7 Surprising Features of The Go Playground

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1 // Matt Dale, 9 Jul 2024
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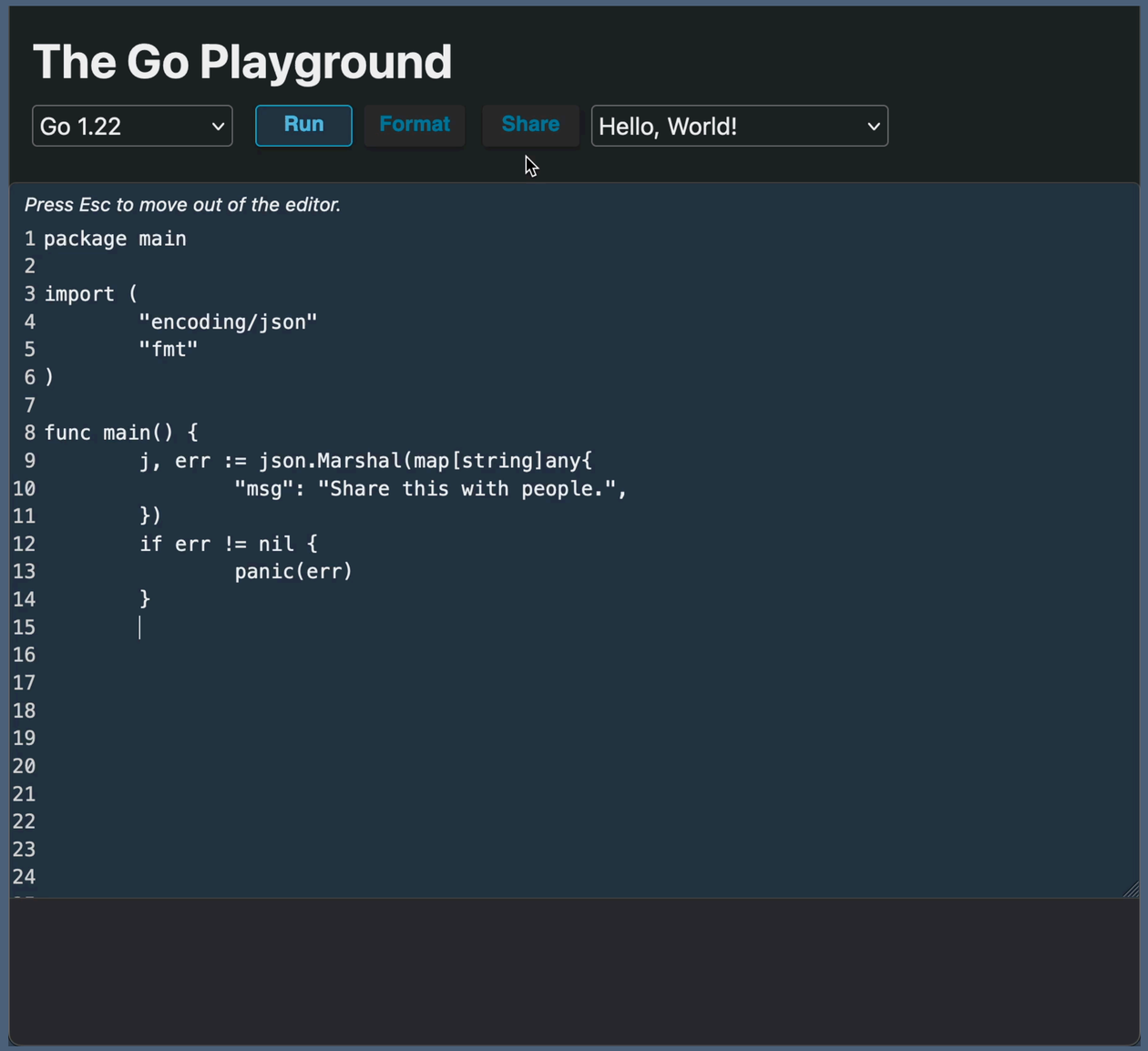
Why Are We Talking About the Go Playground?

