

Golang Tutorial #2

Hands on

golang coding convention

- camelCase
- [official blog](#)
- package name 單數名詞
- package 內部 variable name 不要重複 prefix, e.g.,
`chubby.ChubbyFile`
- [error variable naming](#): prefix with `err` or `Err`
- Named Result Parameters 個人喜好

golang package template/example

- example: [awesome](#)
 - [server application](#)
 - [cmd tools](#)
 - [library](#)
- [project layout](#)

go example on go routines, channels 用法

- <https://blog.golang.org/go-concurrency-patterns-timing-out-and>
- <https://blog.golang.org/pipelines>
- <https://talks.golang.org/2012/concurrency.slide>
- Channel Example:
<https://gitlab.devops.maaii.com/general-backend/mongodao/blob/master/pool.go#L75>
- Goroutine Example:
<https://gitlab.devops.maaii.com/general->

go mod

- `go mod init github.com/xxx/xxx`

```
module gitlab.com/eaglerayp/lotushouse
require (
    cloud.google.com/go v0.34.0 // indirect
    firebase.google.com/go v3.5.0+incompatible
    github.com/googleapis/gax-go v2.0.2+incompatible //
```

- build `go build ./...`
 - `go build, go test` will automatically add new dependencies (updating go.mod and downloading the new dependencies).
- create vendor `go mod vendor`

go profiling (including tracing, go test benchmark)

- <https://github.com/davecheney/gophercon2018-performance-tuning-workshop>

- `go tool pprof`

- [http pprof](http://pprof)

```
go tool pprof -http=":8011"  
http://localhost:10201/debug/pprof/profile?  
seconds=30
```

- [http pprof example](http://pprof/example)

Extend reading

- [Error handling and Go](#)
- [Go Errors](#)
- [Visualize go routines](#)