# Graphical Apps without an OS Single codebase apps everywhere

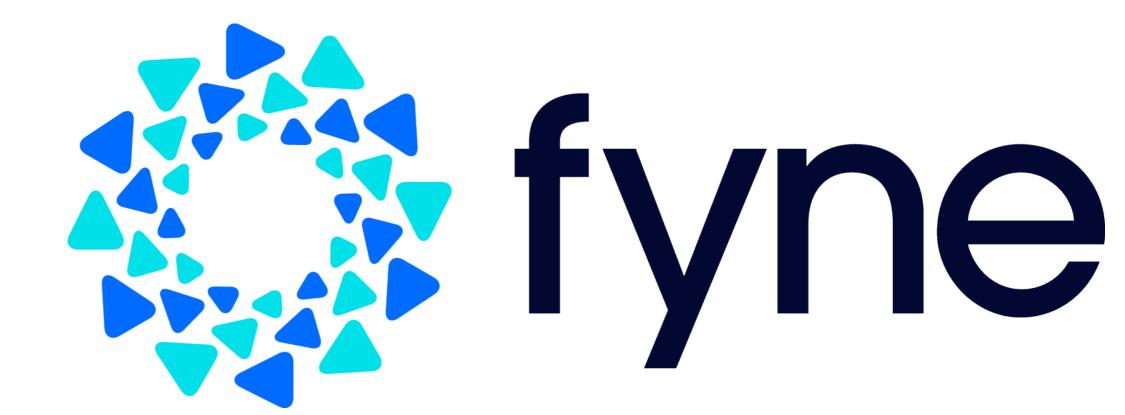
#### Hello GopherCon!

- Andrew/Andy Williams
- Coder, Founder, Author
- Go/Fyne developer since 2018
- CEO Apptrix.ai
- First time here!



### Fyne Introduction

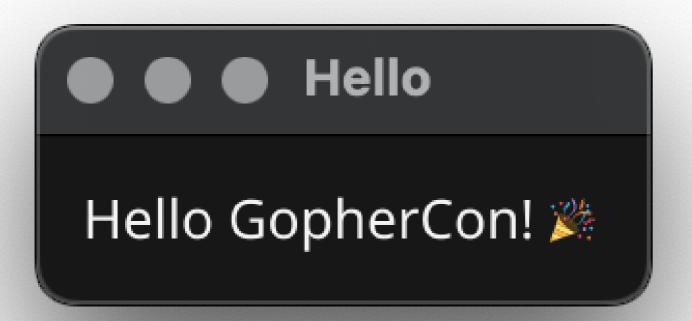
- Write once, run anywhere!
- No user libraries or setup
- Native apps, store support
- Easy to get started
- Promoting good engineering

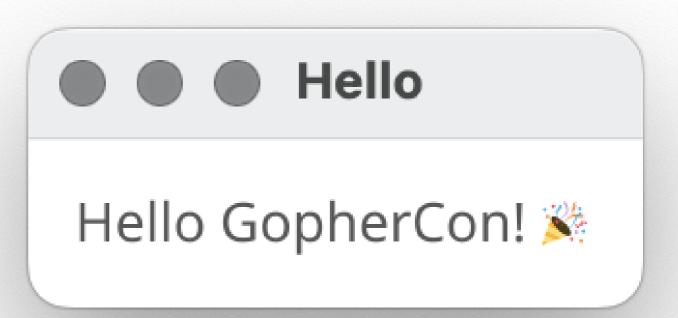


### Fyne Hello World

```
1 package main
 3 import (
          "fyne.io/fyne/v2/app"
          "fyne.io/fyne/v2/widget"
 6)
8 func main() {
          a := app.New()
          w := a.NewWindow("Hello")
10
11
12
          w.SetContent(widget.NewLabel("Hello GopherCon! 0"))
13
          w.ShowAndRun()
14 }
```