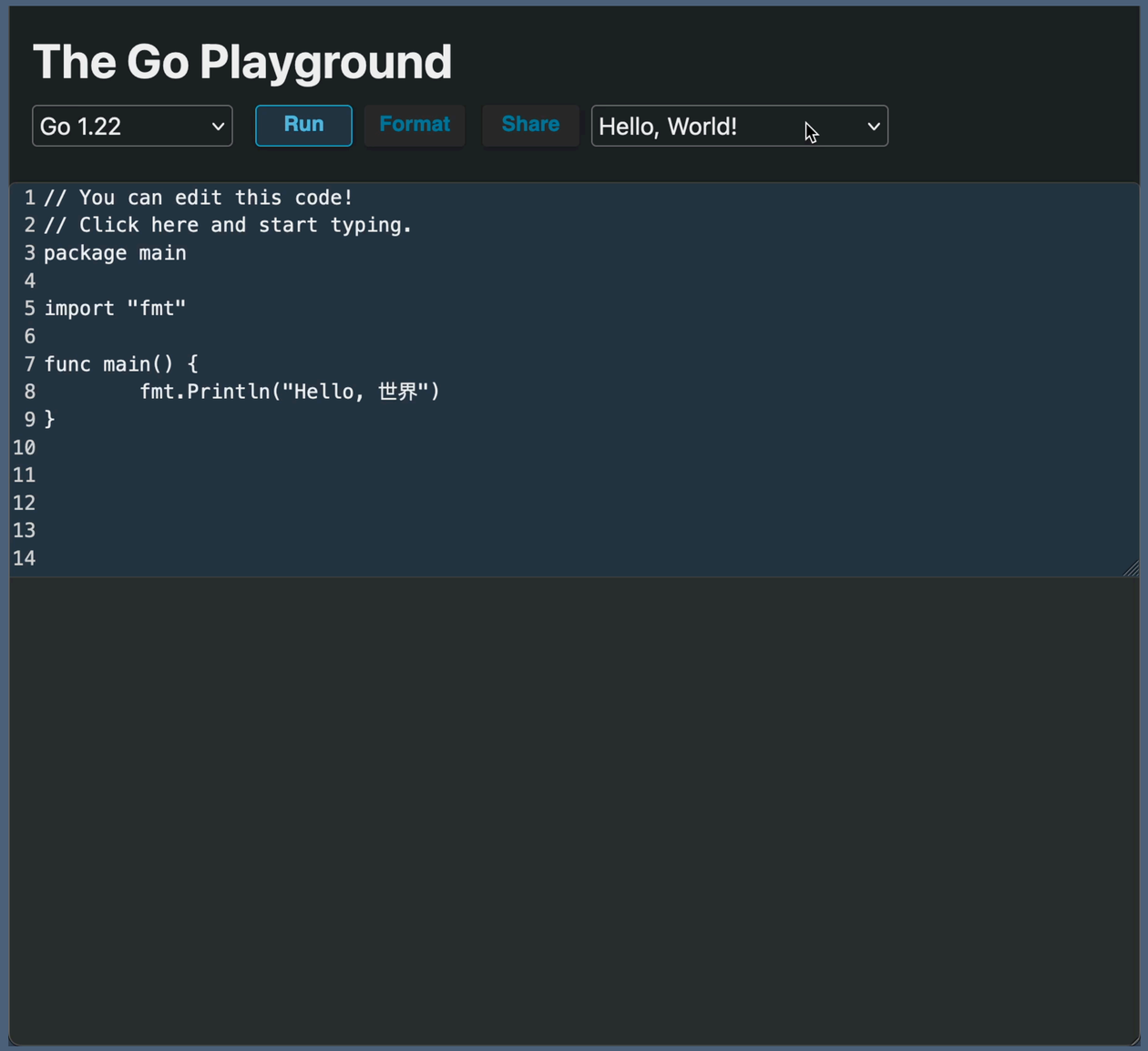
- Share ideas using Go code.
- Interact with Go code examples.
- It has lots of surprisingly useful features.



https://go.dev/play/p/2noPn2YOt6P

Why Are We Talking About the Go Playground?

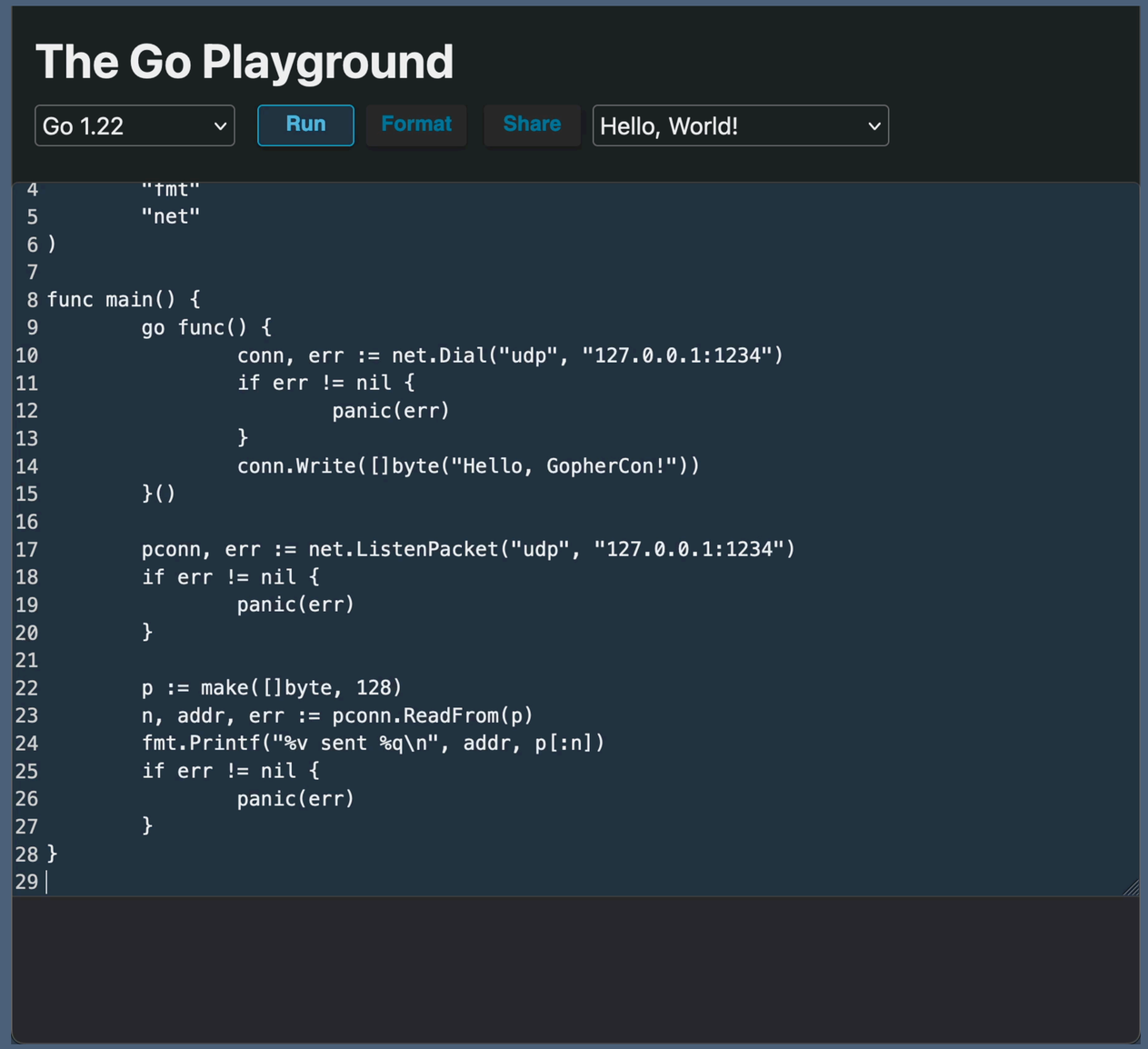
- Share ideas using Go code.
- Interact with Go code examples.
- It has lots of surprisingly useful features.
- It can run Conway's Game of Life.



