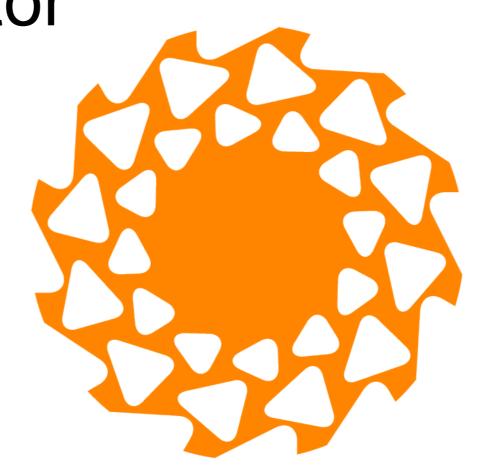
# Low-code graphical apps with Go

Edinburgh Gophers - 9 October 2024

## About Me

- Software Engineer, Entrepreneur, Author
- Enlightenment, Maven contributor
- Founder of Fyne project
- Go developer since 2018
- CEO Fyne Labs





## Fyne Project

...

Fyne aims to be the simplest toolkit for

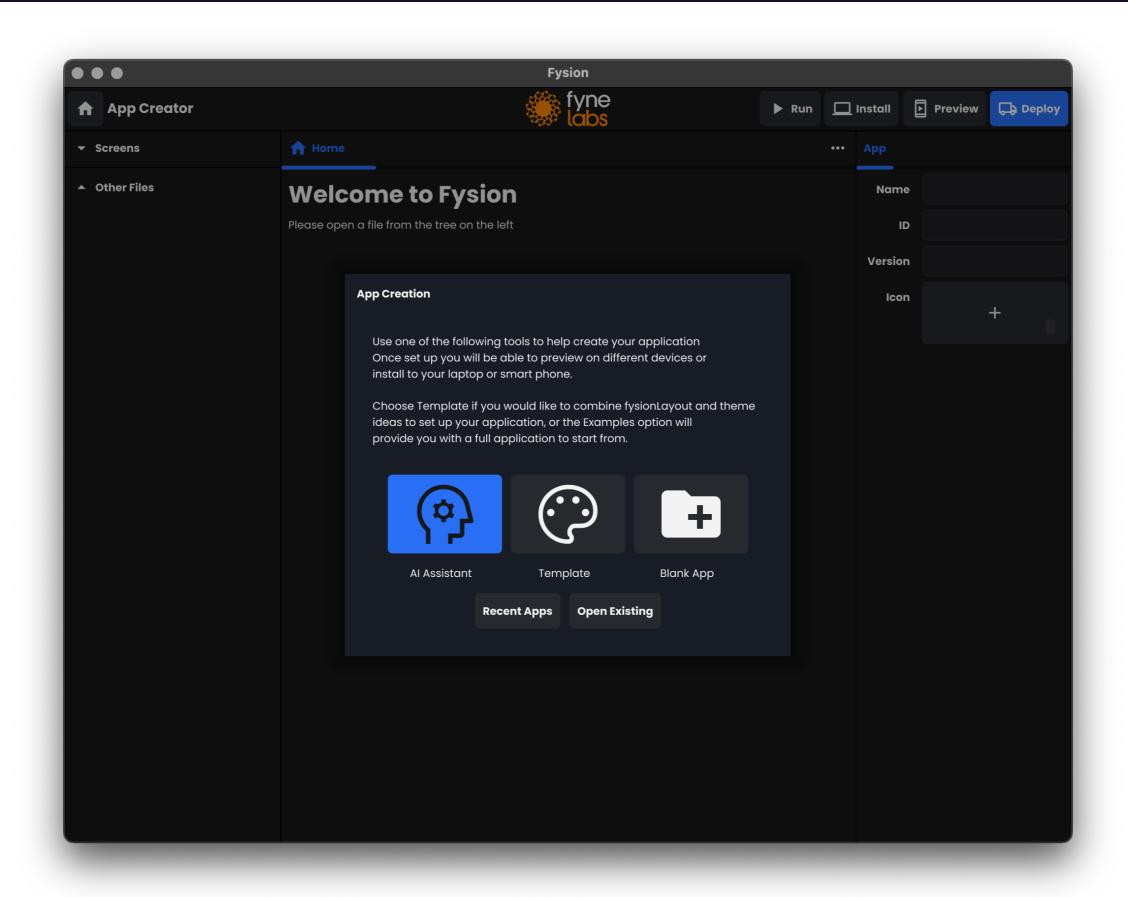
developing beautiful and usable native graphical applications for desktop, mobile and beyond