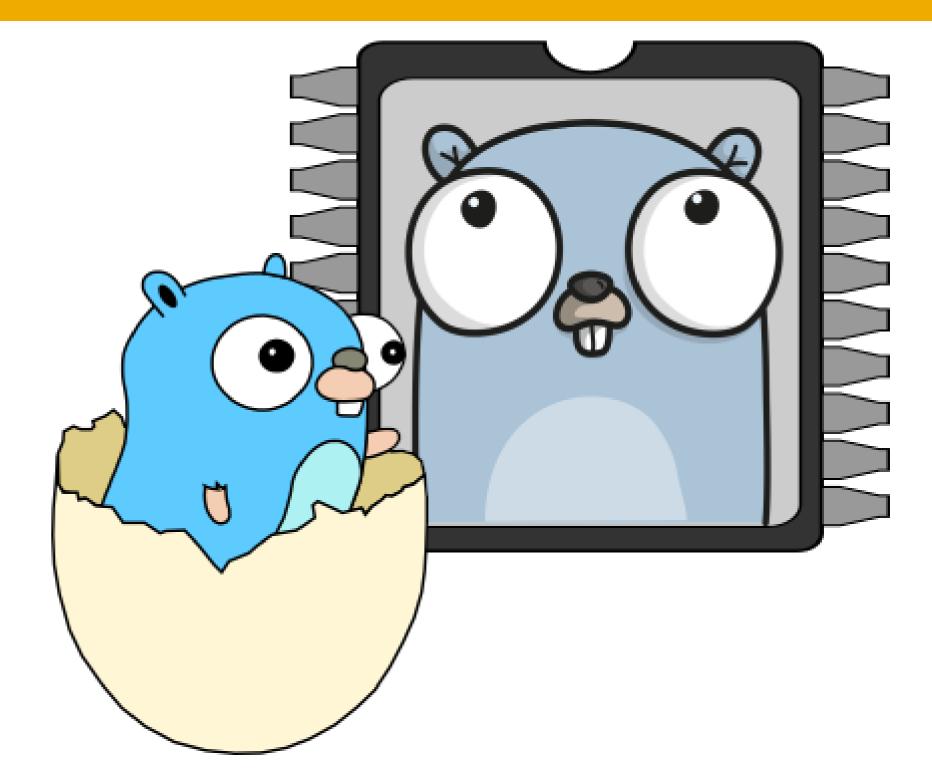
#### Fyne Hello World





# Without an Operating System?

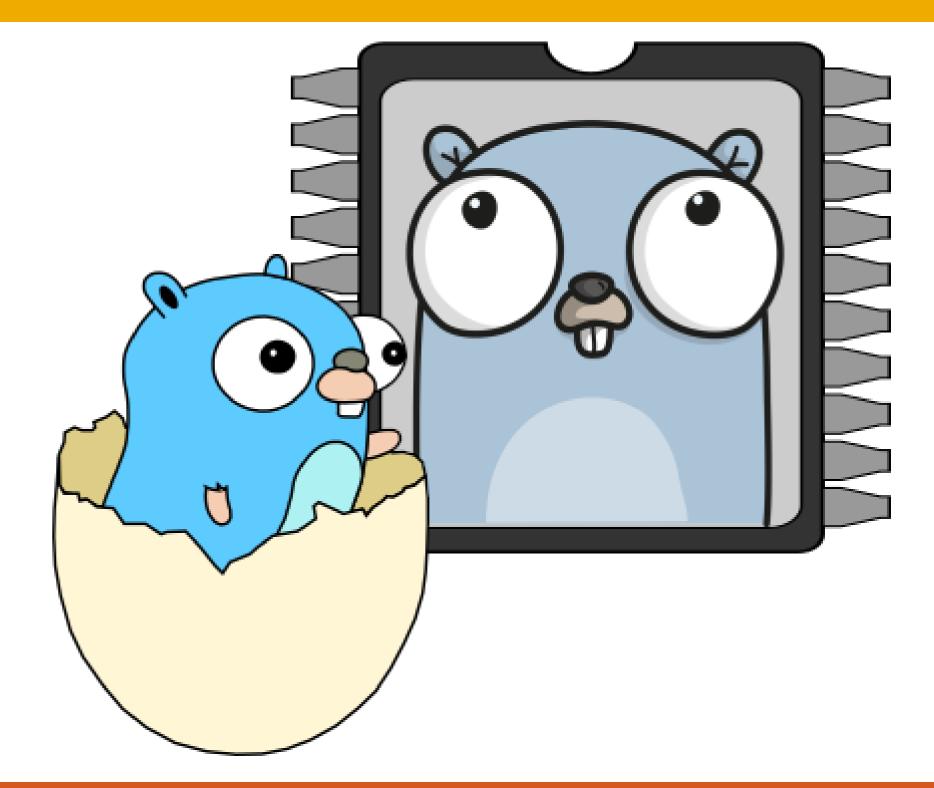
- TinyGo for embedded
- Tamago and GOOS=none
- Custom hardware



# Without an Operating System?

- TinyGo for embedded
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Fyne auto-detection is limited



