!



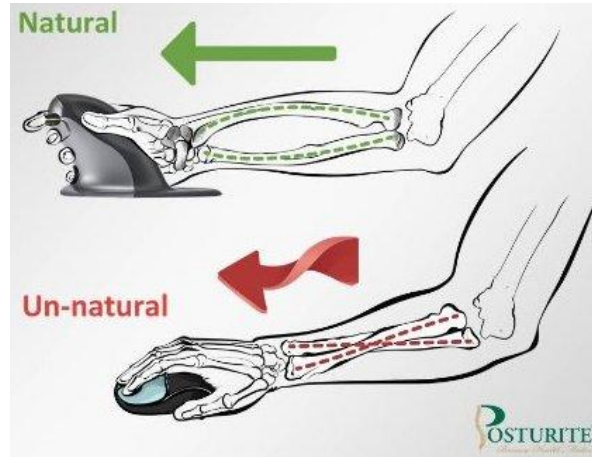
RIGHT



Physiology of typing on a keyboard



Physiology of mouse holding



Super Duper Modern Butterfly Keyboard

Let's solve it

Planc

- Easy to transport
- Columnar keyboard
- Symmetry

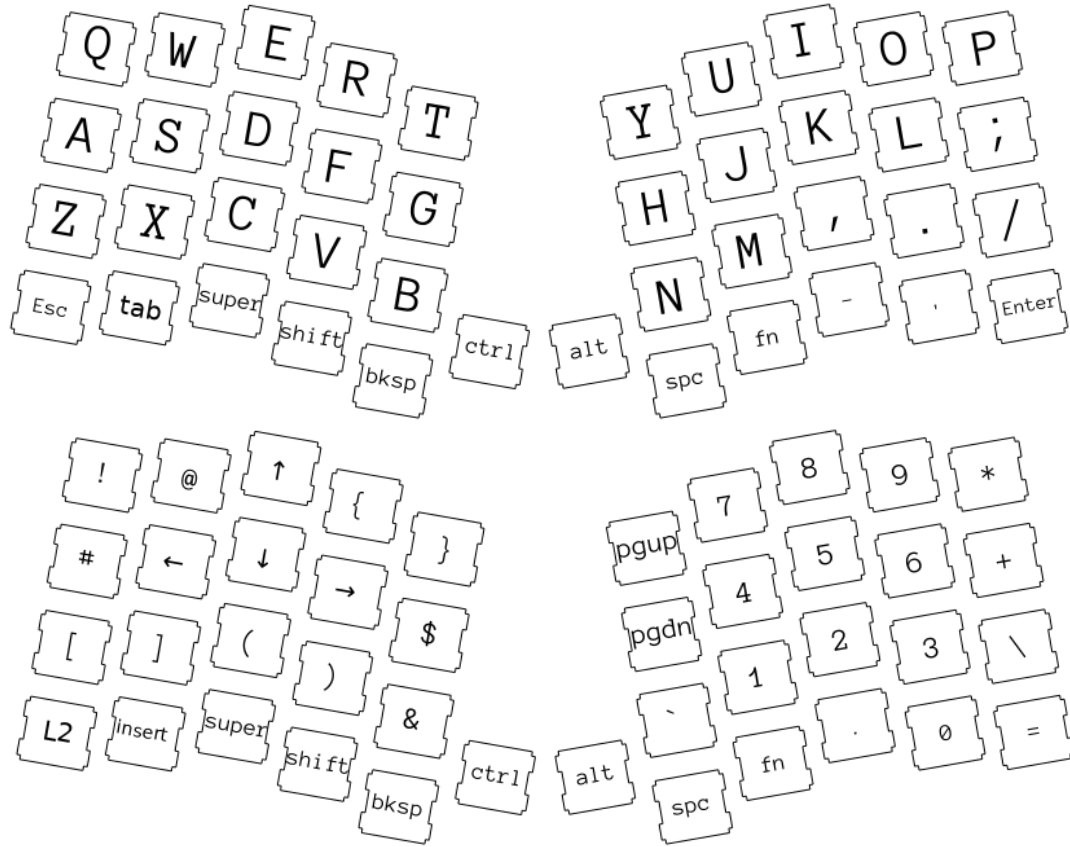


Atreus

- To prevent hands skewing
- Easy to transport
- Columnar keyboard
- Symmetry



Atreus



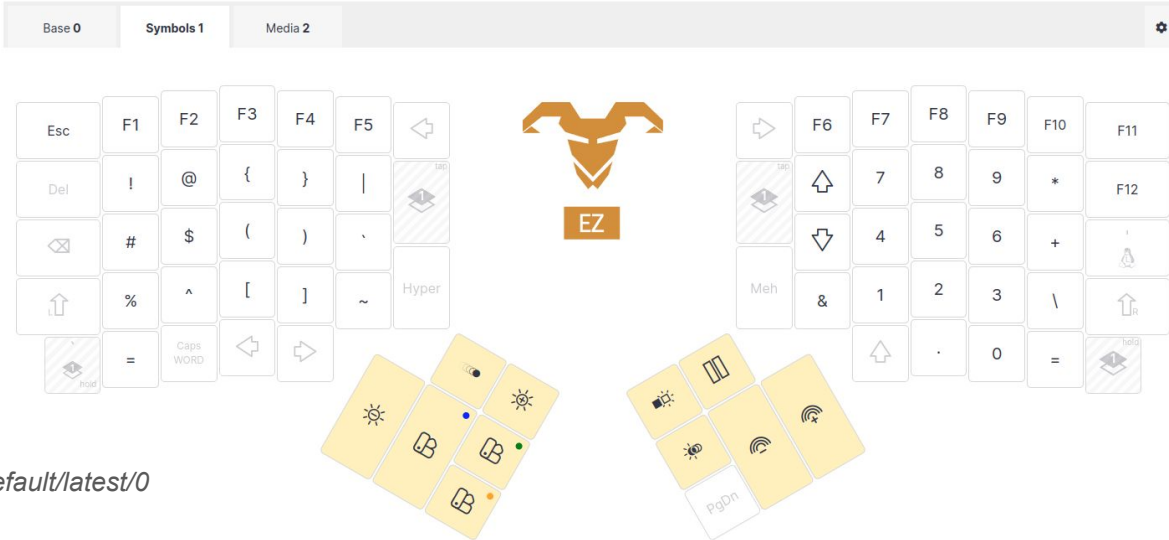
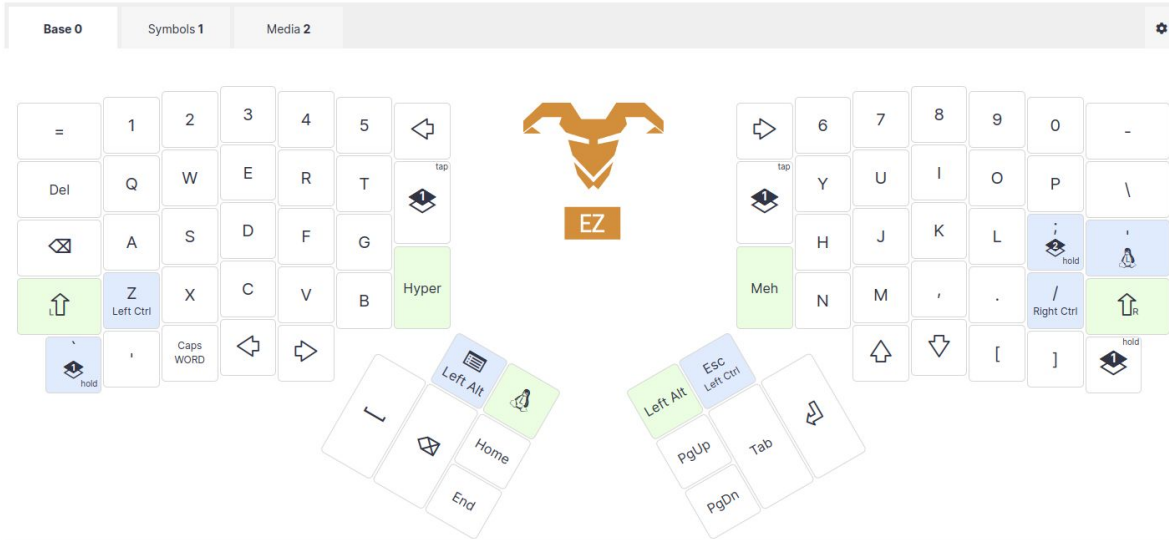
Split keyboard

