

-Converter

v2.6.2 ConverterConverter

:

```
func(T1) (T2, error)
```

T1 T2

 (T1)

:

```
// RegisterConverter to register custom converter.
// It must be registered before you use this custom converting feature.
// It is suggested to do it in boot procedure of the process.
//
// Note:
// 1. The parameter `fn` must be defined as pattern `func(T1) (T2, error)`
//
//    It will convert type `T1` to type `T2`.
// 2. The `T1` should not be type of pointer, but the `T2` should be type
// of pointer.
func RegisterConverter(fn interface{}) (err error)
```

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```

package main

import (
    "fmt"

    "github.com/gogf/gf/v2/util/gconv"
)

type Src struct {
    A int
}

type Dst struct {
    B int
}

type SrcWrap struct {
    Value Src
}

type DstWrap struct {
    Value Dst
}

func SrcToDstConverter(src Src) (dst *Dst, err error) {
    return &Dst{B: src.A}, nil
}

// SrcToDstConverter is custom converting function for custom type.
func main() {
    // register custom converter function.
    err := gconv.RegisterConverter(SrcToDstConverter)
    if err != nil {
        panic(err)
    }

    // custom struct converting.
    var (
        src = Src{A: 1}
        dst *Dst
    )
    err = gconv.Scan(src, &dst)
    if err != nil {
        panic(err)
    }

    fmt.Println("src:", src)
    fmt.Println("dst:", dst)

    // custom struct attributes converting.
    var (
        srcWrap = SrcWrap{Src{A: 1}}
        dstWrap *DstWrap
    )
    err = gconv.Scan(srcWrap, &dstWrap)
    if err != nil {
        panic(err)
    }

    fmt.Println("srcWrap:", srcWrap)
    fmt.Println("dstWrap:", dstWrap)
}

```

:gconv.Scan

```
src: {1}
dst: &{1}
srcWrap: {{1}}
dstWrap: &{{1}}
```

gconv.Scangconv.ConvertWithRefer

```
package main

import (
    "fmt"

    "github.com/gogf/gf/v2/util/gconv"
)

type Src struct {
    A int
}

type Dst struct {
    B int
}

type SrcWrap struct {
    Value Src
}

type DstWrap struct {
    Value Dst
}

// SrcToDstConverter is custom converting function for custom type.
func SrcToDstConverter(src Src) (dst *Dst, err error) {
    return &Dst{B: src.A}, nil
}

func main() {
    // register custom converter function.
    err := gconv.RegisterConverter(SrcToDstConverter)
    if err != nil {
        panic(err)
    }

    // custom struct converting.
    var src = Src{A: 1}
    dst := gconv.ConvertWithRefer(src, Dst{})
    fmt.Println("src:", src)
    fmt.Println("dst:", dst)

    // custom struct attributes converting.
    var srcWrap = SrcWrap{Src{A: 1}}
    dstWrap := gconv.ConvertWithRefer(srcWrap, &DstWrap{})
    fmt.Println("srcWrap:", srcWrap)
    fmt.Println("dstWrap:", dstWrap)
}
```

Converterint, string

```

package main

import (
    "fmt"

    "github.com/gogf/gf/v2/os/gtime"
    "github.com/gogf/gf/v2/util/gconv"
)

type MyTime = *gtime.Time

type Src struct {
    A MyTime
}

type Dst struct {
    B string
}

type SrcWrap struct {
    Value Src
}

type DstWrap struct {
    Value Dst
}

// SrcToDstConverter is custom converting function for custom type.
func SrcToDstConverter(src Src) (dst *Dst, err error) {
    return &Dst{B: src.A.Format("Y-m-d")}, nil
}

// SrcToDstConverter is custom converting function for custom type.
func main() {
    // register custom converter function.
    err := gconv.RegisterConverter(SrcToDstConverter)
    if err != nil {
        panic(err)
    }

    // custom struct converting.
    var (
        src = Src{A: gtime.Now()}
        dst *Dst
    )
    err = gconv.Scan(src, &dst)
    if err != nil {
        panic(err)
    }

    fmt.Println("src:", src)
    fmt.Println("dst:", dst)

    // custom struct attributes converting.
    var (
        srcWrap = SrcWrap{Src{A: gtime.Now()}}
        dstWrap *DstWrap
    )
    err = gconv.Scan(srcWrap, &dstWrap)
    if err != nil {
        panic(err)
    }

    fmt.Println("srcWrap:", srcWrap)
    fmt.Println("dstWrap:", dstWrap)
}

```

type xxx = yyy*gtime.Time=int, string

```
src: {2024-01-22 21:45:28}
dst: &{2024-01-22}
srcWrap: {{2024-01-22 21:45:28}}
dstWrap: &{{2024-01-22}}
```

gconv.Scangconv.ConvertWithRefer

```
package main

import (
    "fmt"

    "github.com/gogf/gf/v2/os/gtime"
    "github.com/gogf/gf/v2/util/gconv"
)

type MyTime = *gtime.Time

type Src struct {
    A MyTime
}

type Dst struct {
    B string
}

type SrcWrap struct {
    Value Src
}

type DstWrap struct {
    Value Dst
}

// SrcToDstConverter is custom converting function for custom type.
func SrcToDstConverter(src Src) (dst *Dst, err error) {
    return &Dst{B: src.A.Format("Y-m-d")}, nil
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func main() {
    // register custom converter function.
    err := gconv.RegisterConverter(SrcToDstConverter)
    if err != nil {
        panic(err)
    }

    // custom struct converting.
    var src = Src{A: gtime.Now()}
    dst := gconv.ConvertWithRefer(src, &Dst{})
    fmt.Println("src:", src)
    fmt.Println("dst:", dst)

    // custom struct attributes converting.
    var srcWrap = SrcWrap{Src{A: gtime.Now()}}
    dstWrap := gconv.ConvertWithRefer(srcWrap, &DstWrap{})
    fmt.Println("srcWrap:", srcWrap)
    fmt.Println("dstWrap:", dstWrap)
}
```