https://go.dev/play/p/jibIOKi7wqW

A Local Network

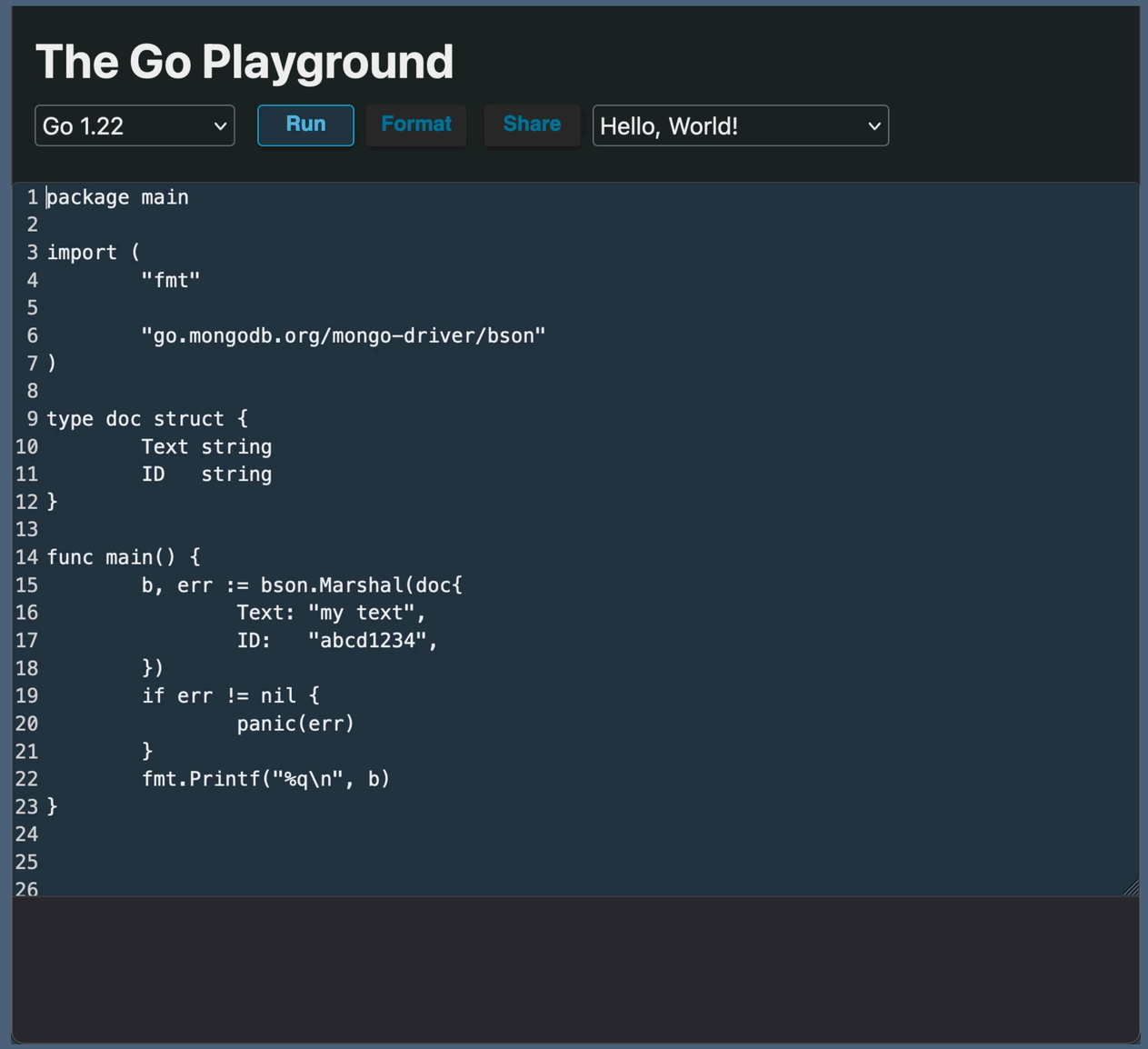
- Connect to a local network.
- Communicate between goroutines.
- No Internet connection.



