penk Update README.md
`1b9ddef` May 9, 2022
3 commits

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model	Initial commit May 9, 2022
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README.md	Update README.md May 9, 2022

README.md

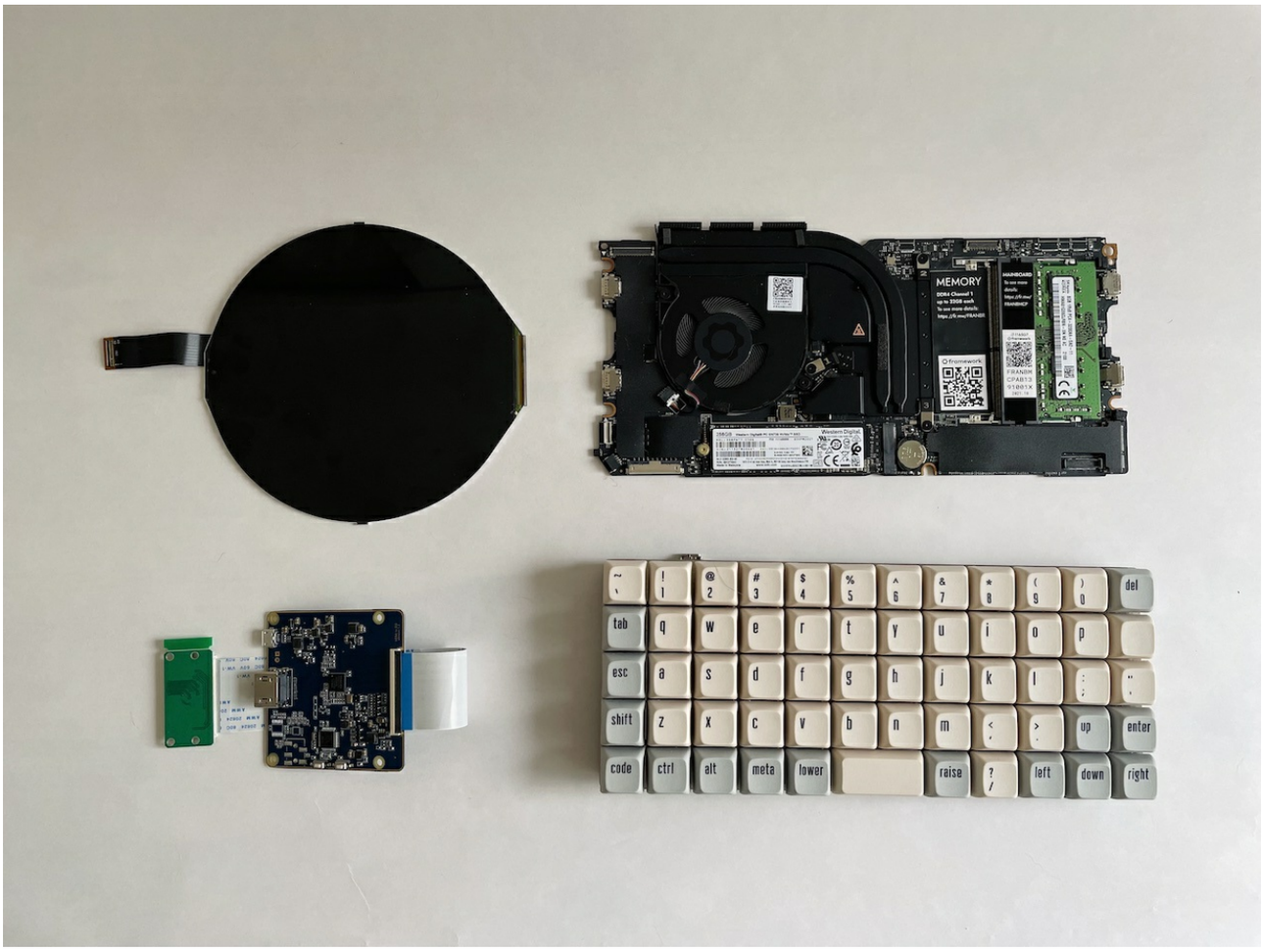
Mainboard Terminal - A Retro-style Computer with a Modern Core

Mainboard Terminal is not just any cyberdeck, it's a full-feature PC powered by Framework's Mainboard. It has a 5" (1080x1080) round LCD, a fully 3D printable case, and is compatible with OLKB Preonic mechanical keyboard.