## Fyne Stats

- 6 years old
- Most popular GUI toolkit for Go
- Ranked 6th of all GUI tools by @OSSInsight
- Over 24750 GitHub stars!
- Community of >2350 on Slack, Discord, Matrix
- 15% popularity of Flutter, 20% of React Native

## Build apps without coding!



## Fysion Aims

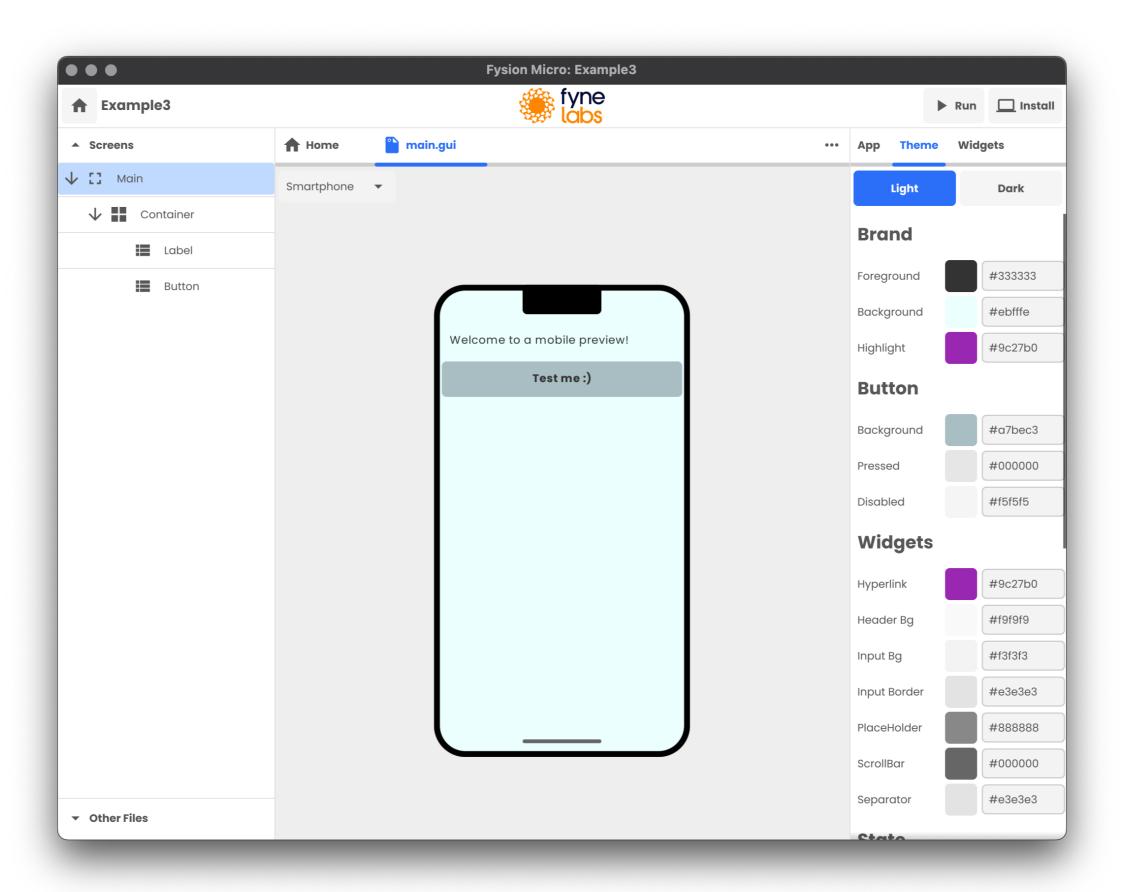
- Native app, runs everywhere
- Graphical editing of UI & theme
- Build on top of a real codebase
- Compile apps for all platforms
- Open source for local creation
- Business add-ons