https://go.dev/play/p/eP8KlyLLAqh

External Modules

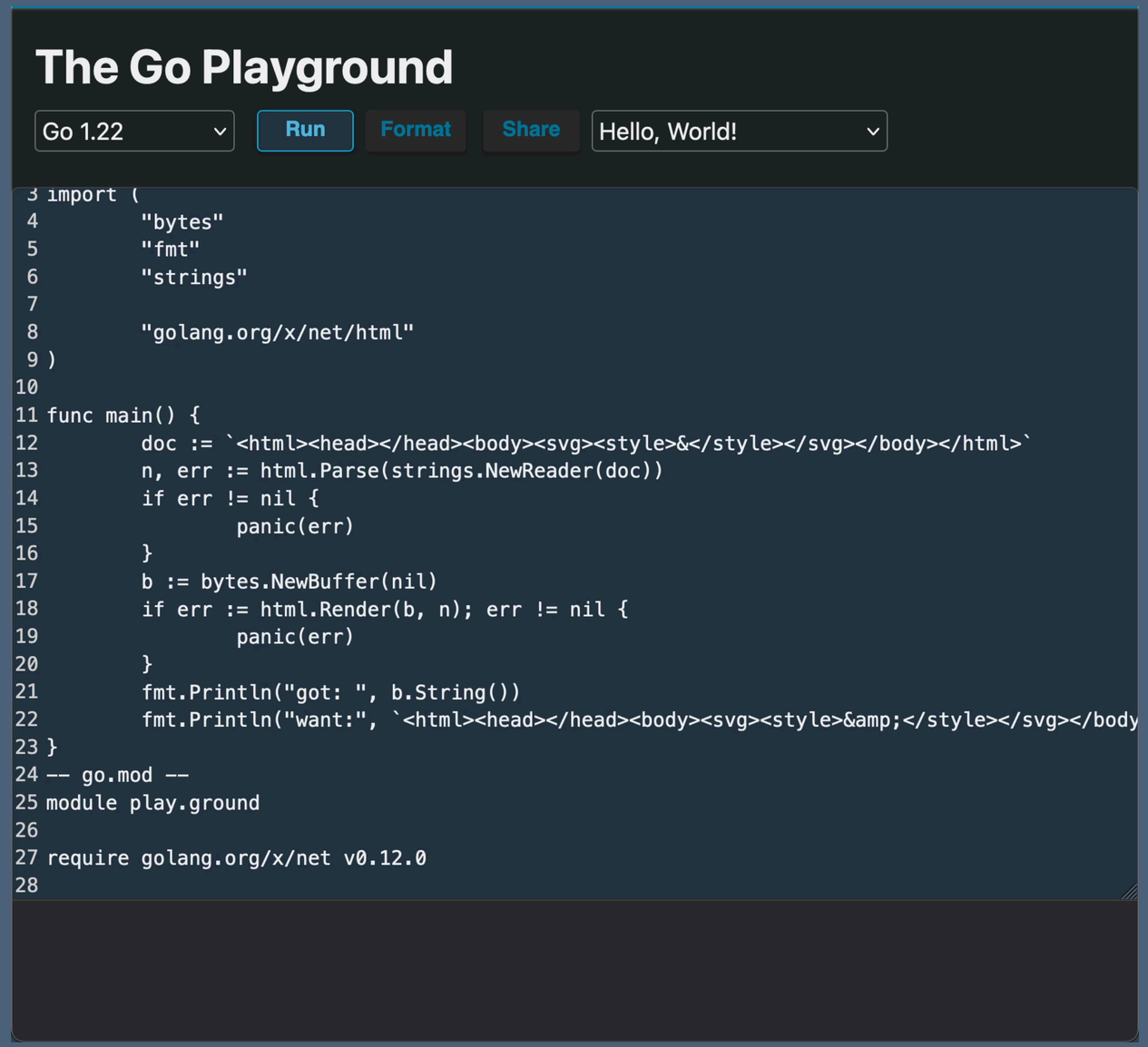
- Support for pulling in external modules was added in 2019.
- Can be quicker than creating a new local project.



https://go.dev/play/p/KbWrRIdGYIp

Multiple Files

- Define new files using the **`-- <file path> --`** syntax.
- Define files in different directories.
- Modify module versions by defining a **`go.mod`** file.



