
GoDDD
Gopher © Ashley McNamara

Antti Kupila
@akupila

GoFmt

Tests

GoDoc

Gopher © Marcus Olsson

```
package name

import (
     "unicode"
)

func FormatName(s string) string {
     first := rune(s[0])
     remain := s[1:]
     return string(unicode.ToUpper(first)) + remain
}
```

```
package name

import "testing"

func TestFormatName(t *testing.T) {
     tests := []struct {
          input string
          want  string
     }{
          {"antti", "Antti"},
     }
     for _, tt := range tests {
          t.Run(tt.input, func(t *testing.T) {
               got := FormatName(tt.input)
               if got != tt.want {
                    t.Errorf("FormatName() got = %q, want = %q", got, tt.want)
               }
          })
     }
}
```

```
› github.com/akupila/goddd go test ./name
ok      github.com/akupila/goddd/name   0.001s
```

```
package name

import "testing"

func TestFormatName(t *testing.T) {
     tests := []struct {
          input string
          want  string
     }{
          {"antti", "Antti"},
          {"antti kupila", "Antti Kupila"},
          {"ANTTI", "Antti"},
     }
     for _, tt := range tests {
          t.Run(tt.input, func(t *testing.T) {
               got := FormatName(tt.input)
               if got != tt.want {
                    t.Errorf("FormatName() got = %q, want = %q", got, tt.want)
               }
          })
     }
}
```

```
› github.com/akupila/goddd go test ./name
--- FAIL: TestFormatName (0.00s)
    --- FAIL: TestFormatName/ANTTI (0.00s)
        name_test.go:20: FormatName() got = "ANTTI", want = "Antti"
    --- FAIL: TestFormatName/antti_kupila (0.00s)
        name_test.go:20: FormatName() got = "Antti kupila", want = "Antti Kupila"
FAIL
FAIL    github.com/akupila/goddd/name   0.001s
```

```
package name

import (
     "strings"
     "unicode"
)

func FormatName(s string) string {
     s = strings.ToLower(s)
     parts := strings.Split(s, " ")
     for i, part := range parts {
          first := rune(part[0])
          remain := part[1:]
          parts[i] = string(unicode.ToUpper(first)) + remain
     }
     return strings.Join(parts, " ")
}
```

```
› github.com/akupila/goddd go test ./name
ok      github.com/akupila/goddd/name   0.001s
```

```
› github.com/akupila/goddd golint ./name
name/name.go:5:1: exported function FormatName should have comment or be unexported
```

```
package name

import (
     "strings"
     "unicode"
)

// returns the user's name so it is properly capitalized
func FormatName(s string) string {
     s = strings.ToLower(s)
     parts := strings.Split(s, " ")
     for i, part := range parts {
          first := rune(part[0])
          remain := part[1:]
          parts[i] = string(unicode.ToUpper(first)) + remain
     }
     return strings.Join(parts, " ")
}
```

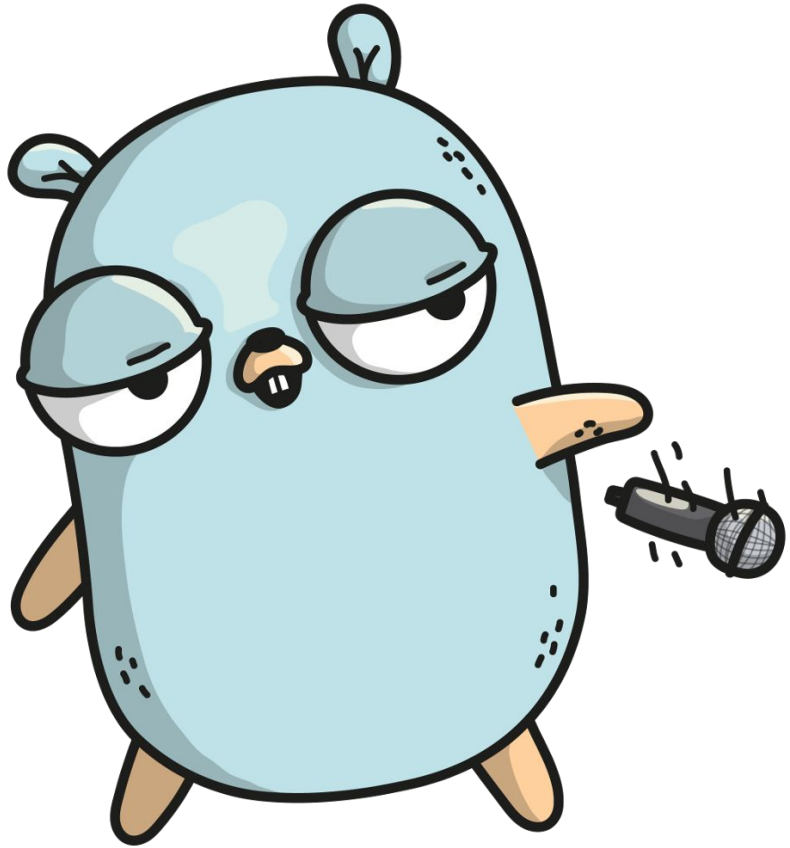
```
› github.com/akupila/goddd golint ./name
name/name.go:8:1: comment on exported function FormatName should be of the form "FormatName ..."
```

```
package name

import (
     "strings"
     "unicode"
)

// FormatName ...
func FormatName(s string) string {
     s = strings.ToLower(s)
     parts := strings.Split(s, " ")
     for i, part := range parts {
          first := rune(part[0])
          remain := part[1:]
          parts[i] = string(unicode.ToUpper(first)) + remain
     }
     return strings.Join(parts, " ")
}
```

```
› github.com/akupila/goddd golint ./name
› github.com/akupila/goddd echo $?
0
```



