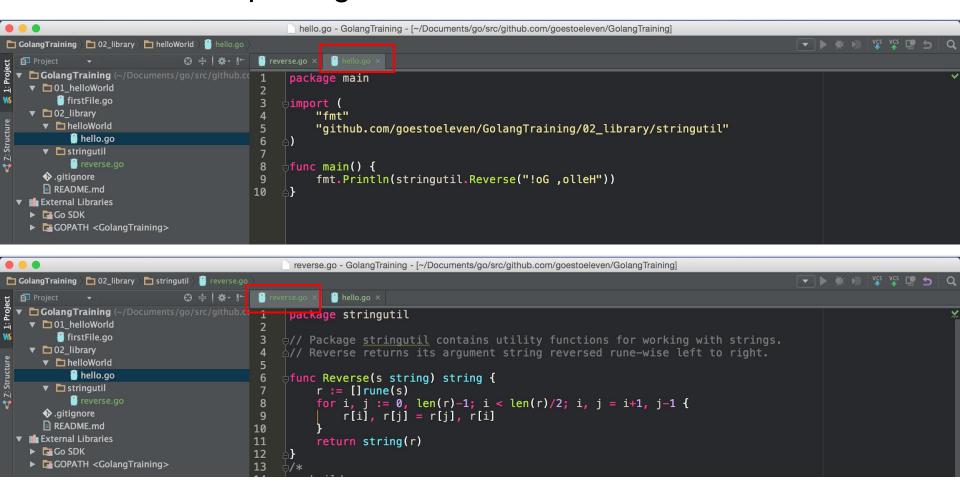
go build & go install

review

two packages and two files from before ...



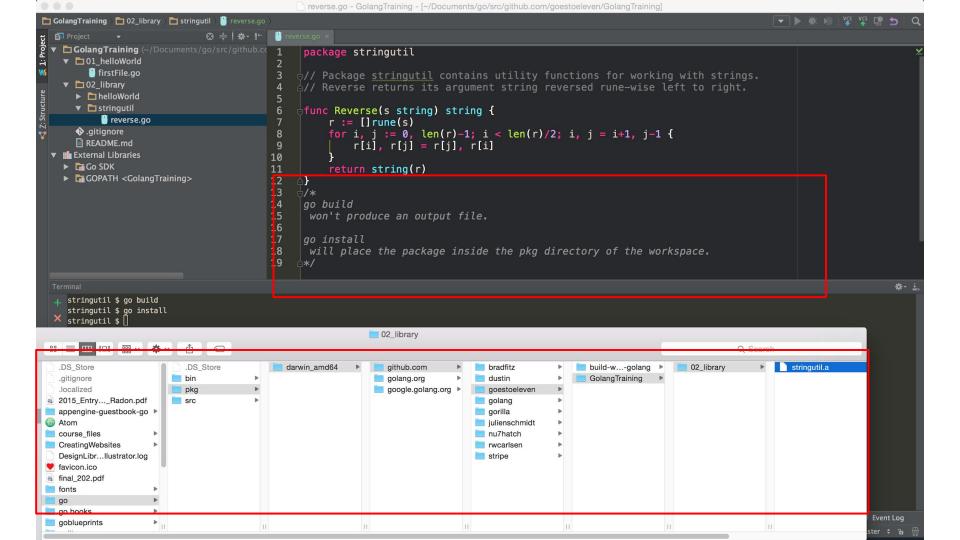
```
reverse.go - GolangTraining - [~/Documents/go/src/github.com/goestoeleven/GolangTraining]
GolangTraining \ 02_library \ stringutil \ reverse.go
                                ⊕ ≑ | ❖- ⊩
  Project
                                             reverse.go ×
1: Project
    GolangTraining (~/Documents/go/src/github.co
                                                   package stringutil
    ▼ □ 01 helloWorld
         firstFile.go

├// Package stringutil contains utility functions for working with strings.

    ▼ 🗖 02 library
                                                  A// Reverse returns its argument string reversed rune-wise left to right.
Z: Structure
       ▶ 🖿 helloWorld
       ▼ 🖿 stringutil

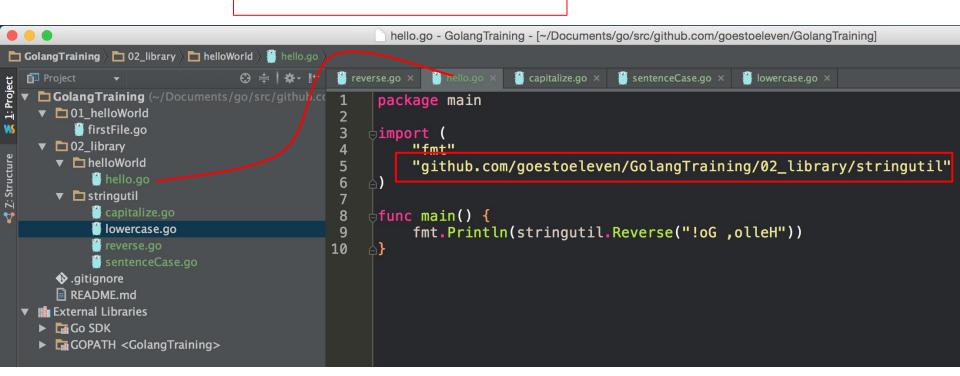
| func Reverse(s string) string {
           reverse.go
                                                        r := []rune(s)
       • .gitignore
                                                        for i, j := 0, len(r)-1; i < len(r)/2; i, j = i+1, j-1 {
       README.md
                                                            r[i], r[j] = r[j], r[i]
    III External Libraries
                                            10
    ► Go SDK
                                            11
                                                        return string(r)
    ▶ ☐ GOPATH <GolangTraining>
                                            12
                                                  ∮/∗
                                            13
                                            14
                                                   ao build
                                            15
                                                    won't produce an output file.
                                            16
                                            17
                                                   go install
                                            18
                                                    will place the package inside the pkg directory of the workspace.
                                            19
     stringutil $ go build
     stringutil $
```

```
reverse.go - GolangTraining - [~/Documents/go/src/github.com/goestoeleven/GolangTraining]
GolangTraining > 02_library > stringutil > iii reverse.go
  Project
                                reverse.go ×
1: Project
    GolangTraining (~/Documents/go/src/github.co
                                                   package stringutil
    ▼ □ 01 helloWorld
WS
         firstFile.go
                                                 b// Package stringutil contains utility functions for working with strings.
    ▼ 🗖 02 library
                                                  \delta// Reverse returns its argument string reversed rune—wise left to right.
▶ 🖿 helloWorld
      ▼ 🗖 stringutil
                                                 dunc Reverse(s string) string {
           reverse.go
                                                       r := []rune(s)
      • .gitignore
                                                       for i, j := 0, len(r)-1; i < len(r)/2; i, j = i+1, j-1 {
      README.md
                                                            r[i], r[j] = r[j], r[i]
    III External Libraries
                                            10
    ▶ Go SDK
                                                       return string(r)
                                            11
    ► GOPATH <GolangTraining>
                                            12
                                            13
                                                 =/*
                                            14
                                                  ao build
                                            15
                                                    won't produce an output file.
                                            16
                                            17
                                                   ao install
                                                    will place the package inside the pkg directory of the workspace.
                                            18
                                            19
  Te minal
     stringutil $ go build
     stringutil $ go install
     stringutil $
```