https://go.dev/play/p/x_VWq2ADJYe

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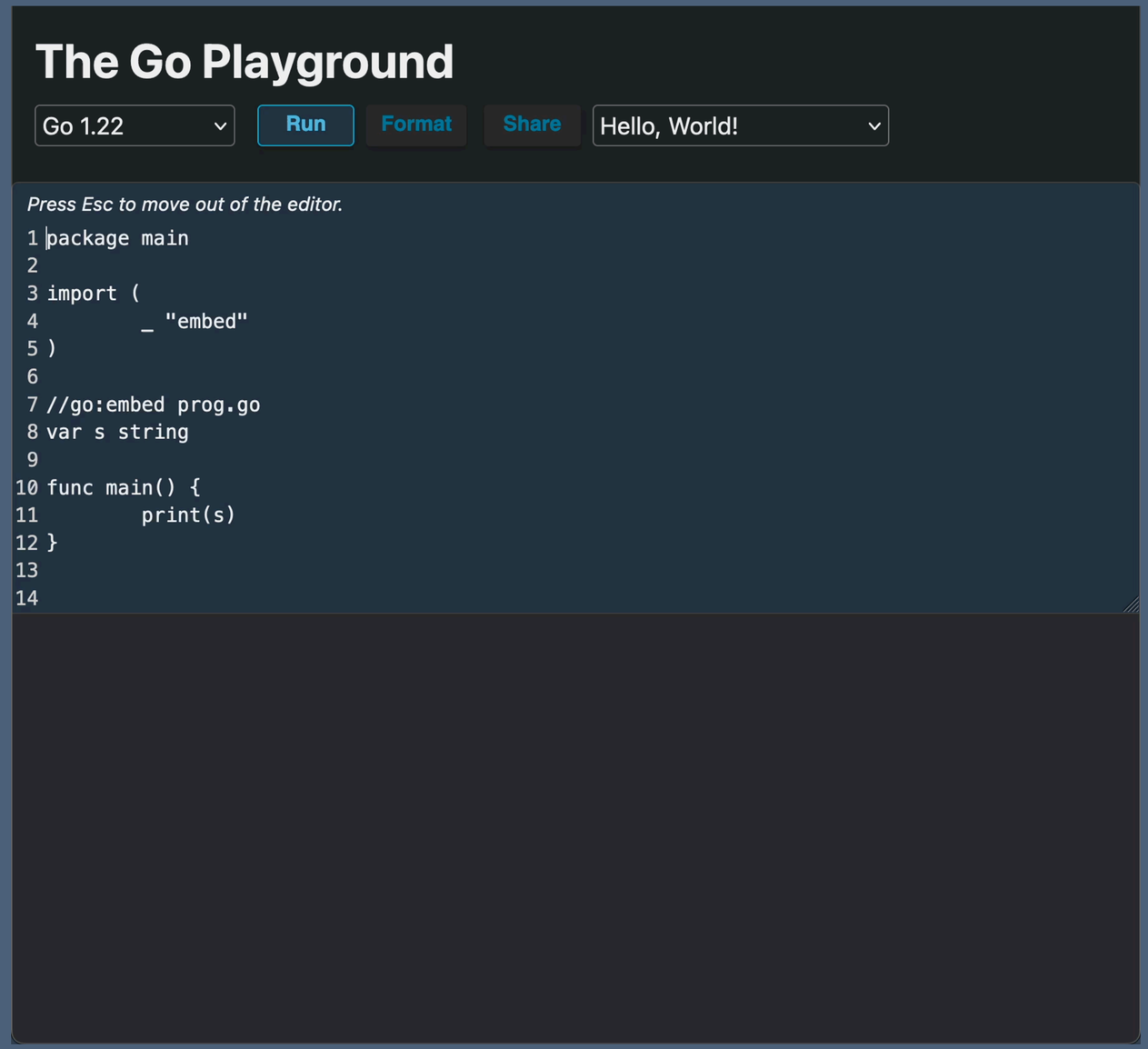


