

What's new on 1.21



Let's take a look into some of the recent additions to the language

Who am I?

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- ~~(tired 🧑)~~ Software Engineer
- ~~Hobbies~~ I have a baby boy at home



Agenda



- The new versioning on go.mod
- New additions to the standard library (min, max and clear)
- New packages (log/slog, slices, maps, cmp) and some minor additions to existing packages (context, errors)
- The Loopvar experiment
- Potential breaks to keep an eye on 👁️👁️

Gophers



- All the gophers used in this presentations were designed by @egonelbre.
- Check it out here: <https://github.com/egonelbre/gophers>

DEMO TIME!



Potential breaks to keep an eye on 🙄🙄

Package initialization order is now specified more precisely. The new algorithm is:

- Sort all packages by import path.
- Repeat until the list of packages is empty:
 - Find the first package in the list for which all imports are already initialized.
 - Initialize that package and remove it from the list

Potential breaks to keep an eye on 🙄

Go 1.21 now defines that if a goroutine is panicking and `recover` was called directly by a deferred function, the return value of `recover` is guaranteed not to be `nil`. To ensure this, calling `panic` with a `nil` interface value (or an untyped `nil`) causes a run-time panic of type `*runtime.PanicNilError`.

Thank you!

