

errorerrorNew/NewfWrap/Wrapf

```
package main

import (
    "fmt"
    "github.com/gogf/gf/v2/errors/gerror"
)

func OpenFile() error {
    return gerror.New("permission denied")
}

func OpenConfig() error {
    return gerror.Wrap(OpenFile(), "configuration file opening failed")
}

func ReadConfig() error {
    return gerror.Wrap(OpenConfig(), "reading configuration failed")
}

func main() {
    fmt.Printf("%+v", ReadConfig())
}

// Output:
// reading configuration failed: configuration file opening failed:
// permission denied
// 1. reading configuration failed
//    1). main.ReadConfig
//       /Users/john/Workspace/Go/GOPATH/src/github.com/gogf/gf/v2/geg
// errors/gerror/gerror2.go:18
//    2). main.main
//       /Users/john/Workspace/Go/GOPATH/src/github.com/gogf/gf/v2/geg
// errors/gerror/gerror2.go:25
// 2. configuration file opening failed
//    1). main.OpenConfig
//       /Users/john/Workspace/Go/GOPATH/src/github.com/gogf/gf/v2/geg
// errors/gerror/gerror2.go:14
//    2). main.ReadConfig
//       /Users/john/Workspace/Go/GOPATH/src/github.com/gogf/gf/v2/geg
// errors/gerror/gerror2.go:18
//    3). main.main
//       /Users/john/Workspace/Go/GOPATH/src/github.com/gogf/gf/v2/geg
// errors/gerror/gerror2.go:25
// 3. permission denied
//    1). main.OpenFile
//       /Users/john/Workspace/Go/GOPATH/src/github.com/gogf/gf/v2/geg
// errors/gerror/gerror2.go:10
//    2). main.OpenConfig
//       /Users/john/Workspace/Go/GOPATH/src/github.com/gogf/gf/v2/geg
// errors/gerror/gerror2.go:14
//    3). main.ReadConfig
//       /Users/john/Workspace/Go/GOPATH/src/github.com/gogf/gf/v2/geg
// errors/gerror/gerror2.go:18
//    4). main.main
//       /Users/john/Workspace/Go/GOPATH/src/github.com/gogf/gf/v2/geg
// errors/gerror/gerror2.go:25
```

Wrap

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HasStack

- HasStackerror
-

```
HasStack(err error) bool
```

-

```
func ExampleHasStack() {
    err1 := errors.New("sql error")
    err2 := gerror.New("write error")
    fmt.Println(gerror.HasStack(err1))
    fmt.Println(gerror.HasStack(err2))

    // Output:
    // false
    // true
}
```

Stack

- Stackerror errorerrorerror error
-

```
Stack(err error) string
```

-

```
func ExampleStack() {
    var err error
    err = errors.New("sql error")
    err = gerror.Wrap(err, "adding failed")
    err = gerror.Wrap(err, "api calling failed")
    fmt.Println(gerror.Stack(err))

    // Output:
    // 1. api calling failed
    //    1). main.main
    //        /Users/john/Workspace/Go/GOPATH/src/github.com
    //gogf/gf/.example/other/test.go:14
    // 2. adding failed
    //    1). main.main
    //        /Users/john/Workspace/Go/GOPATH/src/github.com
    //gogf/gf/.example/other/test.go:13
    // 3. sql error
}
```

Current error

- Currenterror
-

```
Current(err error) error
```

-

```
func ExampleCurrent() {
    var err error
    err = errors.New("sql error")
    err = gerror.Wrap(err, "adding failed")
    err = gerror.Wrap(err, "api calling failed")
    fmt.Println(err)
    fmt.Println(gerror.Current(err))

    // Output:
    // api calling failed: adding failed: sql error
    // api calling failed
}
```

Next/Unwrap error

- Next/UnwraperrornilUnwrapNextGolang v1.17
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```
Next(err error) error
```

- 1

```
func ExampleNext() {
    var err error
    err = errors.New("sql error")
    err = gerror.Wrap(err, "adding failed")
    err = gerror.Wrap(err, "api calling failed")

    fmt.Println(err)

    err = gerror.Next(err)
    fmt.Println(err)

    err = gerror.Next(err)
    fmt.Println(err)

    // Output:
    // api calling failed: adding failed: sql error
    // adding failed: sql error
    // sql error
}
```

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```
func IsGrpcErrorNotFound(err error) bool {
    if err != nil {
        for e := err; e != nil; e = gerror.Unwrap(e) {
            if s, ok := status.FromError(e); ok && s !=
            nil && s.Code() == codes.NotFound {
                return true
            }
        }
    }
    return false
}
```

Cause error

- Causeerror errorgerrorerror errorerror
-

```
Next(err error) error
```

-

```
package main

import (
    "fmt"
    "github.com/gogf/gf/v2/errors/gerror"
)

func OpenFile() error {
    return gerror.New("permission denied")
}

func OpenConfig() error {
    return gerror.Wrap(OpenFile(), "configuration file opening failed")
}

func ReadConfig() error {
    return gerror.Wrap(OpenConfig(), "reading configuration failed")
}

func main() {
    fmt.Println(gerror.Cause(ReadConfig()))
}

// Output:
// permission denied
```