https://go.dev/play/p/SveZFUtkx7P

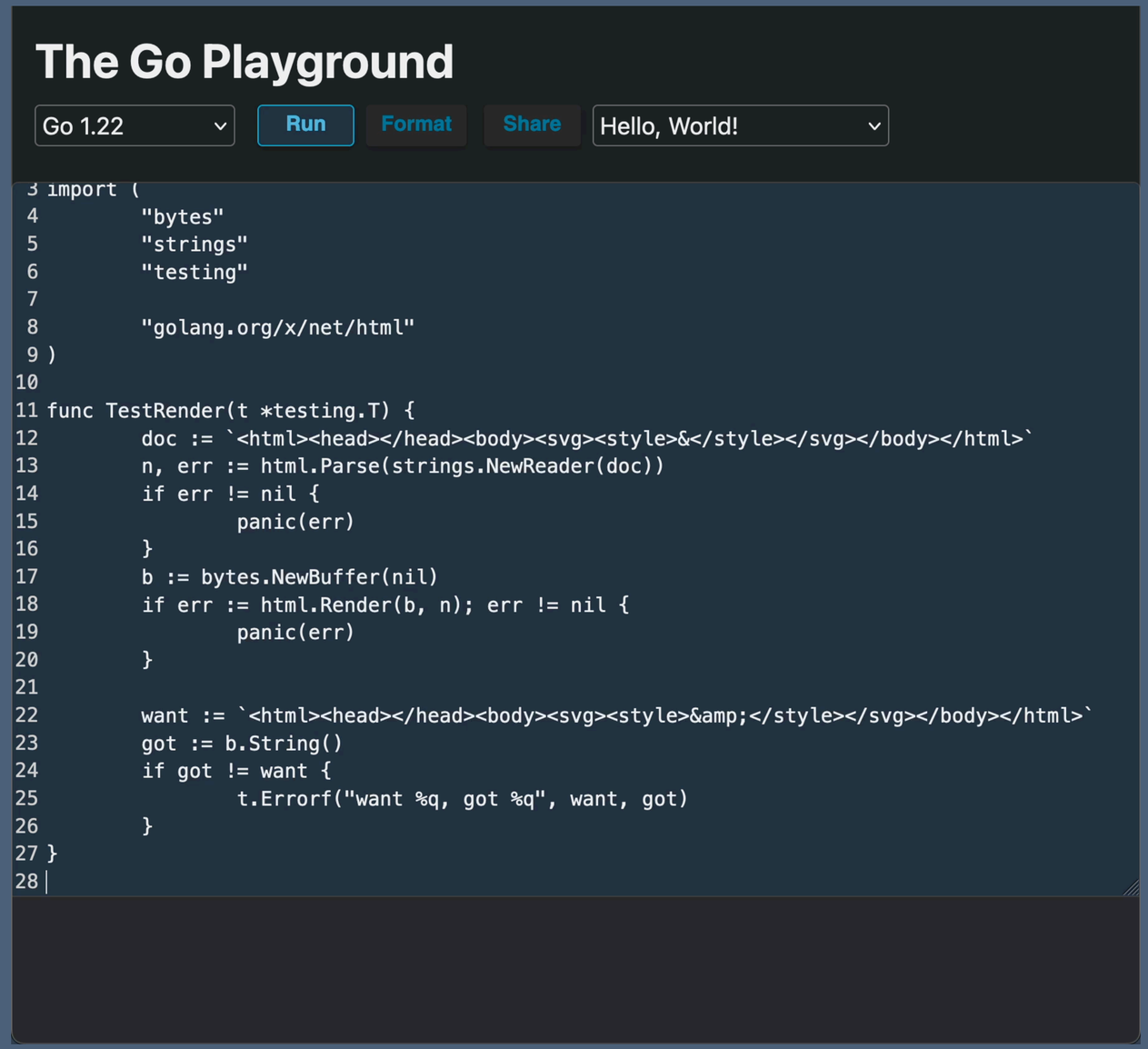
A Local Filesystem

- Read and write files using the playground's in-memory filesystem.
- Listen for filesystem events.
- Run executables like **`grep`** and **`tr`**.

https://go.dev/play/p/30uwHiI-AsW

Go Tests

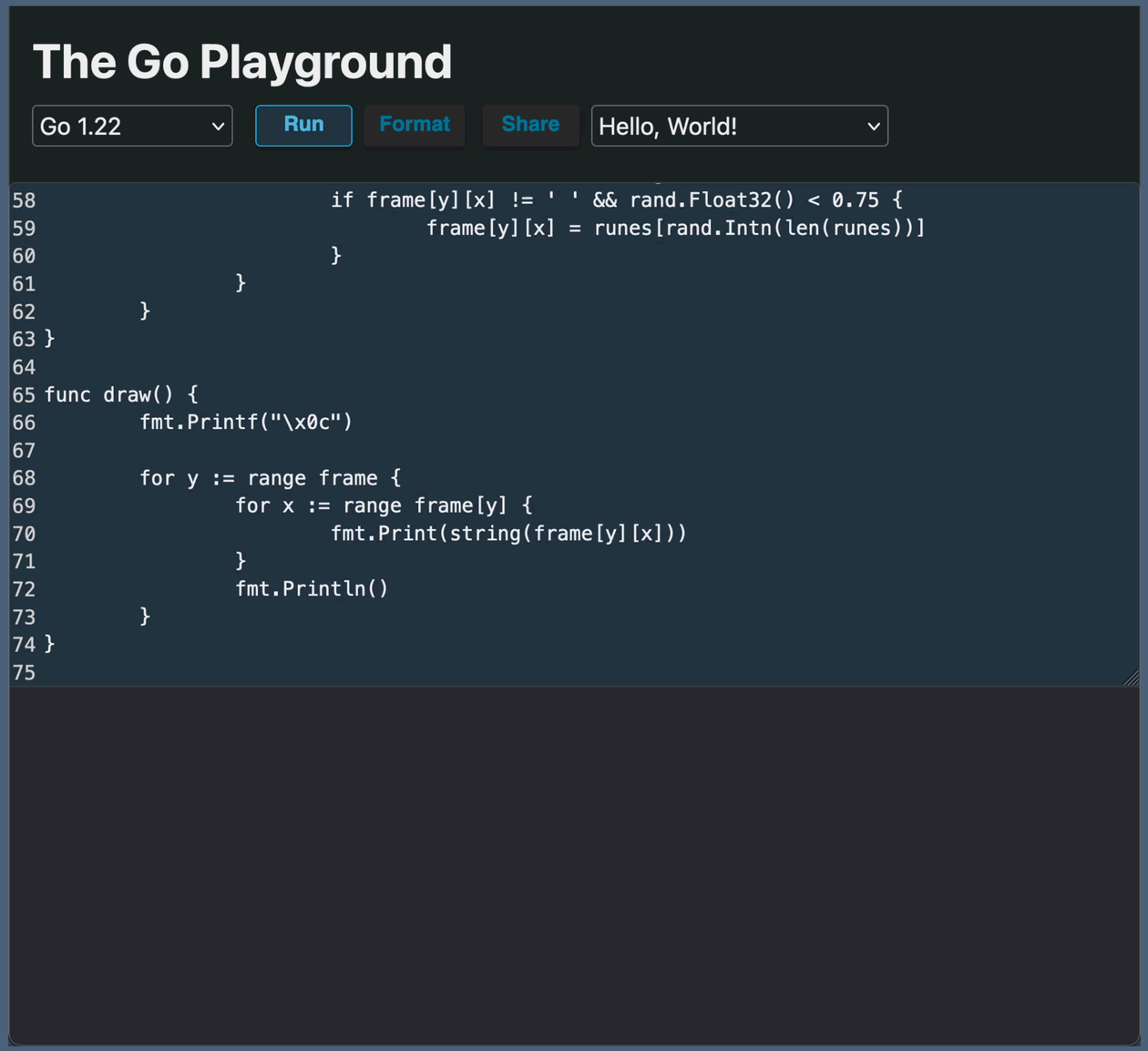
- Write function signatures like Go tests instead of a **`main`** function.
- The Go Playground runs **`go test`** instead of **`go run`**.



