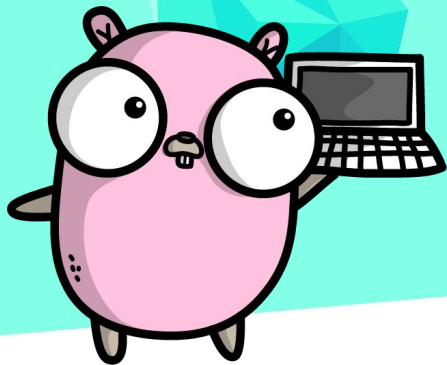The simple things:

time.Parse/Format

Erik Dubbelboer

All in common

```
strptime("2024-04-09", "%Y-%m-%d", &tm);

NaiveDate::parse_from_str("2024-04-09", "%Y-%m-%d")

datetime.strptime("2024-04-09", "%Y-%m-%d")

DateTime::createFromFormat("Y-m-d", "2024-04-09");

Date.strptime("2024-04-09", "%Y-%m-%d")
```

All in common

```
strptime("2024-04-09", "%Y-%m-%d", &tm);

NaiveDate::parse_from_str("2024-04-09", "%Y-%m-%d")

datetime.strptime("2024-04-09", "%Y-%m-%d")

DateTime::createFromFormat("Y-m-d", "2024-04-09");

Date.strptime("2024-04-09", "%Y-%m-%d")
```

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Go is different

```
time.Parse("2006-01-02", "2024-04-09")
```

Go is different

```
                   YYYY-MM-DD
time.Parse("2006-01-02", "2024-04-09")
```
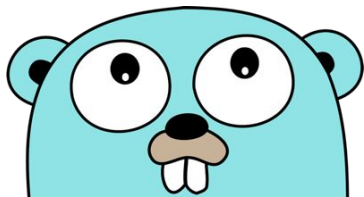
Why?

- Intuitiveness

```
Jan 2 15:04:05 2006 MST
 1   2   3  4  5    6   -7
```

- Self-descriptive, less errors

```
%M  vs  %m
```

Predefined

```
const (
    Layout      = "01/02 03:04:05PM '06 -0700" // The reference time, in numerical order.
    ANSIC       = "Mon Jan _2 15:04:05 2006"
    UnixDate    = "Mon Jan _2 15:04:05 MST 2006"
    RubyDate    = "Mon Jan 02 15:04:05 -0700 2006"
    RFC822      = "02 Jan 06 15:04 MST"
    RFC822Z     = "02 Jan 06 15:04 -0700" // RFC822 with numeric zone
    RFC850      = "Monday, 02-Jan-06 15:04:05 MST"
    RFC1123     = "Mon, 02 Jan 2006 15:04:05 MST"
    RFC1123Z    = "Mon, 02 Jan 2006 15:04:05 -0700" // RFC1123 with numeric zone
    RFC3339     = "2006-01-02T15:04:05Z07:00"
    RFC3339Nano = "2006-01-02T15:04:05.999999999Z07:00"
    Kitchen     = "3:04PM"
    …
)
```

Formatting

```go
t := time.Date(2024, 4, 9, 18, 30, 0, 0, time.UTC)

fmt.Println(t.Format(time.RFC822)) // "02 Jan 06 15:04 MST"

// prints: 09 Apr 24 18:30 UTC
```

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Quiz time

What does this code print?

```
t, _ := time.Parse("01-02-2006", "09-04-2024")
fmt.Println(t.Format("Jan 2006"))
```

1) Apr 2024
2) Sep 2024

Quiz time

What does this code print?

```
t, _ := time.Parse("01-02-2006", "09-04-2024")
fmt.Println(t.Format("Jan 2006"))
```

1) Apr 2024
2) **Sep 2024**

Predefined

```
t, _ := time.Parse("2006-02-01", "2024-04-09")

./main.go:11:22: 2006-02-01 should be 2006-01-02
```

Questions?

https://jobs.poki.com