The Design

I've always wanted a terminal with a round screen, with the Mainboard product and its 2D drawing released, I finally had the chance to build one. And yes, it runs Spacewar! :-)

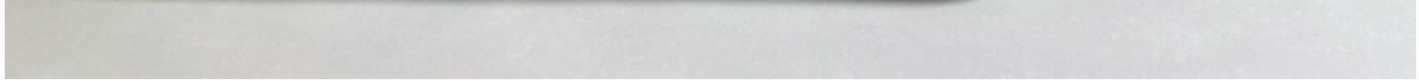
Electronics



- Framework Mainboard https://frame.work/products/mainboard
- OLKB Preonic https://drop.com/buy/preonic-mechanical-keyboard
- 5" round LCD https://m.tb.cn/h.fr5pE3w

Software

Everything works out of the box with Ubuntu 22.04 LTS, which is nice.



- Setting for the display

```
xrandr --newmode "1080x1080R" 82.50 1080 1128 1160 1240  1080 1083 1093 1111 +hsync -vsync
xrandr --addmode DP-1 "1080x1080R"
xrandr --output DP-1 --mode "1080x1080R"
```

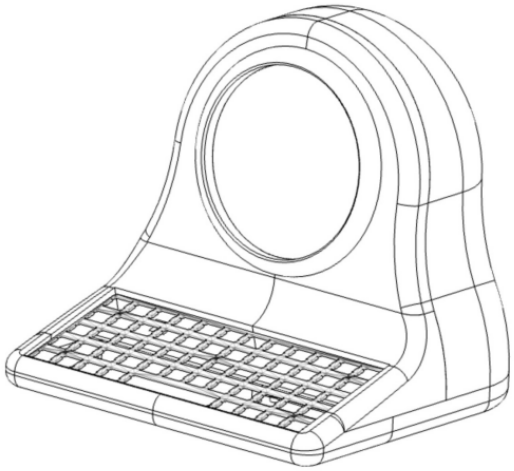
- Patch `CoolRetroTerm` to increase screen curvature (optional, purely aesthetic reasons)

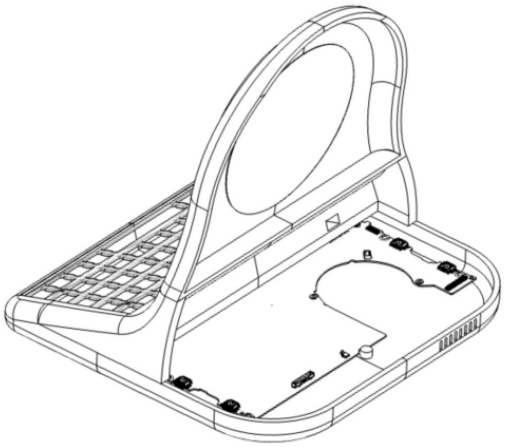
  Edit `app/qml/ApplicationSettings.qml` and change the following property:

```
readonly property real screenCurvatureSize: 2.0
```

3D Printed Parts

Everything is (loosely) held together by 5x2mm magnets in my build (again, for purely aesthetic reasons). You might want to add holes for screws & other cutouts to utilize those USB4 ports.





- STL files
- Editable STEP file

Be sure to check out the 2D drawing released by Framework if you want to do further customization.

Paint color used in the build: Tamiya paint `PS-57` (Pearl White) and `TS-30` (Silver Leaf).

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About

A Retro-style Computer with a Modern Core

- Readme
- MIT license
- **130** stars
- **2** watching
- **1** fork

Releases

No releases published

Packages

No packages published