



[bit.ly/esd-wails](https://bit.ly/esd-wails)

or

[github.com/sebivenlo/esd-2024-wailsvue](https://github.com/sebivenlo/esd-2024-wailsvue)

# Wails & Vue

---

Kristijan, Luca & Miro



Vue.js



**W A I L S**

# Our Goals

---



LEARN SOME VUE.JS



BRING WEB-TECHNOLOGY TO THE DESKTOP



HAVE IT BUNDLED IN A SINGLE EXECUTABLE

# Wails Framework

---

- Builds desktop apps using Go
- Has quick start templates (for Svelte, React, Vue, Preact, Lit & Vanilla)
- Uses native elements for an OS appropriate look and feel
- Go & JS interoperability helps connecting frontend



# Wails Framework

Provides runtime library to handle eventing, logging, dialogs etc.

Live development – automatic rebuilds and reloads

Allows developing in a browser (auto-refresh when assets change on disk)

# Competition – Electron 1/2



Category	Electron	Wails
Footprint	>100MB	<10MB
Architecture	Bundled Chromium/Node.js Engine	Relies on System's Webview
Stack	JavaScript/TypeScript + any Frontend	GoLang + any Frontend
Community	Large, Matured Community	Growing rapidly among Go developers

# Competition – Electron 2/2



Category	Electron	Wails
Performance	Resource intensive	Lower resource usage
Complexity	Higher degree of customization + control over underlying system	Designed to be more accessible and easier to use

# Competition - Tauri



Category	Tauri	Wails
Language	Rust	Go
Community support	Larger and rapidly growing	Smaller but rapidly growing
Package	Installer Only*	Single Executable
Trade-offs	Steeper learning curve, but more secure	Easier to use, but lacks some advanced features

# Why choose Wails?

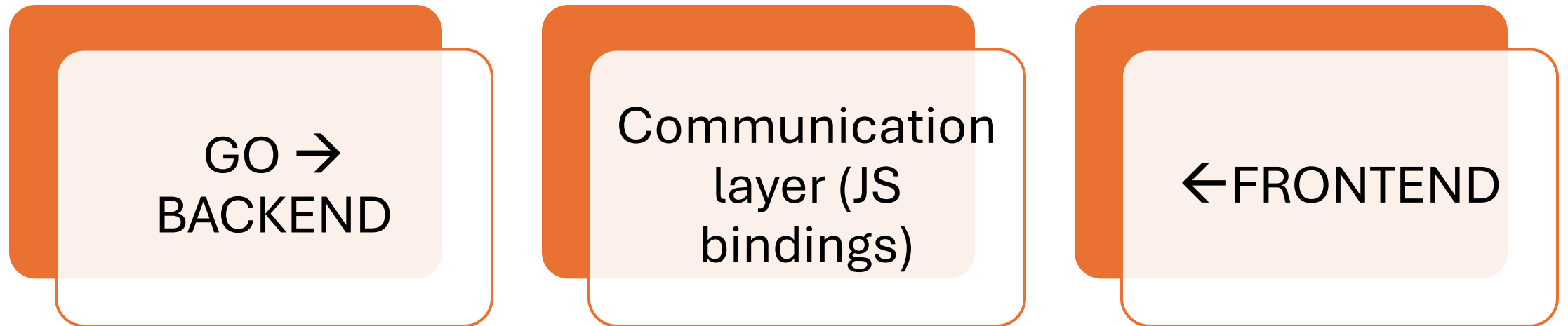
Advantages compared to other frameworks:

- Startup & Execution Speed
- Go backend
- Small Footprint
- No Node.js runtime
- Wails build → single executable



