Tools for Understanding Go Module Dependencies

What are Go modules?

go.mod

Everything is sweet 🥥

Gotcha 1

go.mod versions aren't the compiled versions

Gotcha 2

go.mod does not tell us all our deps

Gotcha 3

go.mod tells us nothing about indirect deps

GOOD
NEWS
IS COMING

Tool 1

```
go list -m all
```

Tool 2

`go mod graph`

Tool 3

```
go mod why <pkg>
```

```
go mod why -m <module>
```

Tool 4

install: `go get github.com/stellar/golistcmp`

```
golistcmp <go list before> <go list after>
```

Recap

`go list -m all`

`go mod graph`

`go mod why`

`golistcmp`

Further Reading

alexedwards.net/blog/an-overview-of-go-tooling

golang.org/ref/mod

ardanlabs.com/blog/2019/12/modules-03-minimal-version-selection.html

research.swtch.com/vgo
research.swtch.com/vgo-principles

Attributions

- Photo of Man with fresh coconut relaxing by Artem Beliaikin
- Photo of Good news is coming by Jon Tyson