https://go.dev/play/p/DQyns6lMKGB

Clear the Terminal

- Clear the terminal by printing **“\x0c”**.
- Create cool text effects.



https://go.dev/play/p/KIP3LZz5u4Q

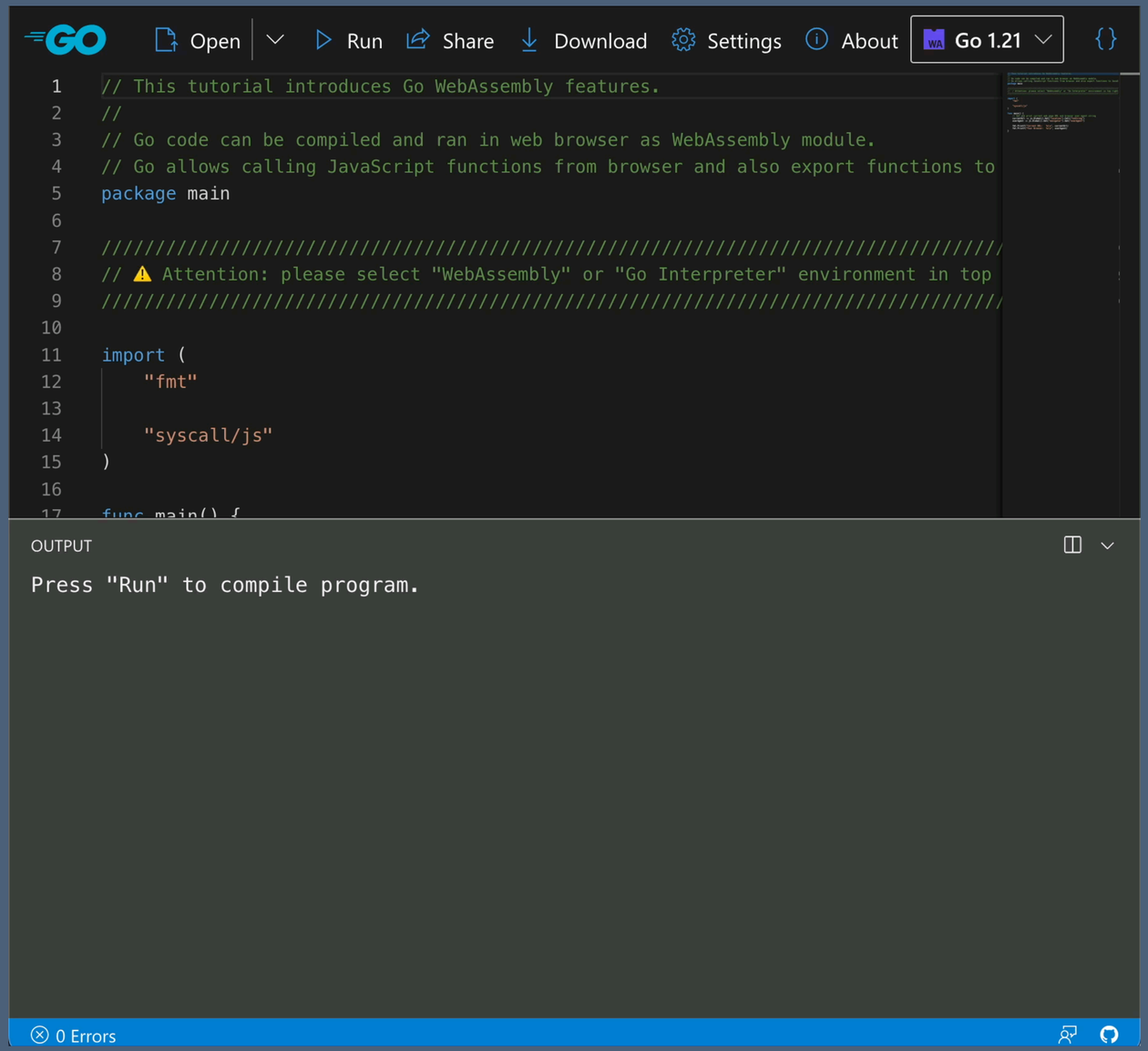
Display Images

- Print **`"IMAGE:"`** followed by the base64-encoded image data.
- Works with anything that the browser can display in an **`<img>`** tag, including GIFs.