## Files and source control

- Start from scratch or from templates
- Git to manage source control
- go mod init and tidy
- Metadata stored in repo
- All changes written to source code

# Theme handling

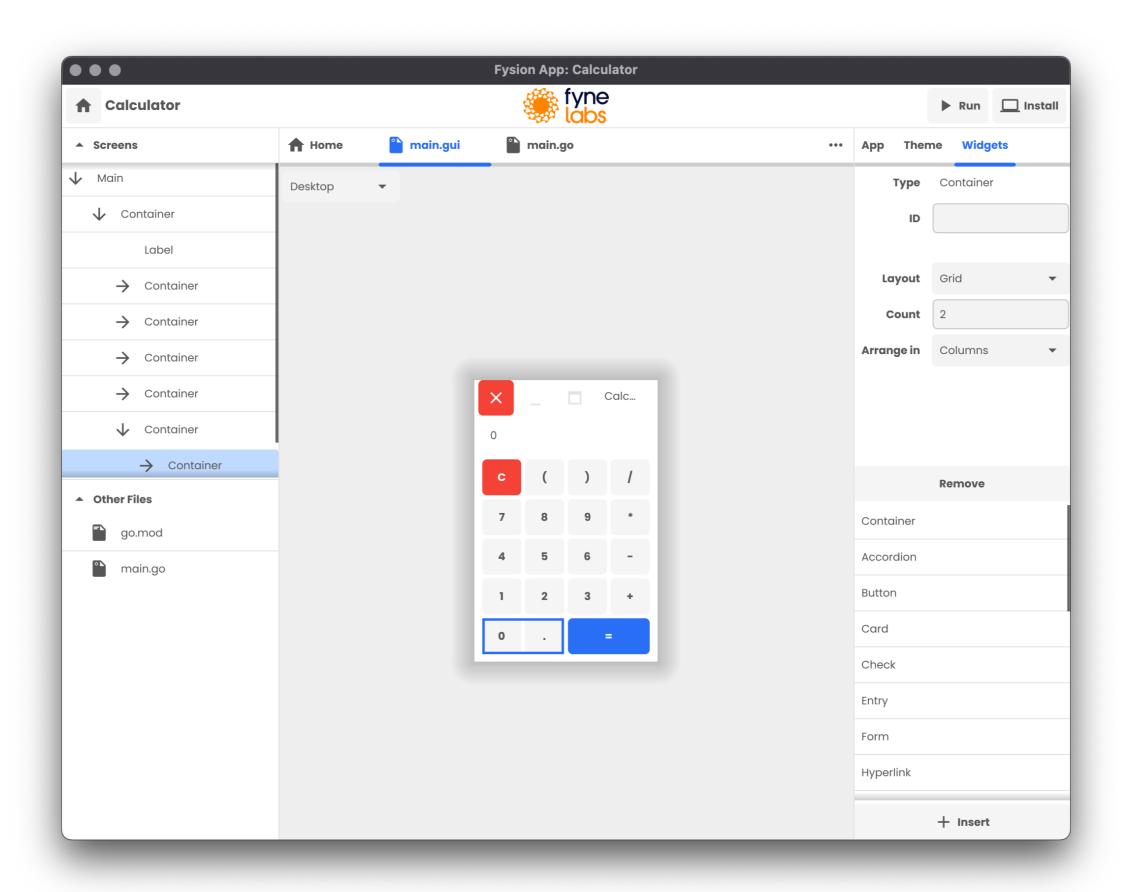


## Theme handling

- Theme data written to JSON
- Inserted with go:embed
- Loaded using theme.FromJSON
- Light/Dark colours
- Fonts/icons/sizes

```
"Colors": {
  "foreground": "#fffffff"
"Colors-dark": {
  "foreground": "#c0c0c0ff"
"Colors-light": {
  "background": "#303030ff",
  "hyperlink": "#3030c0ff"
"Sizes": {
  "iconInline": 10.0