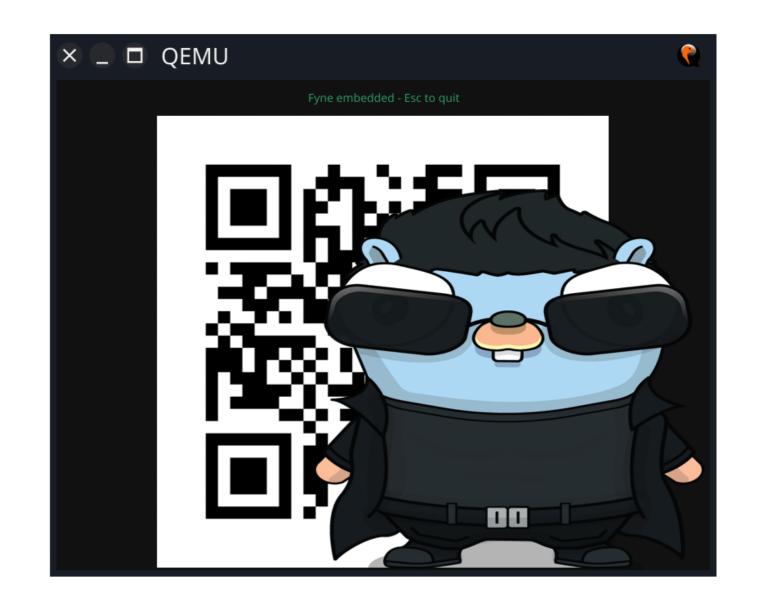
# Bridging the driver gap

- Additional custom driver API
- (Define the draw output)
- (Process events from device)
- fyne-x for common devices

```
1    a := app.New()
2    app.SetDriverDetails(a,
        xEmbedded.NewUEFIDriver())
```

#### Demo - QEMU

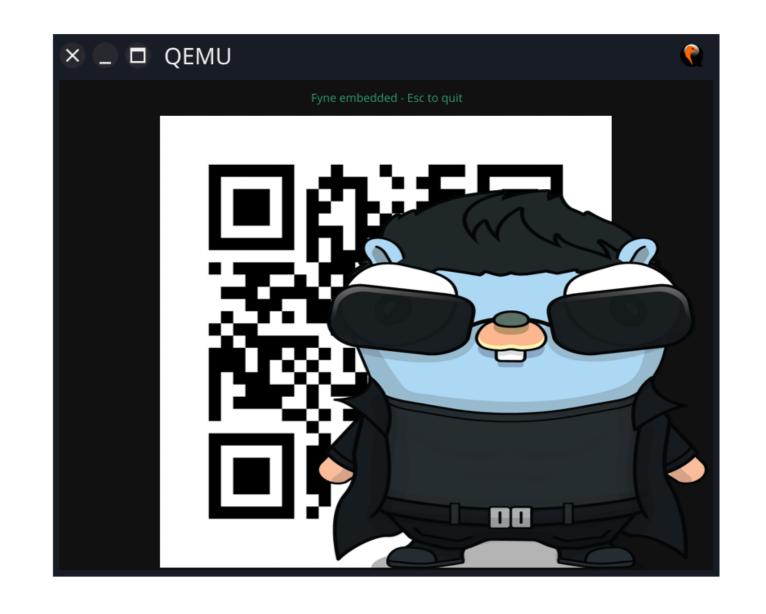
- github.com/andydotxyz/presentations
- -> 2025-08-27-GopherCon/demo
- \$ make qemu



#### Demo - QEMU

github.com/andydotxyz/presentations

- -> 2025-08-27-GopherCon/demo
- \$ make qemu
- \$ make tinydisplay
- \$ go run.



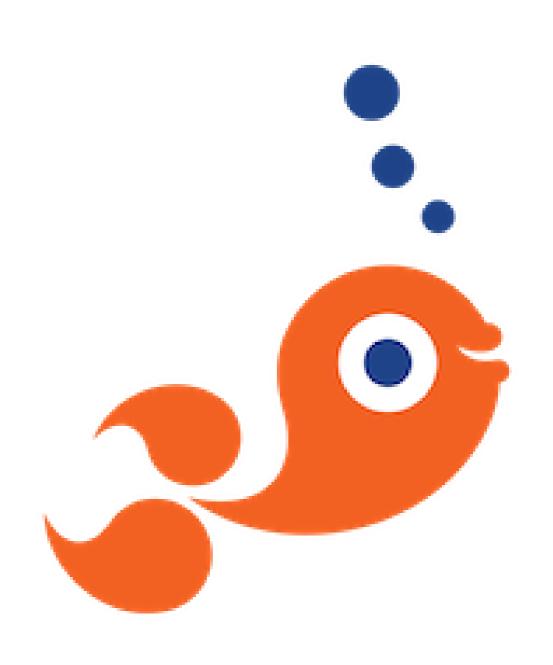
#### Get involved!

