

Runebender

1

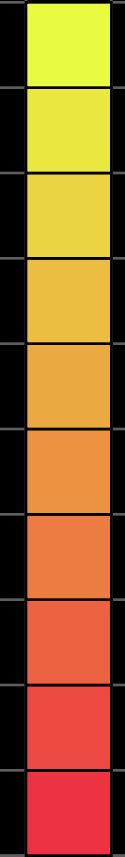
A New Open-Source Font Editor Written in Rust

07.11.19

Eli Heuer

@eliheuer

<https://elih.blog>



Runebender

<https://github.com/linebender/runebender>

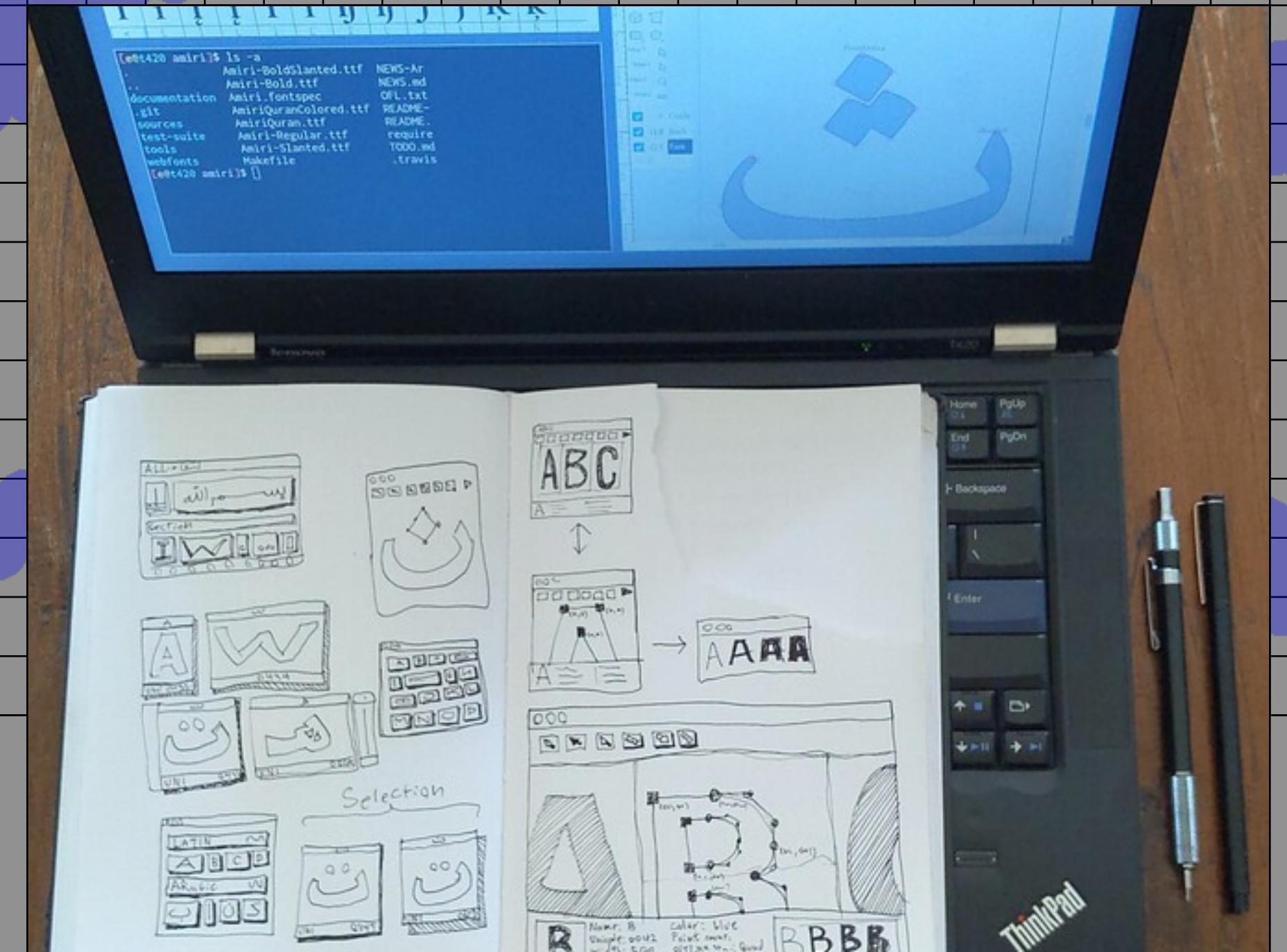
Saarbrücken

Libre
Graphics
Meeting 2019



Berlin Hack Week

3



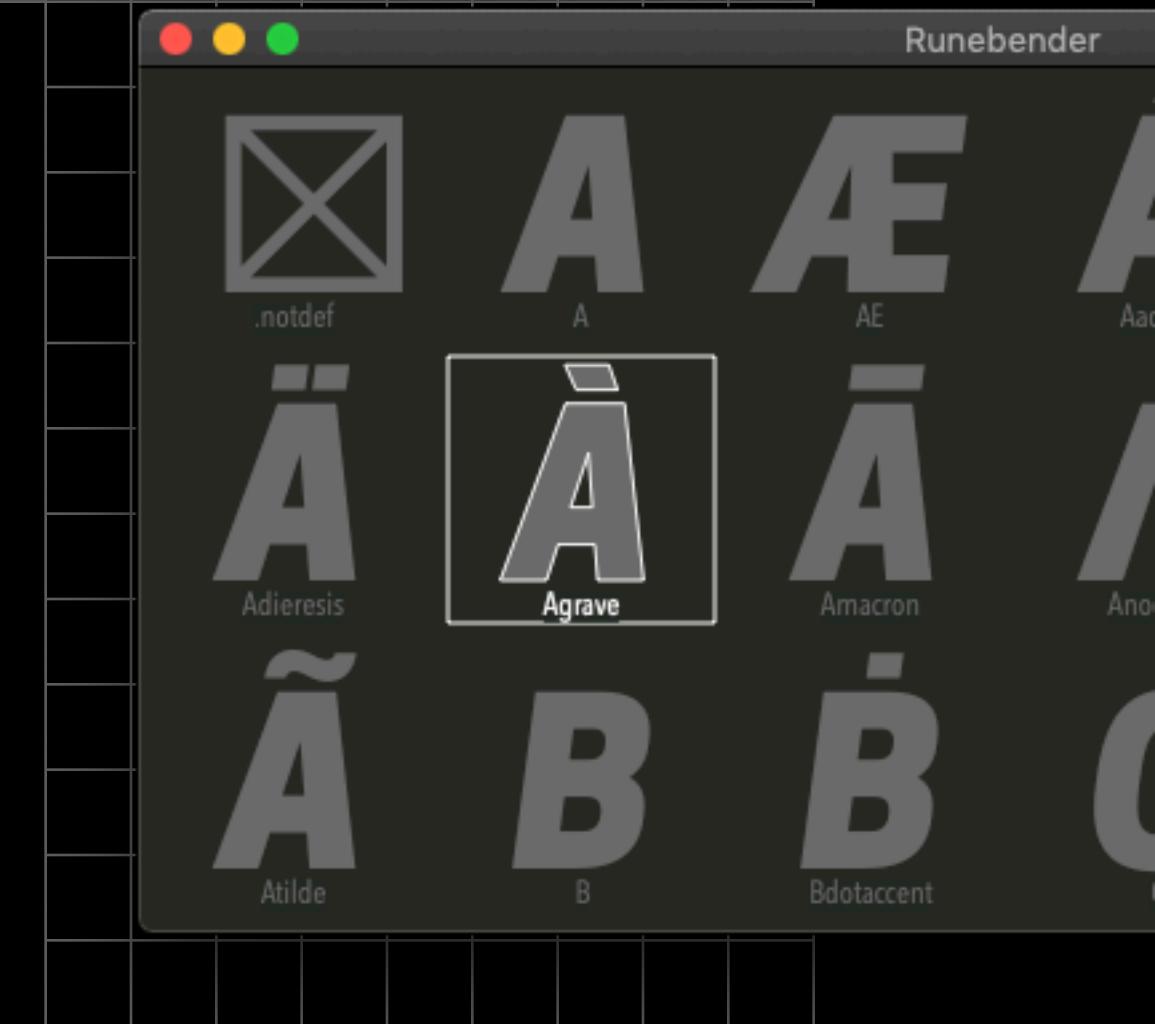
Project Goals

2019

A working editor
Basic GNU+Linux support
UFO Support (Norad)