Gopher © Ashley McNamara

```
$ godoc -h :6060
```

Package name

```
import "github.com/akupila/goddd/name"
```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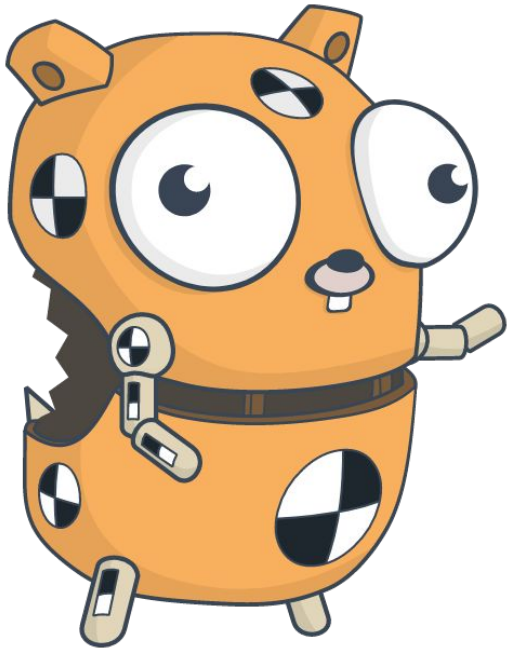
Package files

name.go

func **FormatName**

```
func FormatName(s string) string
```

FormatName ...



Gopher © Egon Elbre

"~~Good~~ Trivial code is self documenting

-- Unknown

Gopher © Egon Elbre

GoDDD

GoDoc Driven Development

> Don’t document the program;
> Program the document

-- Unknown

GoDoc

- Generate docs from your code
- Special formatting
- Looks good in html and in code
- Examples are executed as tests
- godoc.org automatically generates docs

https://godoc.org/github.com/natefinch/godocgo

https://godoc.org/github.com/fluhus/godoc-tricks

```
package name

// FormatName capitalizes a person's name so it can be correctly printed.
func FormatName(s string) string {
     return “not implemented"
}
```

```
package name

import (
     "fmt"
)

func ExampleFormatName() {
     input := "antti"
     got := FormatName(input)
     fmt.Println(got)
     // Output: Antti
}
```

Antti Kupila
@akupila

#golang pro tip: put your examples in a _test package so the code contains the package name and becomes copy-pasteable (as it's likely used from another package)

11:28 AM · May 16, 2019 · Twitter Web Client

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```
package name

import (
     "fmt"

     "github.com/akupila/goddd/name"
)

func ExampleFormatName() {
     input := "antti"
     got := name.FormatName(input)
     fmt.Println(got)
     // Output: Antti
}
```

```
package name_test

import (
     "fmt"

     "github.com/akupila/goddd/name"
)

func ExampleFormat() {
     input := "antti"
     got := name.Format(input)
     fmt.Println(got)
     // Output: Antti
}
```

```
package name_test

import (
	"fmt"

	"github.com/akupila/goddd/name"
)

func ExampleFormat() {
	input := "antti"
	got := name.Format(input)
	fmt.Println(got)
	// Output: Antti
}

func ExampleFormat_familyName() {
	input := "antti kupila"
	got := name.Format(input)
	fmt.Println(got)
	// Output: Antti Kupila
}
```

Package name

```
import "github.com/akupila/goddd/name"
```


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Package files

func **Format**

```
func Format(s string) string
```

Format formats a person's name so it can be correctly printed.

▾ Example

Code:

```
input := "antti"
got := name.Format(input)
fmt.Println(got)
```

Output:

```
Antti
```

▹ Example (FamilyName)

Jaana B. Dogan
@rakyll

A good API is not just easy to use but also hard to misuse.

6:43 PM · Oct 16, 2017 · Twitter Web Client

382 Retweets **884** Likes

```
package name

// Format formats a person's name so it can be correctly printed.
//
// The returned value will always have the first letter capitalized, while the
// remaining letters are lowercase, as determined by the unicode package.
//
//   alice -> Alice
//
// The input may in any combination of uppercase/lowercase characters.
// Characters that are uppercase may be converted to lowercase if needed.
//
// In case the name contains hyphenated names, they are both capitalized.
func Format(s string) string {
     return "not implemented"
}
```

Package name

```
import "github.com/akupila/goddd/name"
```


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func **Format**

```
func Format(s string) string
```

Format formats a person's name so it can be correctly printed.

The returned value will always have the first letter capitalized, while the remaining letters are lowercase, as determined by the unicode package.