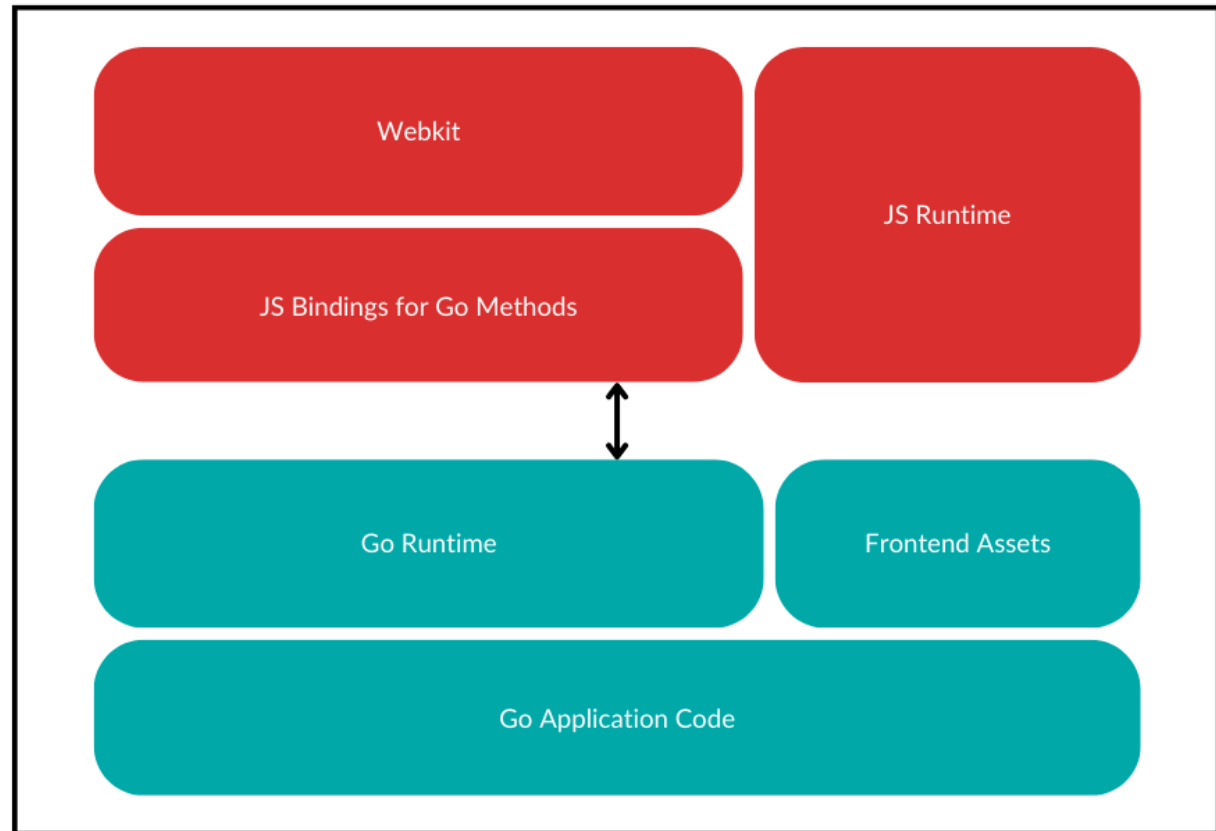


# Architecture



# Architecture

## Components of a Wails App



# Vue – one of the frontend options

---

- JS framework used for building UIs
- Created by Evan You in 2014
- Builds on top of HTML CSS & JS



# Vue – Key Features

**Reactive  
Components**

**Declarative  
Rendering**

**Template  
Syntax**

**Reusable  
Components**

# Vue – Benefits of use

- Easy to learn – gentle learning curve
- Can be used for small to large scale apps
- Can be progressively added to apps
- Single file components
- Already large community
- Lightweight





# Vue - Basic Concepts You'll Learn

1. **Templating**
2. **Components**
3. **Data Binding**
4. **Event Handling**
5. **Conditional Rendering**

Thank you for your  
attention!

Let's start with the  
workshop!



# Sources

[wails.io/docs/introduction](https://wails.io/docs/introduction)

[vuejs.org/guide/introduction](https://vuejs.org/guide/introduction)