2020+

Full GNU+Linux support
Metaballs
Spiro curves
Foo
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Foo



Rust Programming

5

Pros

C/C++ level performance

Ca

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Cons

GNU+Linux support

UFO Support (Norad)

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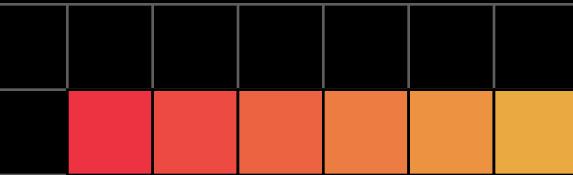
Foo

Foo



```
1 // Copyright 2019 the Runebende
2
3 //! Font data for editing.
4
5 use std::fs::File;
6 use std::io::Read;
7
8 use kurbo::BezPath;
9
10 pub struct Font {
11     pub glyphs: Vec<Option<BezP
12 }
13
14 impl Font {
15     pub fn load_from_file(filename)
16     {
17         let mut f = File::open(filename);
18         let mut data = Vec::new();
19         f.read_to_end(&mut data);
20
21         let font = font_rs::fon
22         let mut glyphs = Vec::new();
23         for g in &data[4..] {
```

Open Source



Education:

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Customazation:

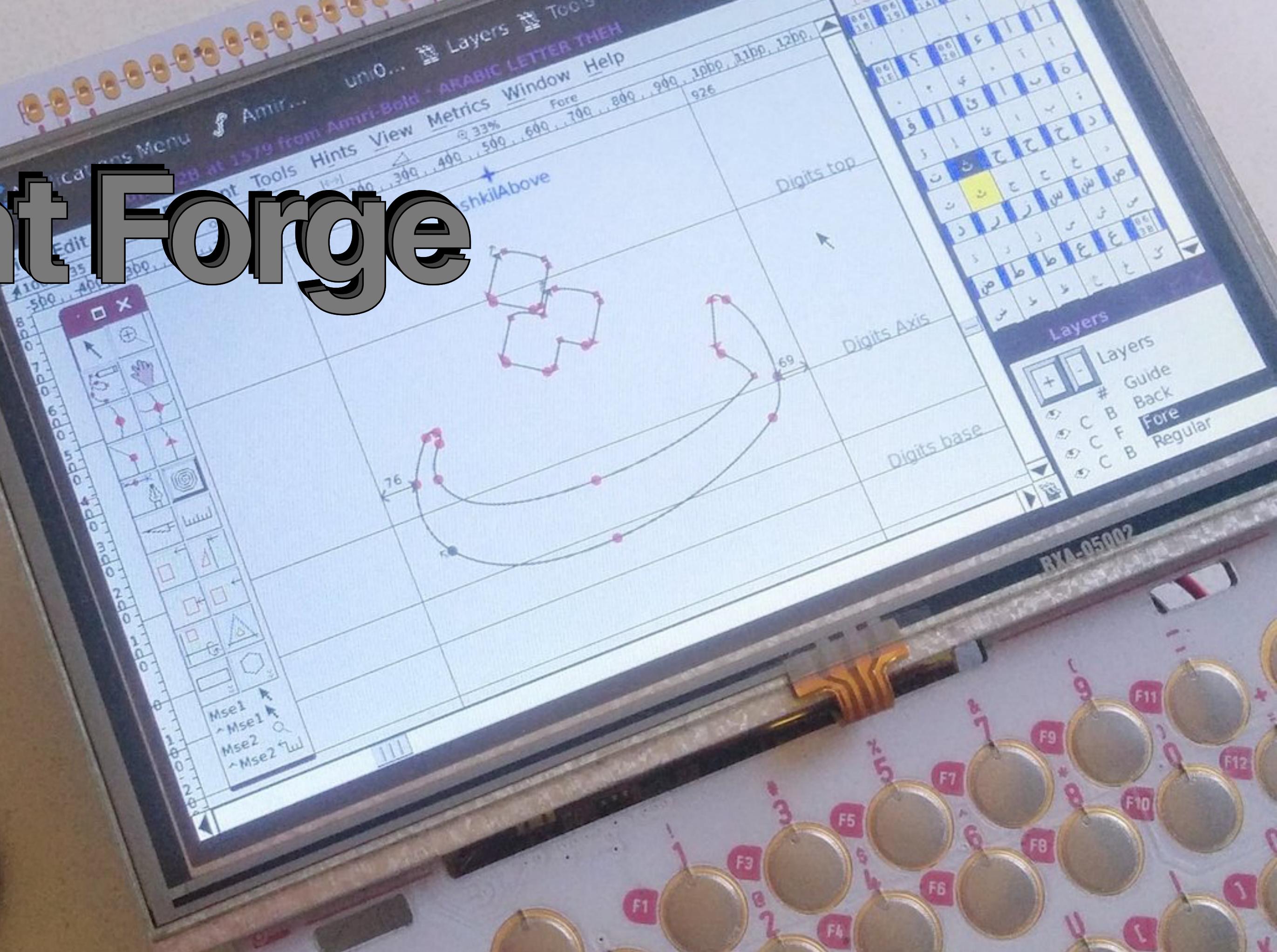
GNU+Linux support
UFO Support (Norad)
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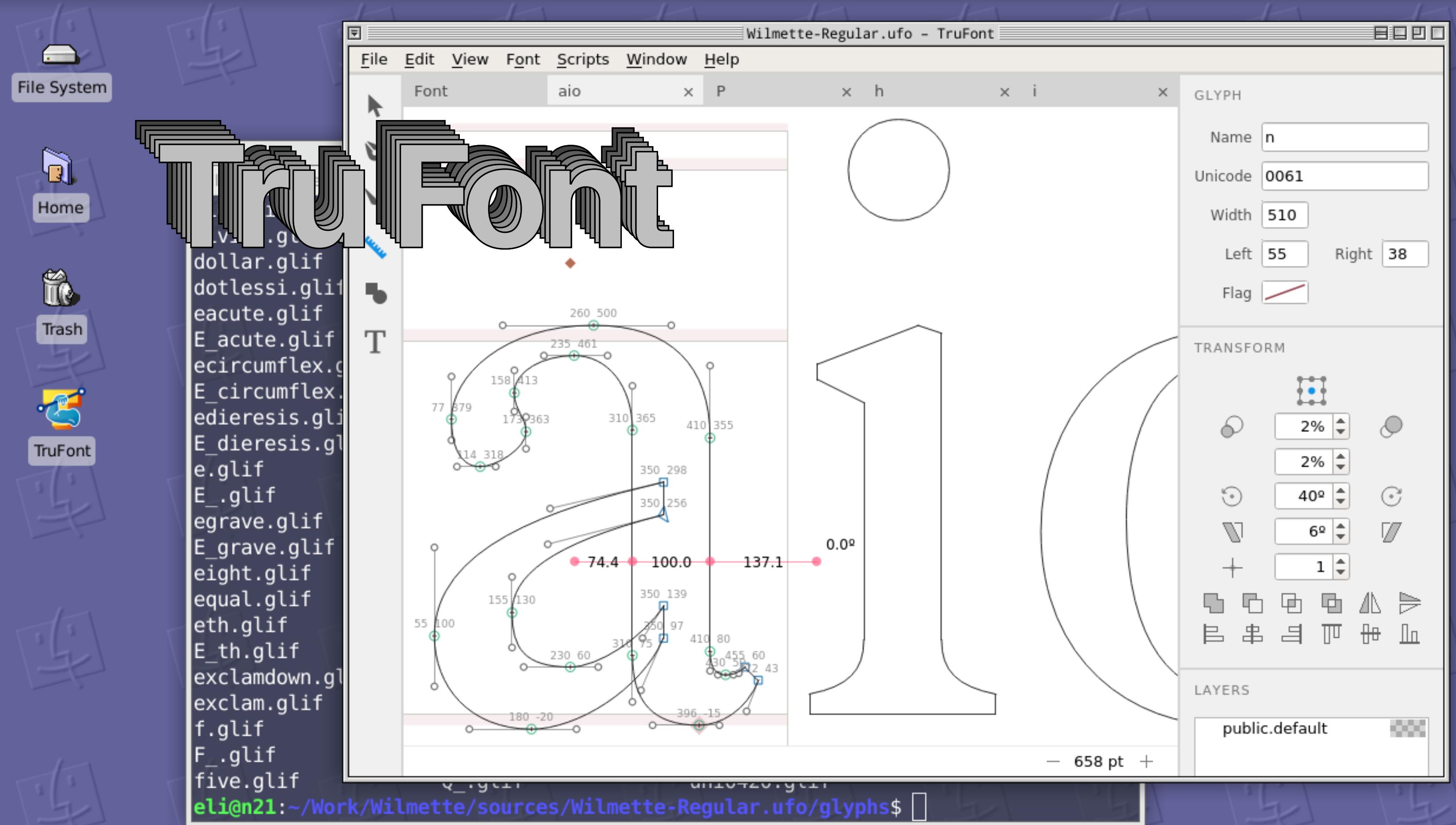
How can you own [...] nu