```

# Widget editing



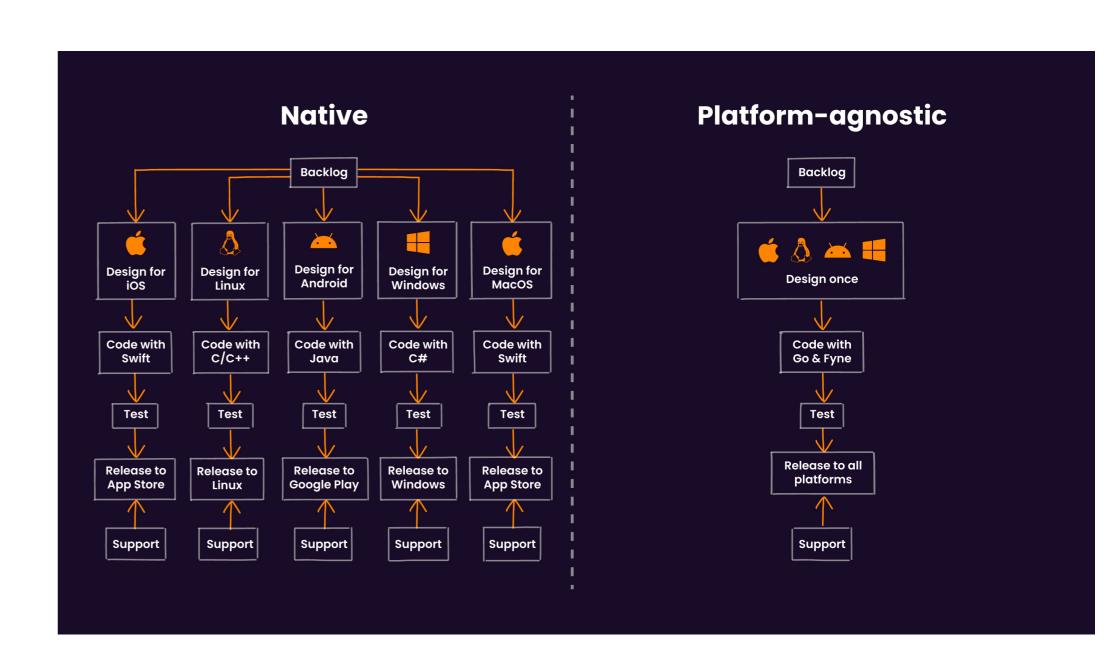
## Widget editing

- Serialise object tree to JSON
- Defyne lib for save/load
- github.com/fyne-io/defyne
- Code generated by GoString()
- Widget create / edit with defyne

```
"Object": {
  "Type": "*fyne.Container",
  "Layout": "Grid",
  "Name": "",
  "Objects": [
      "Type": "*widget.Label",
      "Name": "out",
      "Struct": {
        "Hidden": false,
        "Text": "0",
        "Alignment": 0,
        "Wrapping": 0,
        "TextStyle": {
          "Bold": false,
          "Italic": false,
```