```
alice -> Alice
```

The input may in any combination of uppercase/lowercase characters. Characters that are uppercase may be converted to lowercase if needed.

In case the name contains hyphenated names, they are both capitalized.

▹ Example

▹ Example (FamilyName)

```
// Package name provides utilities for working with names of people.
package name
```

Package name

```
import "github.com/akupila/goddd/name"
```


Overview ▾

Package name provides utilities for working with names of people.

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Package files

doc.go name.go

func **Format**

```
func Format(s string) string
```

Format formats a person's name so it can be correctly printed.

The returned value will always have the first letter capitalized, while the remaining letters are lowercase, as determined by the unicode package.

```
alice -> Alice
```

The input may in any combination of uppercase/lowercase characters. Characters that are uppercase may be converted to lowercase if needed.

In case the name contains hyphenated names, they are both capitalized.

▹ Example

▹ Example (FamilyName)

```
package name_test

import (
	"fmt"
	"testing"

	"github.com/akupila/goddd/name"
)

func TestFormat(t *testing.T) {
	tests := []struct{
		input string
		want  string
	}{
		{"antti", "Antti"},
		{"ANTTI", "Antti"},
		{"antti kupila", "Antti Kupila"},
		{"josé-maria gonzales", "José-Maria Gonzales"},
	}
	for _, tt := range tests {
		t.Run(tt.input, func(t *testing.T) {
			got := name.Format(tt.input)
			if got != tt.want {
				t.Errorf("FormatName() got = %q, want = %q", got, tt.want)
			}
		})
	}
}
```

```
package name

// Format formats a person's name so it can be correctly printed.
//
// The returned value will always have the first letter capitalized, while the
// remaining letters are lowercase, as determined by the unicode package.
//
//   alice -> Alice
//
// The input may in any combination of uppercase/lowercase characters.
// Characters that are uppercase may be converted to lowercase if needed.
//
// In case the name contains hyphenated names, they are both capitalized.
func Format(s string) string {
     return "not implemented"
}
```

func **Title**

```
func Title(s string) string
```

Title returns a copy of the string s with all Unicode letters that begin words mapped to their title case.

BUG(rsc): The rule Title uses for word boundaries does not handle Unicode punctuation properly.

▾ Example

```
package main

import (
        "fmt"
        "strings"
)

func main() {
        fmt.Println(strings.Title("her royal highness"))
}
```

```
Her Royal Highness

Program exited.
```

Run Format Share

```
package name

// Format formats a person's name so it can be correctly printed.
//
// The returned value will always have the first letter capitalized, while the
// remaining letters are lowercase, as determined by the unicode package.
//
//   alice -> Alice
//
// The input may in any combination of uppercase/lowercase characters.
// Characters that are uppercase may be converted to lowercase if needed.
//
// In case the name contains hyphenated names, they are both capitalized.
func Format(s string) string {
     return strings.Title(strings.ToLower(s))
}
```

```
› github.com/akupila/goddd go test ./name
ok      github.com/akupila/goddd/name   0.001s
```

Work smarter
Not harder

Gopher © Ashley McNamara

Brad Fitzpatrick @bradfitz · Sep 6, 2018

After thinking about it on & off for months, I've started sketching out a new #golang HTTP client package during Dylan naps.

I'm much more excited about it, now that I can see it in godoc, even if the implementation is largely panic("TODO").

Doc later. On vacation. Fun only. :)

8 5 166

Antti Kupila @akupila · Sep 8, 2018

Godoc driven development 👌

1 1

Brad Fitzpatrick
@bradfitz

Replying to @akupila

Always!

9:39 PM · Sep 8, 2018 from Wicko, Polska · Twitter for Android

```
$ cloc src --include-ext=go
    5661 text files.
    5525 unique files.
    1540 files ignored.

3 errors:
Line count, exceeded timeout:  src/vendor/golang.org/x/net/idna/tables10.0.0.go
Line count, exceeded timeout:  src/vendor/golang.org/x/net/idna/tables11.0.0.go
Line count, exceeded timeout:  src/vendor/golang.org/x/net/idna/tables9.0.0.go

github.com/AlDanial/cloc v 1.82  T=21.35 s (193.3 files/s, 86838.4 lines/s)
-------------------------------------------------------------------------------
Language                     files          blank        comment           code
-------------------------------------------------------------------------------
Go                            4127         138764         221333        1493796
-------------------------------------------------------------------------------
SUM:                          4127         138764         221333        1493796
-------------------------------------------------------------------------------
```


That's all Folks!

type **Speaker**

```
type Speaker struct {
    Name string
}
```

func (Speaker) QA

```
func (s Speaker) QA(questions []Question) []Answer
```

QA starts Questions & Answers for the given speaker. The speaker will attempt to answer any questions.

Speaker panics if answer to question is not known.