

Oskar

smartphone braille-keyboard

Johannes Střelka-Petz



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Vision

- ▶ empowerment
- ▶ libre software and hardware
- ▶ equal opportunities
for visually impaired people
in mobile communication

Problem

smooth touch screen, not haptic



Solution

Braille



a b c d e f g h i j



k l m n o p q r s t

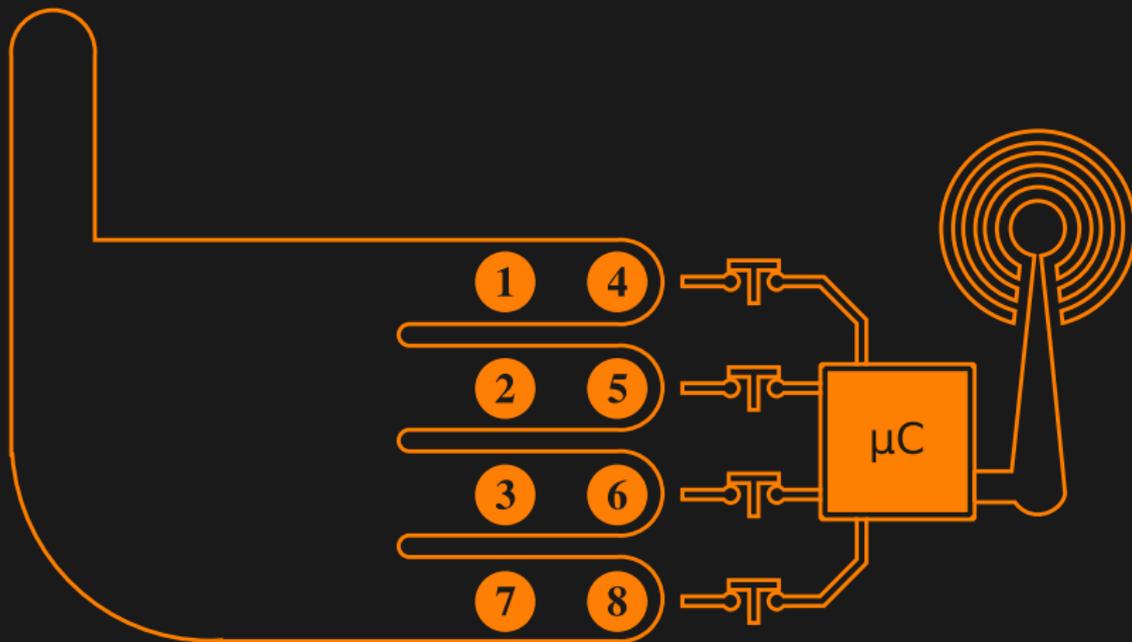


u v x y z



Solution

Scheme



Solution

Implementation

Concertina



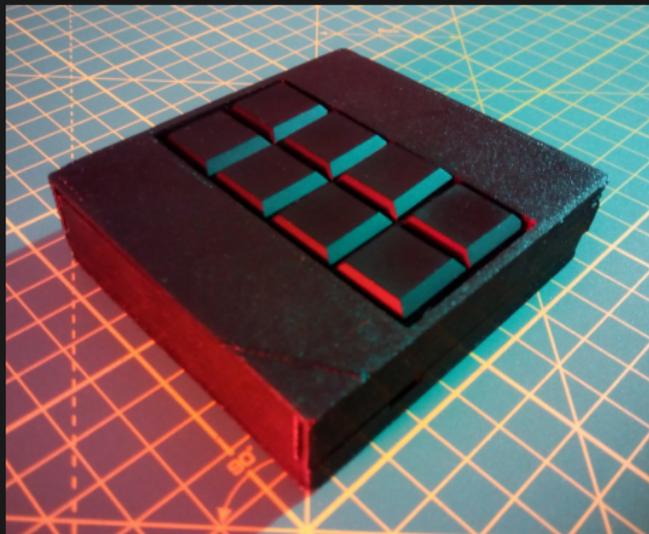
Zither



Solution

Overview

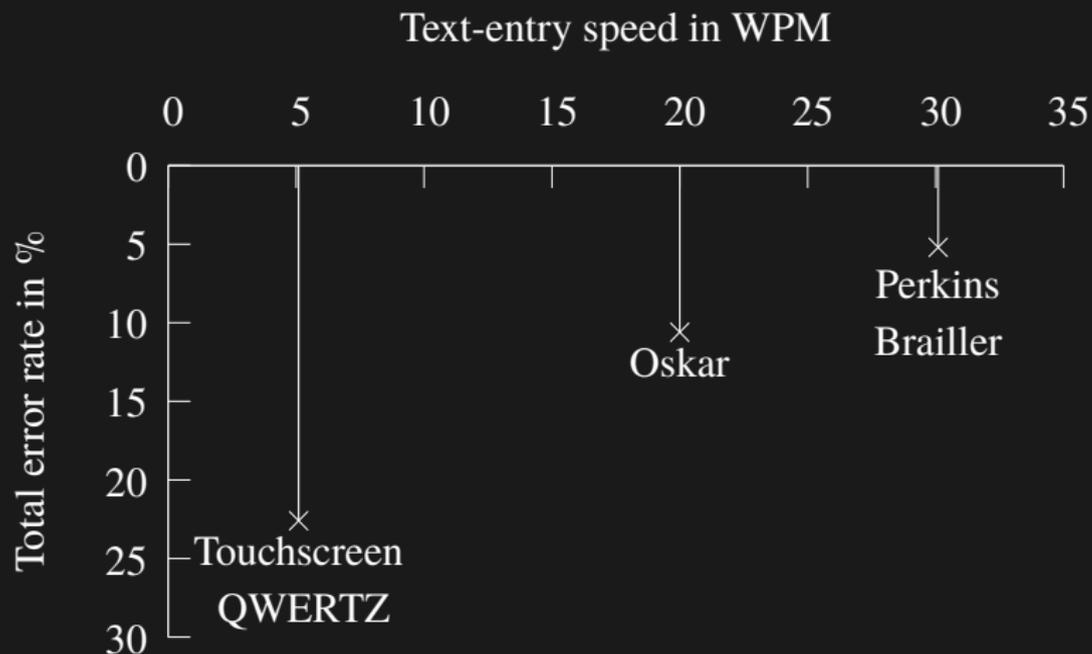
O_{pen} S_{ource} K_{ey} A_R_{rang}e_{ment}



Characteristics

- ▶ fast
- ▶ precise
- ▶ discreet
- ▶ mobile
- ▶ open source

Results



Awards

- ▶ Wissenschaftspreis für Inklusion durch Naturwissenschaften und Technik (WINTEC), 2019, Austrian Ministry of Social Affairs



- ▶ Martin Prager integration award, 2019, netidee, Internet Privatstiftung Austria (IPA)



- ▶ Unikate idea competition, 2018, TU-Wien, Austrian Disability Council and UNIQA



Team



Braille expert Erich Schmid and developer Johannes Střelka-Petz

Support

- ▶ Internet Privatstiftung Austria (IPA) netidee funding



- ▶ vienna business agency founders lab – future technologies

vienna
business
agency

Goals

- ▶ Equal opportunities for visually impaired people in mobile communication through innovative technology that has a social impact.
- ▶ 500 users by 2024
- ▶ Adaptation to all languages of the European Union
- ▶ blind maker kit

Contact

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