Low-code graphical apps with Go

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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
• Ranked 6th of all cross-platform GUI tools by @OSSInsight
• In GitHub 1000 most popular repositories
• 8 core contributors
• Community of >2000 on Slack, Discord, Matrix
Build apps without coding!
Aims

• Native app, runs everywhere
• Graphical editing of UI & theme
• Build on top of a real codebase
• Compile apps for all platforms
• Open source core
• 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
Widget editing
**Widget editing**

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

```json
"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
- Cross compiling with Docker
- Build on Geoffrey cloud

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
- https://fynelabs.com/low-code-app-builder-feedback/

Open Core:
- Code Videos: https://youtube.com/@fynelabs
- Source: https://github.com/fynelabs/fysion-tutorials/
Questions?
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