

(C) scottmotte



Go is hawt

Installation

http://code.google.com/p/go/downloads/list?q=OpSys-OSX +Type-Installer

```
// hello.go
package main
import "fmt"

func main() {
   fmt.Printf("hello, world\n")
}
```

Step 3

go run hello.go

That's it!

Environment

Step I

mkdir -p ~/go/bin mkdir -p ~/go/pkg mkdir -p ~/go/src

export GOPATH=\$HOME/go

add this to your .bashrc, .profile, or .vimrc

mkdir -p \$GOPATH/src/github.com/your_username

cd \$GOPATH/src/github.com/ your_username mkdir hello-go cd hello-go vim hello-go.go

```
Step 5
```

```
// hello.go
package main
import "fmt"

func main() {
   fmt.Printf("hello, world\n")
}
```

go install github.com/ your_username/hello-go

That installs the program as a binary to \$GOPATH/bin/hello-go.

\$GOPATH/bin/hello-go

Optionally, add \$GOPATH/bin to your PATH. Then you could just run: hello-go

Enjoy. Start writing Go.

Deploying

https://github.com/ scottmotte/heroku-gohello

git clone https://github.com/scottmotte/heroku-go-hello.git cd heroku-go-hello heroku create -b https://github.com/kr/heroku-buildpack-go.git git push heroku master

Iterate and build

```
package main
import "fmt"
func main() {
 var a string = "initial"
 fmt.Println(a)
 var b, c int = 1, 2
 fmt.Println(b, c)
 var e int
 fmt.Println(e)
 f := "short"
 fmt.Println(f)
```

```
package main
import "fmt"
func main() {
  fmt.Println("go" + "lang")
  fmt.Println("I+I=", I+I)
  fmt.Println(true && false)
  fmt.Println(true || false)
}
```

```
package main
import "fmt"
func main() {
 var array [5]int
 fmt.Println(array)
 array[4] = 44
 fmt.Println(array)
 fmt.Println(array[4])
 b := [5]int{1,2,3,4,5}
 fmt.Println(b)
 twoD := [2][3]int\{\{1,2,3\},\{4,5,6\}\}
 fmt.Println(twoD)
```

```
package main
import "fmt"
func main() {
  slice := []string{"dude", "ted", "bill"}
  fmt.Println(slice)

  slice[0] = "newdude"
  fmt.Println(slice)
}
```

```
package main
import "fmt"
func main() {
 a := []string{"I", "2"}
 fmt.Println(a)
 // make(map[key_type]value_type)
 m := map[int]string{I: "one", 2: "two"}
 fmt.Println(m)
```

```
package main
import "fmt"
func main() {
 i := |
 for i<=3 {
   fmt.Println(i)
   i = i + 1
 for j := 5; j <= 12; j++ \{
   fmt.Println(j)
```

```
...
  for {
    fmt.Println("dude")
    if i >= 100 {
       break
    }
    i = i + 1
  }
}
```

```
package main
import "fmt"
//funcs
func plus(a int, b int) int {
 return a + b
//multiple return values
                                      func main() {
func vals() (int, int) {
                                       result := plus(9,3)
 return 88, 77
                                       fmt.Println(result)
                                       a, b := vals()
                                       fmt.Println(a)
                                       fmt.Println(b)
```

Resources

- http://golang.org
- https://github.com/scottmotte/heroku-gohello
- http://github.com/scottmotte/go-byexample

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