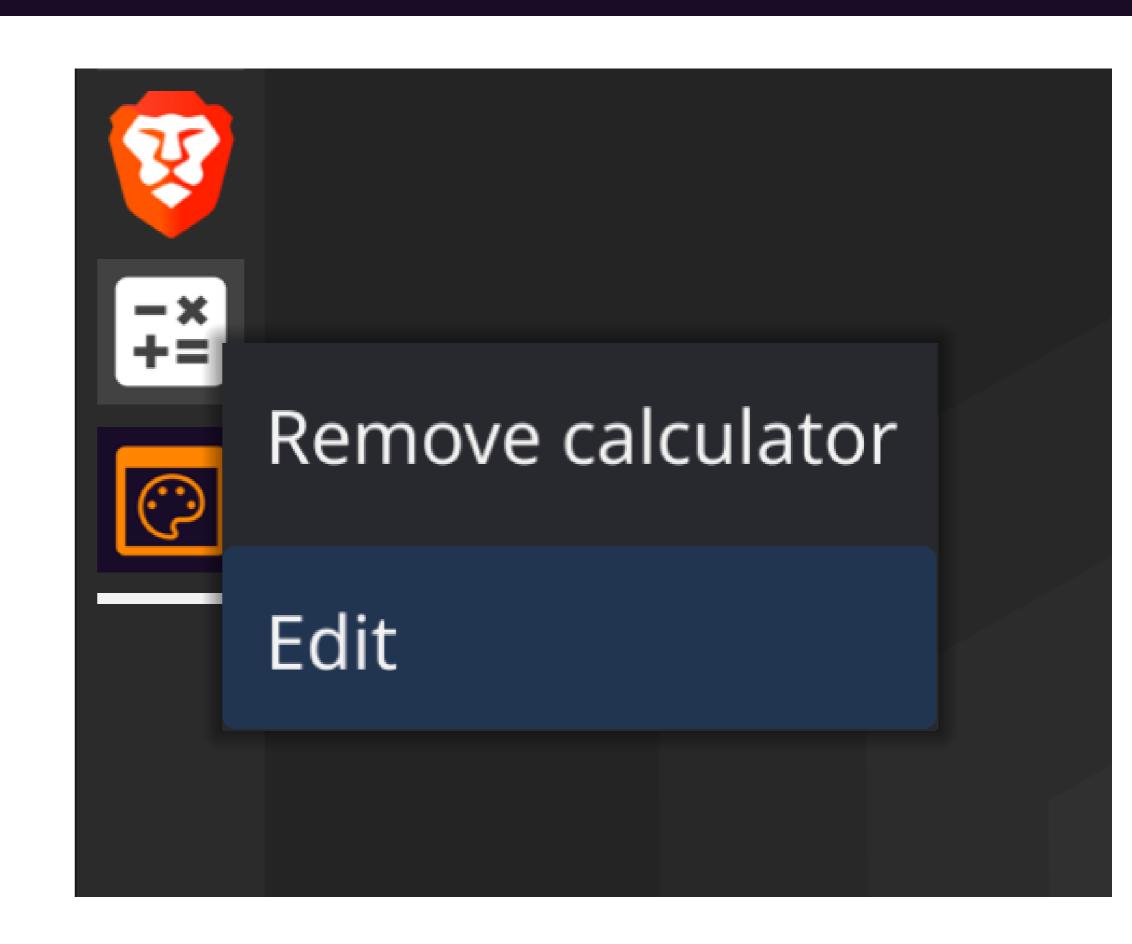
## Compiling (local or cloud)

- Developer tools for local
- Install to computer
- Deploy on Geoffrey CI
- Downloads for all platforms
- fynelabs.com/geoffrey



# FyshOS integration

- Desktop Linux with Fyne
- Apps created with Fysion
- Edit direct from app icons
- Install your modifications
- https://fyshos.com



## Live Demo

#### Learn more

- https://fysion.app
- Slack "Fysion"
- Demo video: https://youtu.be/1wMPe9pb3-o

#### Open Source:

- Code Videos: https://youtube.com/@fynelabs
- Source: https://github.com/fynelabs/fysion-tutorials/

## Questions?

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