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
- <u>error variable naming</u>: prefix with err or Err
- Named Result Parameters 個人喜好

golang package

- namespace
 - shared namespace inside package, global var/func/...
- dependency
 - import by package
- only package main is entry
- godoc split page by package
- test split py package

golang package alias

 https://github.com/golang/go/wiki/CodeReviewC omments#imports

golang package template/example

- example: <u>awesome</u>
 - server application
 - cmd tools
 - library
- project layout

go example on go routines, channels 用法

- https://blog.golang.org/go-concurrency-patternstiming-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

- 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/gophercon2018performance-tuning-workshop
- go tool pprof
- http pprof

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

- seconds=30
- <a href="http://http://http://http://http://http://http://http://http://http://http://http://http://http://http://http://http://http://http://http://http://http://http://http://http://http://http://http://http://http://http://http://http://http://http://http://http://http://http://http://http://http://http://http://http://http://http://http://http://http://http://http://http://http://http://http://http://http://http://http://http://http://http://http://http://http://http://http://http://http://http://http://http://http://http://http://http://http://http://http://http://http://http://http://http://http://http://http://http://http://http://http://http://http://http://http://http://http://http://http://http://http://http://http://http://http://http://http://http://http://http://http://http://http://http://http://http://http://http://http://http://http://http://http://http://http://http://http://http://http://http://http://http://http://http://http://http://http://http://http://http://http://http://http://http://http://http://http://http://http://http://http://http://http://http://http://http://http://http://http://http://http://http://http://http://http://http://http://http://http://http://http://http://http://http://http://http://http://http://http://http://http://http://http://http://http://http://http://http://http://http://http://http://http://http://http://http://http://http://http://http://http://http://http://http://http://http://http://http://http://http://http://http://http://http://http://http://http://http://http://http://http://http://http://http://http://http://http://http://http://http://http://http://http://http://http://http://http://http://http://http://http://http://http://http://http://http://http://http://http://http://http://http://http://http://http://http://http://http://http://http://http://http://http://http://http://http://http://http://http://http://http://http://http://http://http://http://http://http://http://http://http://http://http://http://http://http://http://http://http://http:

Extend reading

- Error handling and Go
- Go Errors
- Visualize go routines