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#### Build cross-platform modern desktop apps in Go + HTML5

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.travis.yml	fix ci build	fix ci build		
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Chrome.go	add functions to exp	add functions to export page or svg to pdf and png formats (#22)		Dec 2, 2018
chrome_test.go	fix chrome binding t	fix chrome binding test		Nov 7, 2018
export.go	return eval errors du	return eval errors during export		Dec 3, 2018
■ fs.go	Custom package na	Custom package name (#31)		
■ go.mod	initial commit	initial commit		
■ go.sum	initial commit	initial commit		
Iocate.go	Look for chrome in	Look for chrome in different paths depending on OS (#37)		Feb 2, 2019
Iocate_test.go	add test that reports	add test that reports chrome version		
lorca.png	add logo	add logo		
messagebox.go	add PromptDialog te	add PromptDialog to ask user to install chrome if that one is missing		
messagebox_windows.go	add PromptDialog te	add PromptDialog to ask user to install chrome if that one is missing		
🖹 ui.go	Merge branch 'mast	Merge branch 'master' of github.com:zserge/lorca		Dec 10, 2018
È ui_test.go	use temporary profi	use temporary profile dir if no dir is specified		
value.go	fix linter warnings	fix linter warnings		
■ value_test.go	fix linter warnings	fix linter warnings		Nov 7, 2018

E README.md

# Lorca

#### build passing godoc reference go report A+



A very small library to build modern HTML5 desktop apps in Go. It uses Chrome browser as a UI layer. Unlike Electron it doesn't bundle Chrome into the app package, but rather reuses the one that is already installed. Lorca establishes a connection to the browser window and allows calling Go code from the UI and manipulating UI from Go in a seamless manner.

## **Features**

- Pure Go library (no cgo) with a very simple API
- Small application size (normally 5-10MB)
- Best from the two worlds the whole power of HTML/CSS to make your UI look good, combined with Go performance and ease of development
- Expose Go functions/methods and call them from JavaScript
- Call arbitrary JavaScript code from Go
- Asynchronous flow between UI and main app for both languages (async/await and Goroutines)
- Supports loading web UI from the local web server or via data URL
- Supports embedding all assets into a single binary
- Supports testing your app with the UI in the headless mode
- Supports multiple app windows
- Supports packaging and branding (e.g. custom app icons). Packaging for all three OS can be done on a single machine using GOOS and GOARCH variables.

Also, limitations by design:

- Requires Chrome/Chromium >= 70 to be installed.
- No control over the Chrome window yet (e.g. you can't remove border, make it transparent, control position or size).
- No window menu (tray menus and native OS dialogs are still possible via 3rd-party libraries)

If you want to have more control of the browser window - consider using webview library with a similar API, so migration would be smooth.

# Example

```
ui, _ := lorca.New("", "", 480, 320)
defer ui.Close()

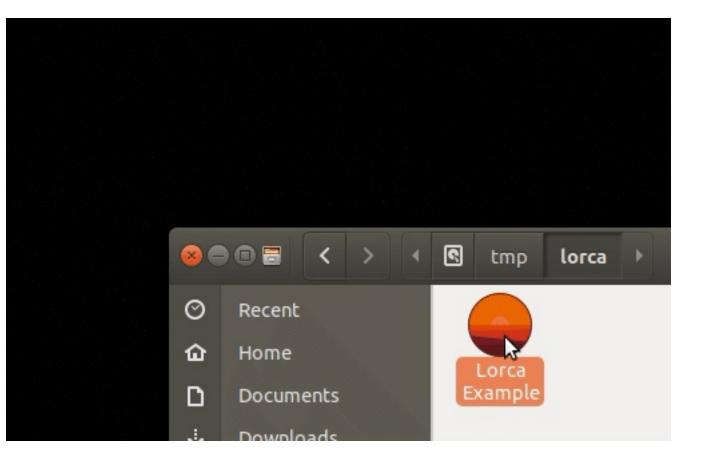
// Bind Go function to be available in JS. Go function may be long-running and
// blocking - in JS it's represented with a Promise.
ui.Bind("add", func(a, b int) int { return a + b })

// Call JS function from Go. Functions may be asynchronous, i.e. return promises
n := ui.Eval(`Math.random()`).Float()
fmt.Println(n)

// Call JS that calls Go and so on and so on...
m := ui.Eval(`add(2, 3)`).Int()
fmt.Println(m)

// Wait for the browser window to be closed
<-ui.Done()</pre>
```

Also, see examples for more details about binding functions, embedding assets and packaging binaries.



### How it works

Under the hood Lorca uses Chrome DevTools Protocol to instrument on a Chrome instance. First Lorca tries to locate your installed Chrome, starts a remote debugging instance binding to an ephemeral port and reads from stderr for the actual WebSocket endpoint. Then Lorca opens a new client connection to the WebSocket server, and instruments Chrome by sending JSON messages of Chrome DevTools Protocol methods via WebSocket. JavaScript functions are evaluated in Chrome, while Go functions actually run in Go runtime and returned values are sent to Chrome.

# What's in a name?

There is kind of a legend, that before his execution Garcia Lorca have seen a sunrise over the heads of the soldiers and he said "And yet, the sun rises...". Probably it was the beginning of a poem. (J. Brodsky)

Lorca is an anagram of Carlo, a project with a similar goal for Node.js.

## License

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