

<https://godoc.org/github.com/gogf/gf/os/gtime>

1. TimestampTimestampMilliTimestampMicroTimestampNano
2. DateDatetime
3. SetTimeZone
- 4.

## 1

```
package main

import (
    "fmt"
    "github.com/gogf/gf/os/gtime"
)

func main() {
    fmt.Println("Date          :", gtime.Date())
    fmt.Println("Datetime       :", gtime.Datetime())
    fmt.Println("Second          :", gtime.Timestamp())
    fmt.Println("Millisecond:", gtime.TimestampMilli())
    fmt.Println("Microsecond:", gtime.TimestampMicro())
    fmt.Println("Nanosecond  :", gtime.TimestampNano())
}
```

```
Date          : 2018-07-22
Datetime       : 2018-07-22 11:52:22
Second        : 1532231542
Millisecond: 1532231542688
Microsecond: 1532231542688688
Nanosecond  : 1532231542688690259
```

## 2



timeimport

```
package main

import (
    "fmt"
    "github.com/gogf/gf/os/gtime"
    "time"
)

func main() {
    //
    fmt.Println(time.Now().String())
    //
    err := gtime.SetTimeZone("Asia/Tokyo")
    if err != nil {
        panic(err)
    }
    // gtime
    fmt.Println(gtime.Now().String())
    //
    fmt.Println(time.Now().String())
}
```

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```

2018-11-21 22:50:56.723429 +0800 CST m=+0.000649366
2018-11-21 23:50:56
2018-11-21 23:50:56.723832 +0900 JST m=+0.001052780

```

### 3StrToTime

```
NewStrToTimegtime.Time
```

```

2017-12-14 04:51:34 +0805 LMT
2017-12-14 04:51:34 +0805 LMT
2006-01-02T15:04:05Z07:00
2014-01-17T01:19:15+08:00
2018-02-09T20:46:17.897Z
2018-02-09 20:46:17.897
2018-02-09T20:46:17Z
2018-02-09 20:46:17
2018/10/31 - 16:38:46
2018-02-09
2018.02.09

```

```

01-Nov-2018 11:50:28
01/Nov/2018 11:50:28
01.Nov.2018 11:50:28
01.Nov.2018:11:50:28
'_'/'_'.'

```

```
package main
```

```

import (
    "fmt"
    "github.com/gogf/gf/os/glog"
    "github.com/gogf/gf/os/gtime"
    "time"
)

func main() {
    array := []string{
        "2017-12-14 04:51:34 +0805 LMT",
        "2006-01-02T15:04:05Z07:00",
        "2014-01-17T01:19:15+08:00",
        "2018-02-09T20:46:17.897Z",
        "2018-02-09 20:46:17.897",
        "2018-02-09T20:46:17Z",
        "2018-02-09 20:46:17",
        "2018.02.09 20:46:17",
        "2018-02-09",
        "2017/12/14 04:51:34 +0805 LMT",
        "2018/02/09 12:00:15",
        "01/Nov/2018:13:28:13 +0800",
        "01-Nov-2018 11:50:28 +0805 LMT",
        "01-Nov-2018T15:04:05Z07:00",
        "01-Nov-2018T01:19:15+08:00",
        "01-Nov-2018 11:50:28 +0805 LMT",
        "01/Nov/2018 11:50:28",
        "01/Nov/2018:11:50:28",
        "01.Nov.2018:11:50:28",
        "01/Nov/2018",
    }
    cstLocal, _ := time.LoadLocation("Asia/Shanghai")
    for _, s := range array {
        if t, err := gtime.StrToTime(s); err == nil {
            fmt.Println(s)
            fmt.Println(t.UTC().String())
            fmt.Println(t.In(cstLocal).String())
        } else {
            glog.Error(s, err)
        }
        fmt.Println()
    }
}

```

```
StrToTimegtime.TimeUTCST()
```

2017-12-14 04:51:34 +0805 LMT  
2017-12-13 20:46:34  
2017-12-14 04:46:34 +0800 CST

2006-01-02T15:04:05Z07:00  
2006-01-02 22:04:05  
2006-01-03 06:04:05 +0800 CST

2014-01-17T01:19:15+08:00  
2014-01-16 17:19:15  
2014-01-17 01:19:15 +0800 CST

2018-02-09T20:46:17.897Z  
2018-02-09 20:46:17  
2018-02-10 04:46:17.897 +0800 CST

2018-02-09 20:46:17.897  
2018-02-09 12:46:17  
2018-02-09 20:46:17.897 +0800 CST

2018-02-09T20:46:17Z  
2018-02-09 20:46:17  
2018-02-10 04:46:17 +0800 CST

2018-02-09 20:46:17  
2018-02-09 12:46:17  
2018-02-09 20:46:17 +0800 CST

2018.02.09 20:46:17  
2018-02-09 12:46:17  
2018-02-09 20:46:17 +0800 CST

2018-02-09  
2018-02-08 16:00:00  
2018-02-09 00:00:00 +0800 CST

2017/12/14 04:51:34 +0805 LMT  
2017-12-13 20:46:34  
2017-12-14 04:46:34 +0800 CST

2018/02/09 12:00:15  
2018-02-09 04:00:15  
2018-02-09 12:00:15 +0800 CST

01/Nov/2018:13:28:13 +0800  
2018-11-01 05:28:13  
2018-11-01 13:28:13 +0800 CST

01-Nov-2018 11:50:28 +0805 LMT  
2018-11-01 03:45:28  
2018-11-01 11:45:28 +0800 CST

01-Nov-2018T15:04:05Z07:00  
2018-11-01 22:04:05  
2018-11-02 06:04:05 +0800 CST

01-Nov-2018T01:19:15+08:00  
2018-10-31 17:19:15  
2018-11-01 01:19:15 +0800 CST

01-Nov-2018 11:50:28 +0805 LMT  
2018-11-01 03:45:28  
2018-11-01 11:45:28 +0800 CST

01/Nov/2018 11:50:28  
2018-11-01 03:50:28  
2018-11-01 11:50:28 +0800 CST

01/Nov/2018:11:50:28  
2018-11-01 03:50:28  
2018-11-01 11:50:28 +0800 CST

01.Nov.2018:11:50:28  
2018-11-01 03:50:28  
2018-11-01 11:50:28 +0800 CST

01/Nov/2018  
2018-10-31 16:00:00  
2018-11-01 00:00:00 +0800 CST