- One of the first split keyboards
- Open source HW & SW
- You can build it on your own
- Symmetry



Split keyboard

- You can define your own layout
- Upload it to your keyboard



ErgoDox became business

- <https://ergodox-ez.com/>



ZSA

A family of keyboards



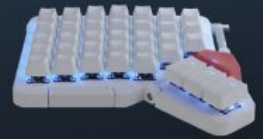
ERGODOX EZ



Voyager



MOONLANDER
MARK I



HALFMOON

Dactyl

- Ergonomic ErgoDox



Dactyl



<https://github.com/adereth/dactyl-keyboard/blob/master/guide/README.org#wiring>

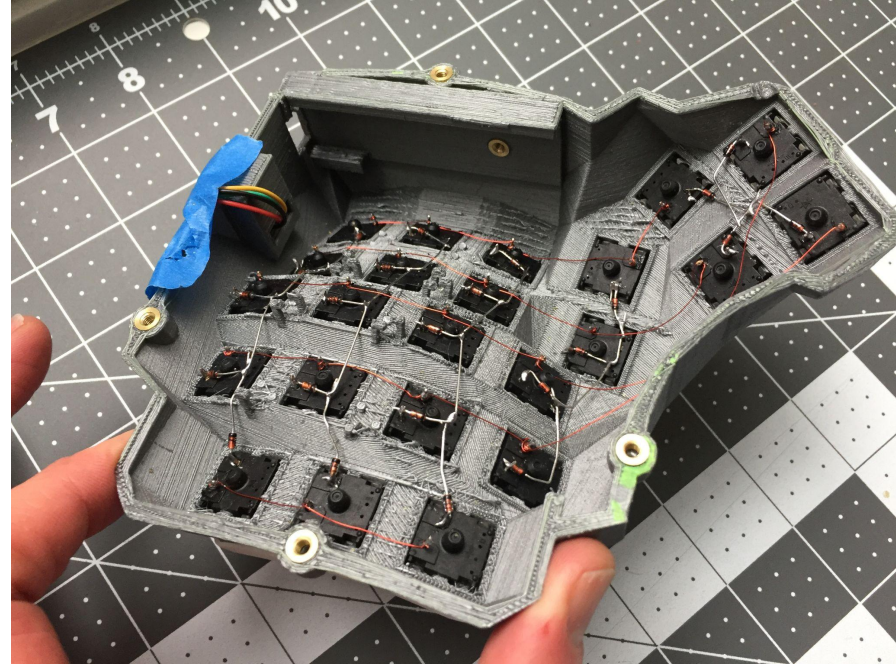
Dactyl Manuform

- Truly ergonomic ErgoDox



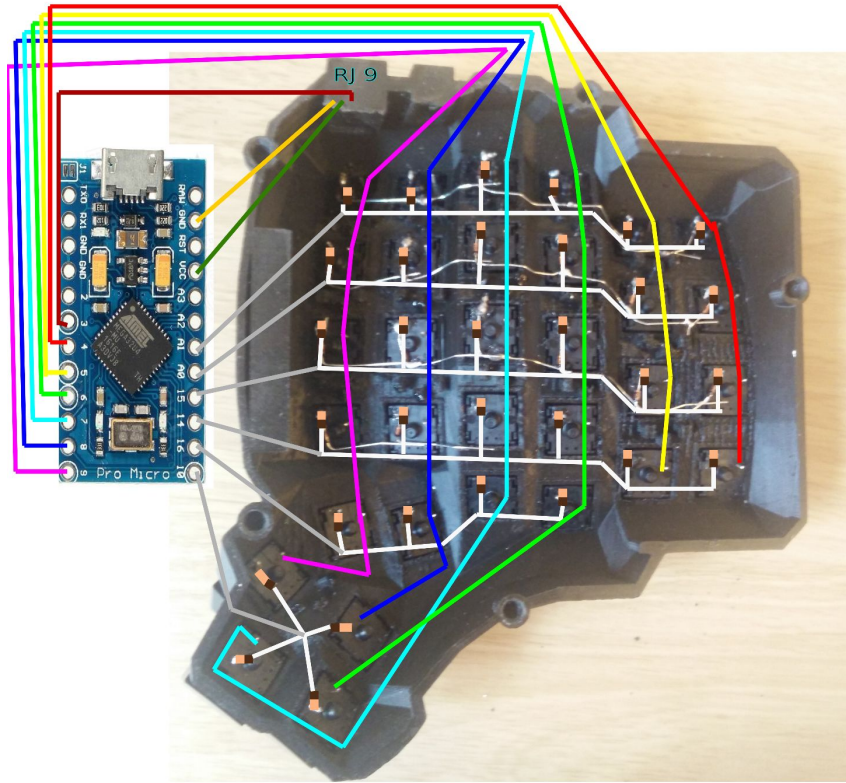
Dactyl Manuform

- Hand soldered
- No need for a PCB



Dactyl Manuform

- Wiring



■ Diode

LEFT

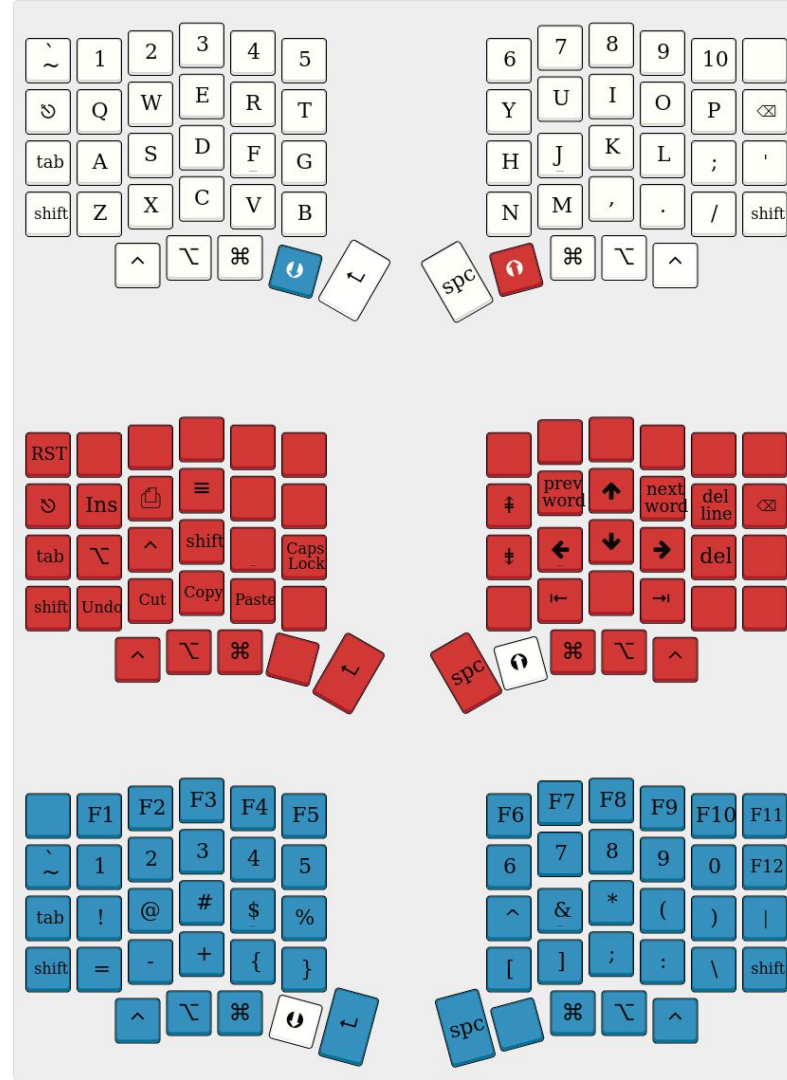
Sofle keyboard

