Fun Fyne Features

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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

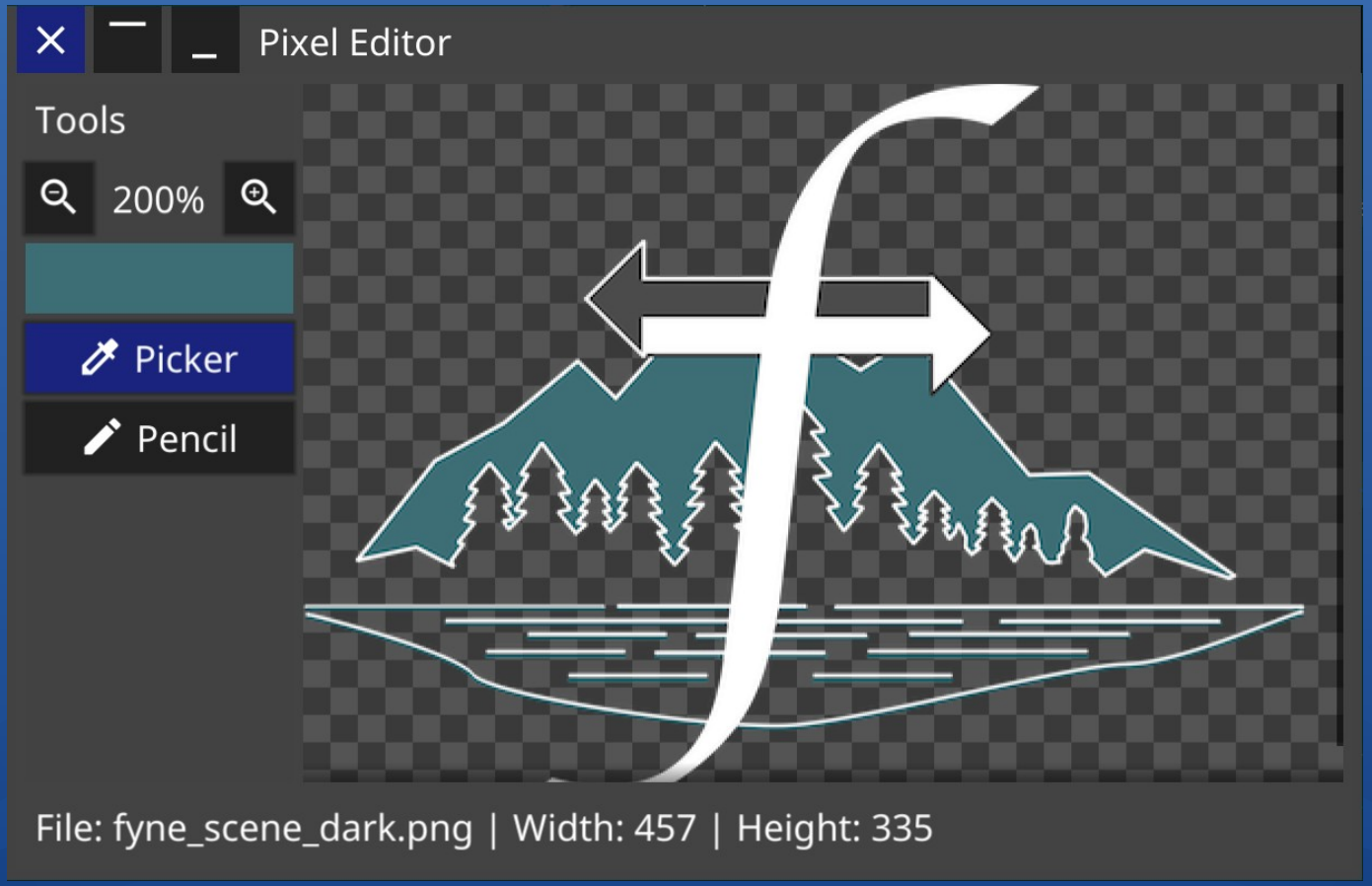
```
if myDevice.IsVertical() { … }
```

GameBoy on Mobile

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

Themes

- Applications can override standard theme

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

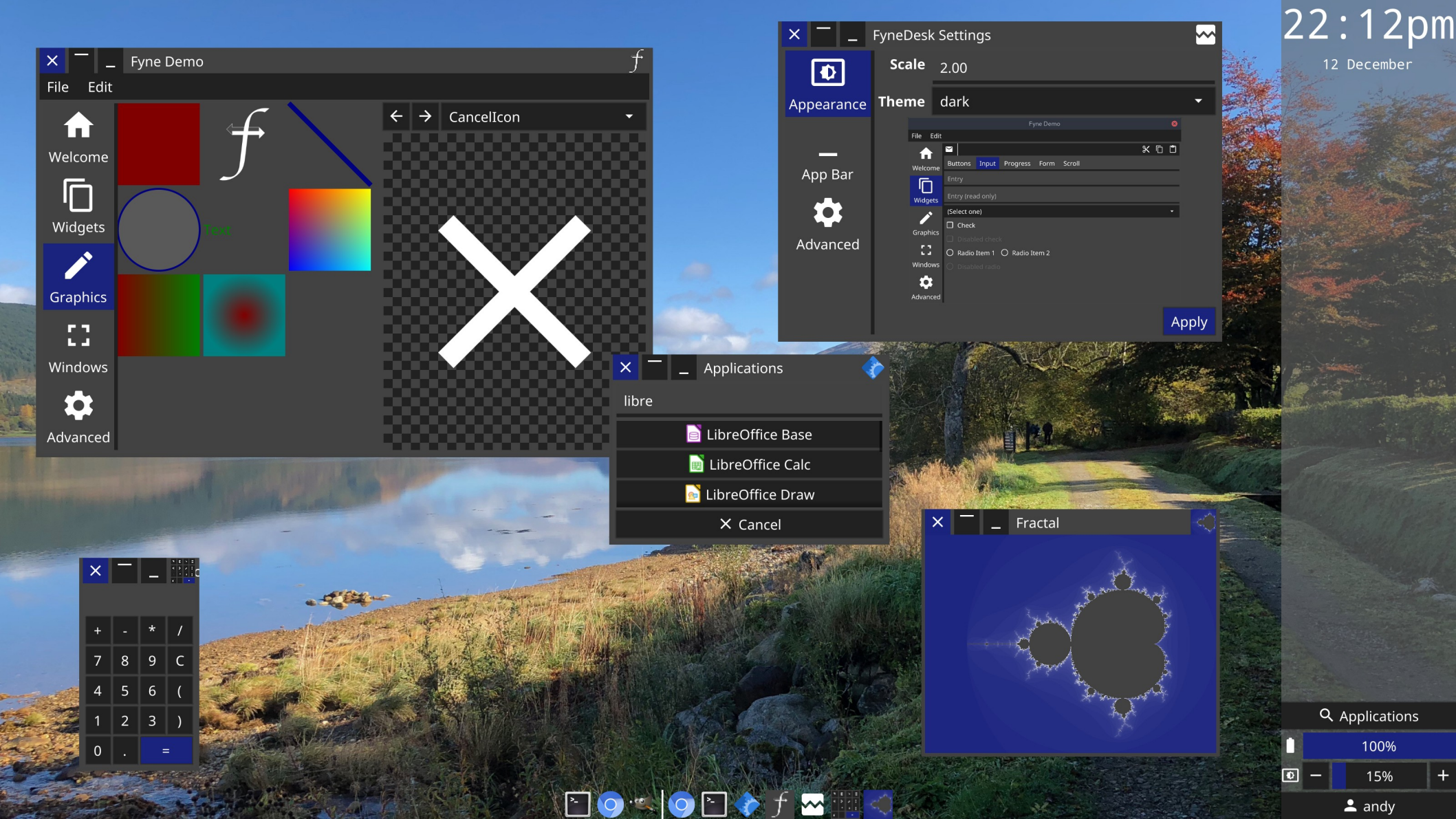
- Implement fyne.Theme
  - `myApp.SetTheme(&myTheme{})`

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 …
  - Window managers?
  - System control?

- 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`
  - `cd myapp`
  - `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!

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https://fyne.io

https://tour.fyne.io

https://fyne.io/develop/

- #fyne on gophers Slack