Numbers belong to the world
UFO Support (Norad)
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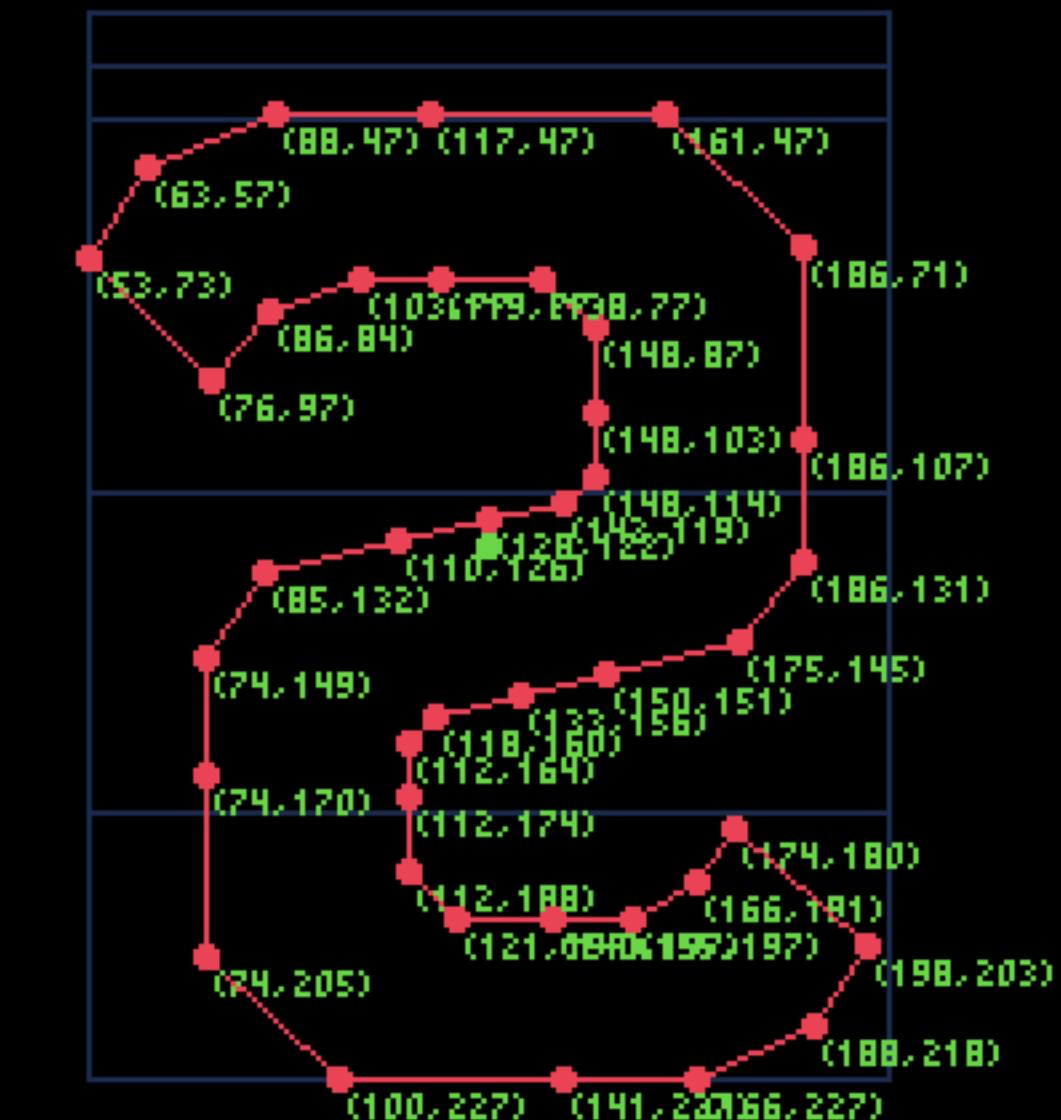
TruFont&
LilUFO&
FontForge&
RuneBender.