https://go.dev/play/p/8N0VwWzZ0Op

goplay.tools

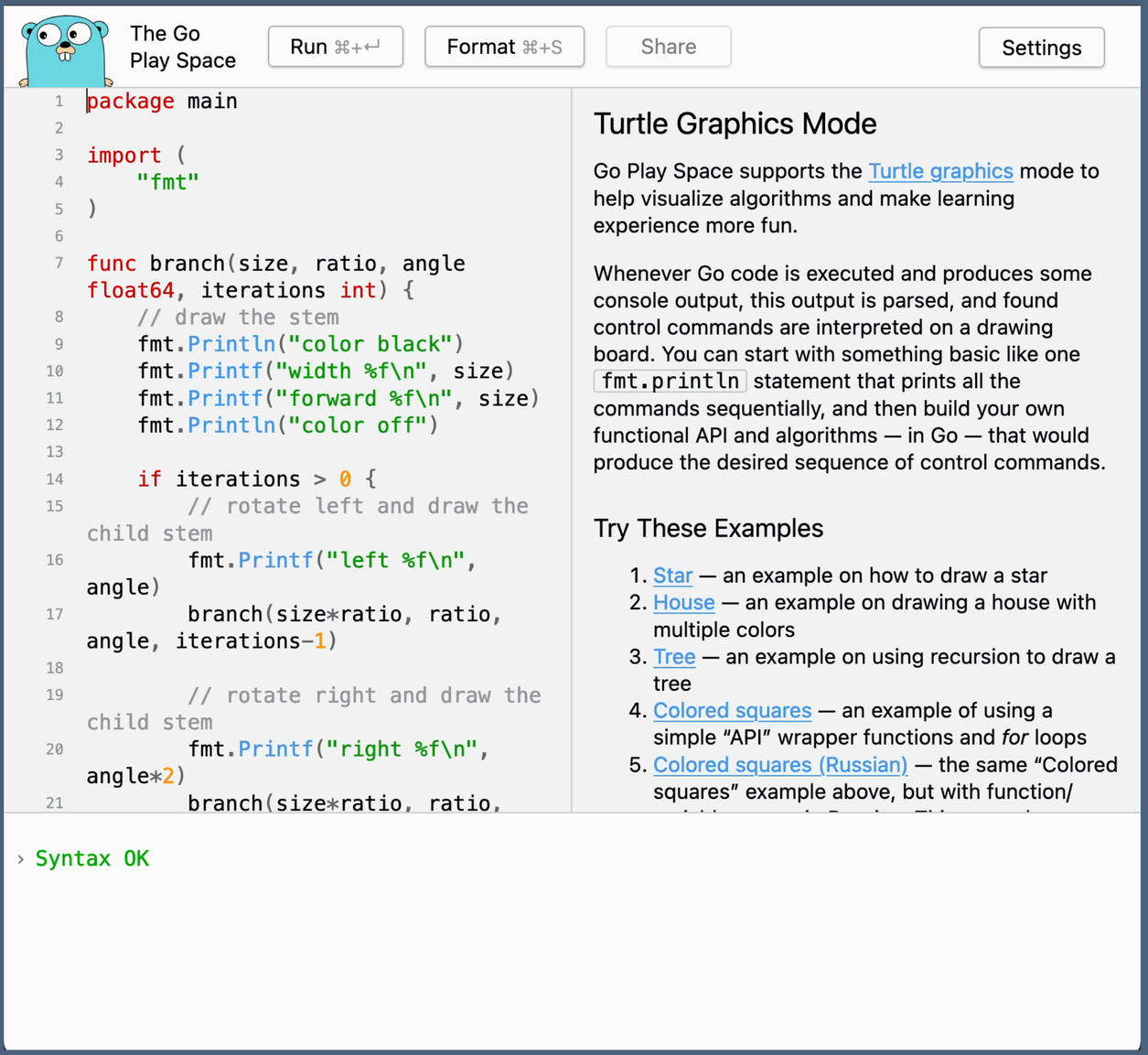
- Syntax highlighting and code completion.
- Compile as WebAssembly and run in-browser.



https://goplay.tools/snippet/CmRxNZQXvqB

goplay.space

- Syntax highlighting.
- Turtle graphics mode.



https://goplay.space/#61SJKVrWwj

Thank you!

Find links to these examples at:
github.com/matthewdale/gophercon2024