Fun Fyne Features

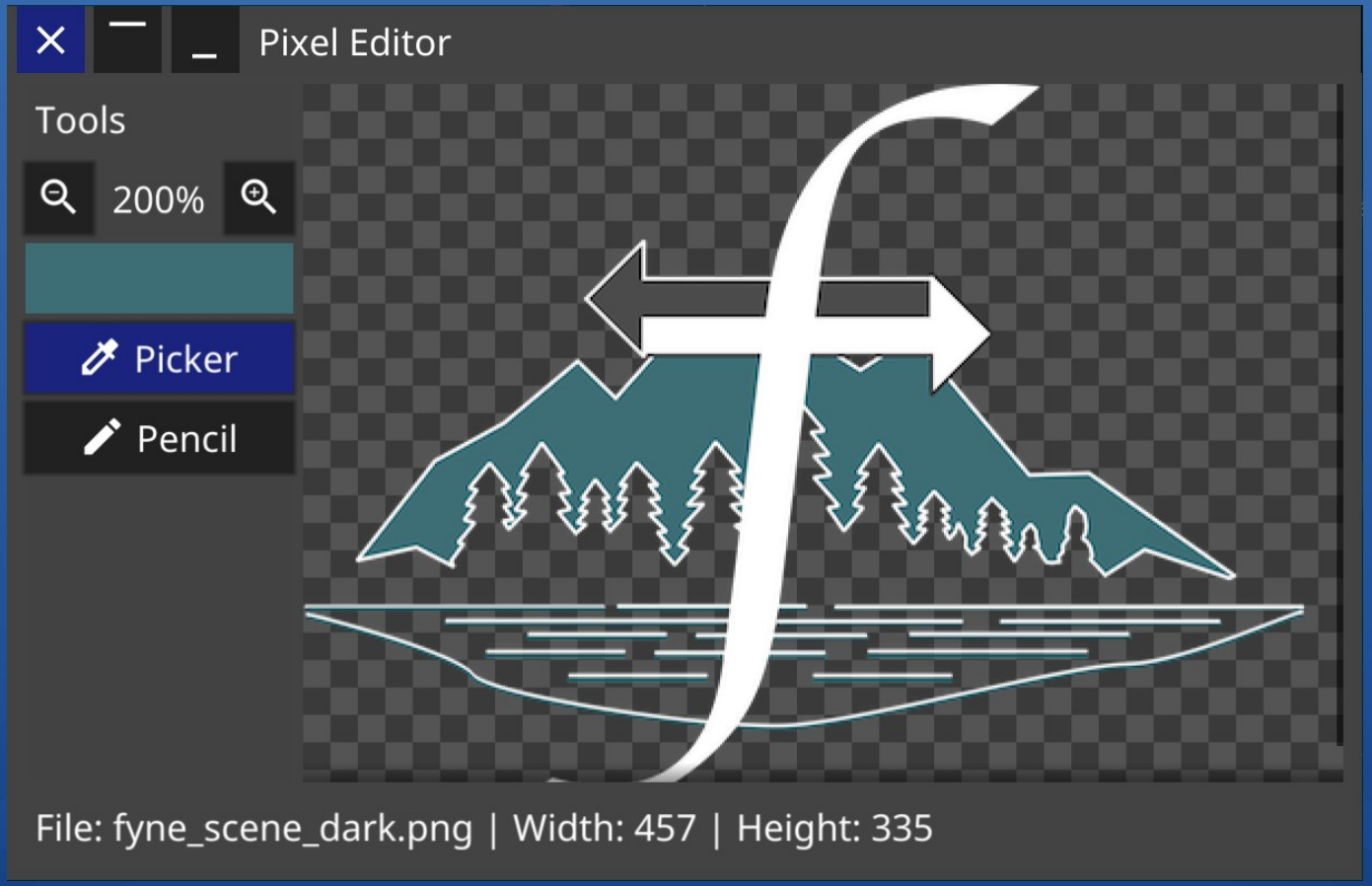
Andy Williams

FOSDEM 02/02/2020

Lots built in

- Widget Library
  - `Button, Hyperlink, Icon, Label, Menu, PopUp, ProgressBar, ProgressBarInfinite, Toolbar`
  - `Check, Entry, Radio, Select, Slider`
  - `Box, Form, Group, Scroller, TabContainer`
- Unit test all the things
  - `test.Tap(myButton)`
  - `test.Type(“this string”, myInput)`
  - `img := playground.Render(myWidget)`

Pixel Edit


Pixel Editor
Tools
200%
Picker
Pencil
File: fyne_scene_dark.png | Width: 457 | Height: 335

Playing with Pixels

- Image handling is great in Go!

```
myImage := Canvas.NewImageFromImage(myGoImage)
// edit bits
myImage.Refresh()
```

- Timers

```
c := time.Tick(time.Second / 60)
for range c {
    // do image update, then...
    myImage.Refresh()
}
```

GameBoy (thanks HF04)

Device API

- Device capabilities

```
myDevice := fyne.CurrentDevice()
if myDevice.HasKeyboard() {
   // just show UI
} else {
   // add some touch controls
}
```

- Orientation etc

```
if myDevice.IsVertical() { … }
```

GameBoy on Mobile

Themes

- Applications can override standard theme

```
import fyne.io/fyne/theme
myApp.SetTheme(theme.LightTheme())
```