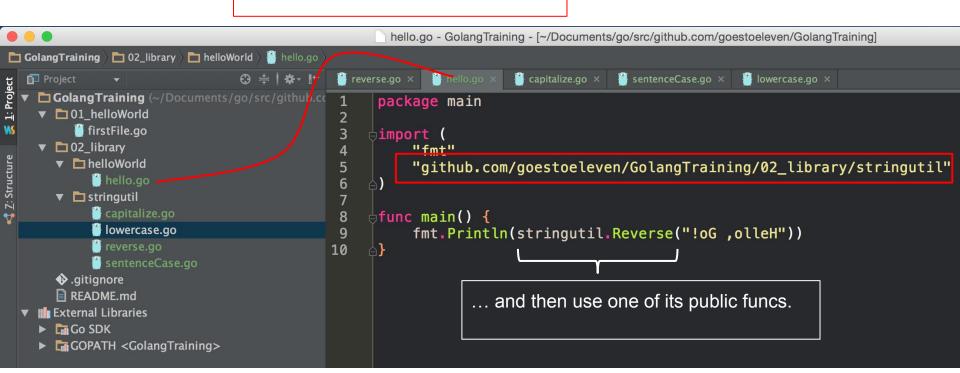


import

Notice how we import a package ...



Notice how we import a package ...



Aliasing Imports

```
import (
    "math/rand"
    crand "crypto/rand"
    "net/mail"
    aemail "appengine/mail"
)
```

just for fun



Review

- go build
 - builds go code; if code is package main, it creates a binary executable and drops it in the package main's folder; if code is just a package, it builds it then throws away the binary.
- go install
 - builds and installs go code; if code is package main, it creates a binary executable and drops it in the workspace's bin folder; if code is a package, it builds it then drops it in the pkg folder (a file with a .a extension)
- import
 - import path is everything after the "src" folder in your workspace
 - use the last folder in the import path to reference the package in your code
 - you can alias packages in your imports

Review Questions

import

- Search for uuid at godoc.org
- use go get to get the code for nu7hatch/gouuid
- open up finder
- locate this code
 - take a screenshot of this
- Create a file that imports this code
- alias the package as just uuid
 - take a screenshot of this