- Made in Czechia :-)
- Clone of Corne
- Solves thumb overload



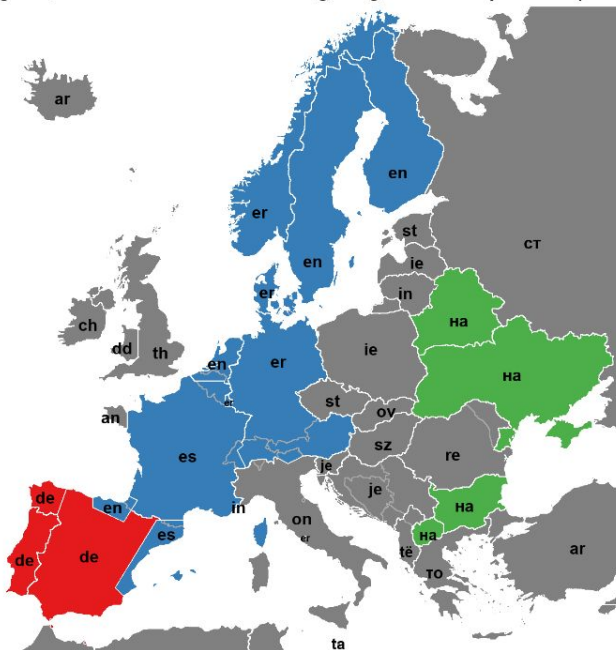
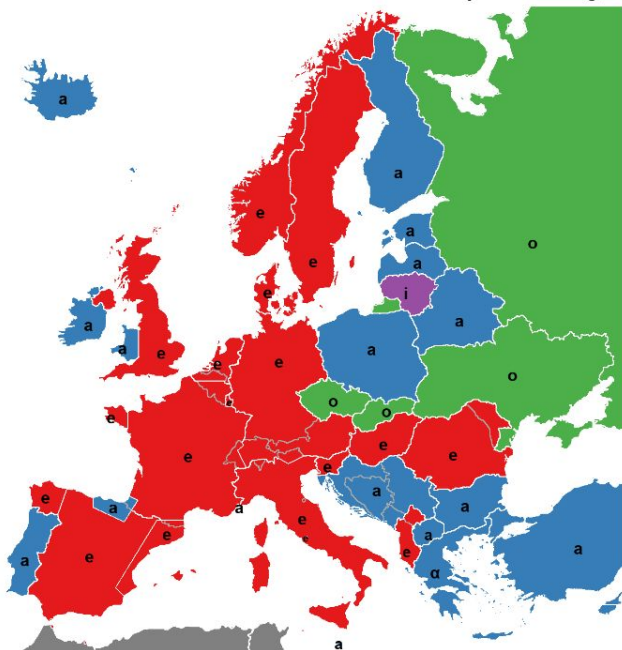
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I don't want to do all that stuff

- If you simply want to start with different layout
- Specify layout in a text file

```
(defsrc
  grv 1    2    3    4    5    6    7    8    9    0    -    =    bspc
  tab q    w    e    r    t    y    u    i    o    p    [    ]    \
  caps a    s    d    f    g    h    j    k    l    ;    '    ret
  lsft z x  c    v    b    n    m    ,    .    /    rsft
  lctl lmet lalt    spc          ralt rmet rctl
)
```

```
(deflayer dvorak
  grv 1    2    3    4    5    6    7    8    9    0    [    ]    bspc
  tab ',    .    p    y    f    g    c    r    l    /    =    \
  caps a    o    e    u    i    d    h    t    n    s    -    ret
  lsft ; q  j    k    x    b    m    w    v    z    rsft
  lctl lmet lalt    spc          ralt rmet rctl
)
```



Improve your keyboard comfort

I don't want to do all that stuff

- Buy one
- Even Alza has them



Keychron Q1 QMK Custom Mechanical Keyboard - Version 2

\$143.10 ~~\$159.00~~



Keychron Q2 QMK Custom Mechanical Keyboard

\$159.00



Keychron S1 QMK Custom Mechanical Keyboard

\$109.00



Keychron Q3 QMK Custom Mechanical Keyboard

\$164.00



Keychron Q3 QMK Custom Mechanical Keyboard ISO Layout Collection

\$164.00



Keychron Q8 (Alice Layout) QMK Custom Mechanical Keyboard

\$166.25 ~~\$175.00~~



Thank you for your attention