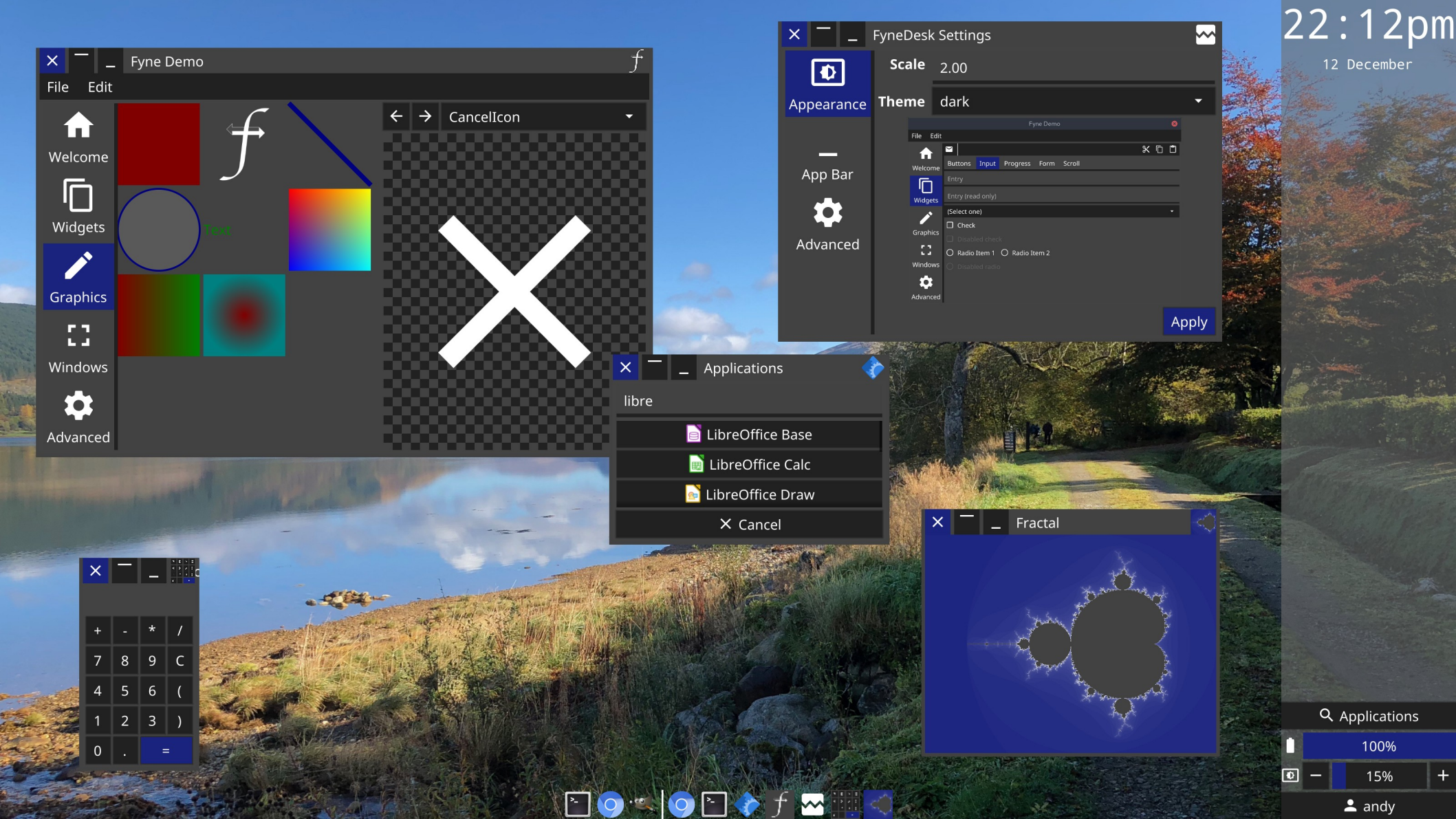
- Implement fyne.Theme
  - Custom colours, icons, fonts
  - `myApp.SetTheme(&myTheme{})`

BBC Micro (thanks skx)

All the Go Libraries!

- So many great open source libraries
  - Cross platform by default
- But also solid tools for platform specifics
  - Like…
  - System control?
  - Hardware access?
  - Window manager protocols?

- FyneDesk!


Fyne Demo
File
Edit
Welcome
Widgets
Graphics
Windows
Advanced
Text
CancelIcon
FyneDesk Settings
Appearance
App Bar
Advanced
Scale
2.00
Theme
dark
Apply
Applications
libre
LibreOffice Base
LibreOffice Calc
LibreOffice Draw
Cancel
Fractal
22:12pm
12 December
Applications
100%
15%
andy

Compiling for ...

- Running
  - `go run .`
- Install on my desktop
  - `go get fyne.io/fyne/cmd/fyne`
  - `fyne install`
- Distribute for desktop
  - `fyne package`
- For Mobile …
  - `fyne package -os ios -appID com.example.myapp`

Cross Compiling for ...

- macOS / Linux / Windows / BSD / RaspberryPi
  - Install all the toolchains!
- *Or*
- Fyne Cross
  - https://github.com/lucor/fyne-cross

Thanks!

- Andy Williams
- https://andy.xyz
- @andydotxyz

https://fyne.io

https://tour.fyne.io

https://fyne.io/develop/

- #fyne on gophers Slack