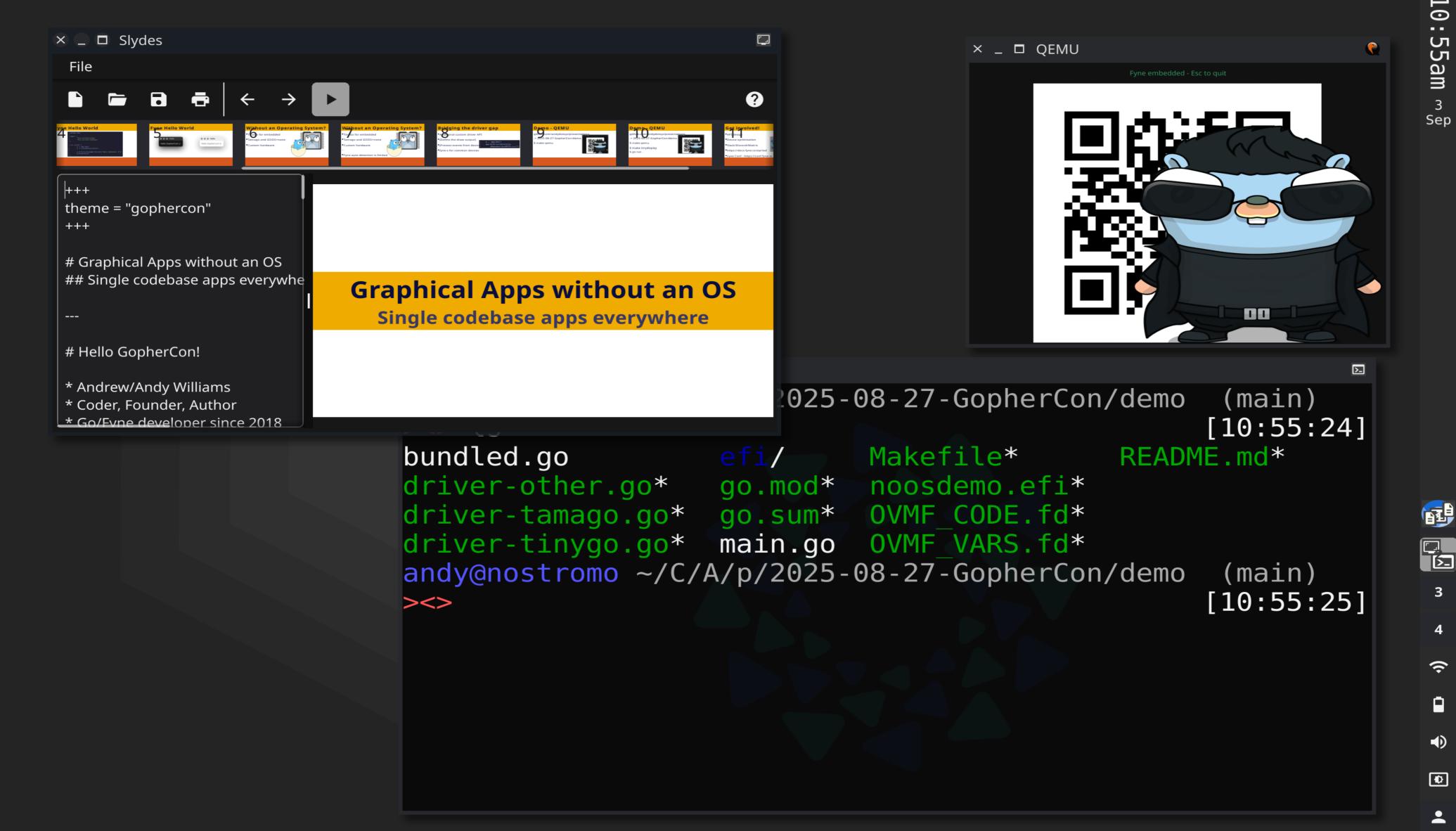
- API design
- Device optimisation
- Slack/Discord/Matrix
- https://docs.fyne.io/started
- Fyne Conf https://conf.fyne.io



#### Created with:

- Slydes slideshow app
- Fyne Terminal
- FyneDesk desktop
- (All Fyne.io toolkit apps)
- Presented on FyshOS





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