FontForge





```
1 # Library and module imports
2 import argparse
3 import pyxel
4 import xmltodict
5 from random import randint
6
7
8 COL_BAC
9 COL_INF
10 WIDTH = 256
11 HEIGHT = 255
12
13
14 # Quadratic control point
15 class Point:
16     __slots__ = ['x', 'y', 't']
17     def __init__(self, x, y, t):
18         self.x = x
19         self.y = y
20         self.t = t
21
22 # Application
23 class Bez:
24
25     # Initialization
26     def __init__(self):
27         pyxel.init(WIDTH, HEIGHT, caption="Bez", fps=60)
28         pyxel.image(0).load(0, 0, "assets/pencil_16x16.png")
```



Education

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We need

Early Users
Bug reports
UI concepts

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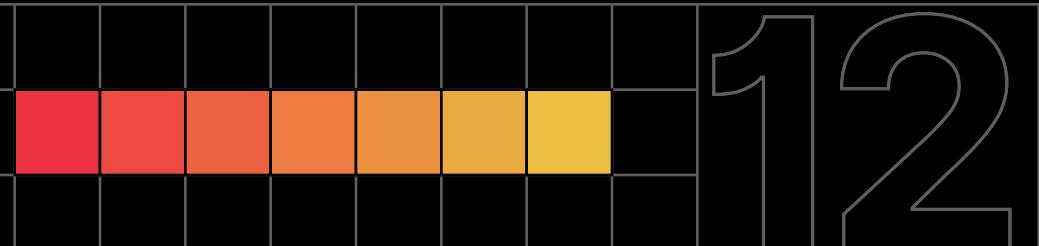
Get Involved

We need:

- Early users
- Bug reports
- UI concepts
- Documentation
- Rust programmers
- Python programmers
- New programmers
- Your ideas and feedback
- Tool requests
- Help with Arabic support

You will learn:

- How a font editor works
- Unix command line skills
- Rust programming
- Software engineering
- Git
- GitHub
- GNU+Linux
- Math
- Vim
- Cargo



Recurse Center @reursecenter · Jul 8
We're funding Fellowships of up to \$10,000 for women, trans, and non-binary people to work on programming projects, research, and art at RC this fall.
Apply by July 22nd and start August 12th or September 23rd.
reurse.com/blog/149-10000...

Please help spread the word!

\$10,000 Fellowships for women, trans, and non-bin...
Funding to work on ambitious projects at RC this fall.
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8 610 499

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Thank You!

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Slides made with DrawBot: github.com/eliheuer/type-thursday-talk-2019

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Runebender

<https://github.com/linebender/runebender>

