
Welcome ⋮

An online API documentation with examples so you can start building web apps with Fiber right away!

Fiber is an Express inspired **web framework** built on top of Fasthttp, the **fastest** HTTP engine for Go. Designed to **ease** things up for **fast** development with **zero memory allocation** and **performance** in mind.

These docs are for **Fiber v2**, which was released on **September 15th, 2020**.

Installation

First of all, download and install Go. `1.14` or higher is required.

Installation is done using the `go get` command:

```
go get github.com/gofiber/fiber/v2
```

Zero Allocation

Some values returned from ***fiber.Ctx** are **not** immutable by default.

Because fiber is optimized for **high-performance**, values returned from **fiber.Ctx** are **not** immutable by default and **will** be re-used across requests. As a rule of thumb, you **must** only use context values within the handler, and you **must not** keep any references. As soon as you return from the handler, any values you have obtained from the context will be re-used in future requests and will change below your feet. Here is an example:

```
func handler(c *fiber.Ctx) error {
    // Variable is only valid within this handler
    result := c.Params("foo")

    // ...
}
```

If you need to persist such values outside the handler, make copies of their **underlying buffer** using the `copy` builtin. Here is an example for persisting a string:

```
func handler(c *fiber.Ctx) error {
    // Variable is only valid within this handler
    result := c.Params("foo")

    // Make a copy
    buffer := make([]byte, len(result))
    copy(buffer, result)
    resultCopy := string(buffer)
    // Variable is now valid forever

    // ...
}
```

We created a custom `CopyString` function that does the above and is available under `gofiber/utils`.

```
app.Get("/:foo", func(c *fiber.Ctx) error {
    // Variable is now immutable
    result := utils.CopyString(c.Params("foo"))

    // ...
})
```

Alternatively, you can also use the `Immutable` setting. It will make all values returned from the context immutable, allowing you to persist them anywhere. Of course, this comes at the cost of performance.

```
app := fiber.New(fiber.Config{
    Immutable: true,
})
```

For more information, please check [#426](#) and [#185](#).

Hello, World!

Embedded below is essentially the most straightforward **Fiber** app you can create:

```
package main

import "github.com/gofiber/fiber/v2"

func main() {
    app := fiber.New()
```

```

app.Get("/", func(c *fiber.Ctx) error {
    return c.SendString("Hello, World!")
})

app.Listen(":3000")
}

```

```
go run server.go
```

Browse to `http://localhost:3000` and you should see `Hello, World!` on the page.

Basic routing

Routing refers to determining how an application responds to a client request to a particular endpoint, which is a URI (or path) and a specific HTTP request method (`GET` , `PUT` , `POST` , etc.).

Each route can have **multiple handler functions** that are executed when the route is matched.

Route definition takes the following structures:

```

// Function signature
app.Method(path string, ...func(*fiber.Ctx) error)

```

- `app` is an instance of **Fiber**
- `Method` is an HTTP request method: `GET` , `PUT` , `POST` , etc.
- `path` is a virtual path on the server
- `func(*fiber.Ctx) error` is a callback function containing the Context executed when the route is matched

Simple route

```

// Respond with "Hello, World!" on root path, "/"
app.Get("/", func(c *fiber.Ctx) error {
    return c.SendString("Hello, World!")
})

```

Parameters

```
// GET http://localhost:8080/hello%20world
```

```
app.Get("/:value", func(c *fiber.Ctx) error {
    return c.SendString("value: " + c.Params("value"))
    // => Get request with value: hello world
})
```

Optional parameter

```
// GET http://localhost:3000/john

app.Get("/:name?", func(c *fiber.Ctx) error {
    if c.Params("name") != "" {
        return c.SendString("Hello " + c.Params("name"))
        // => Hello john
    }
    return c.SendString("Where is john?")
})
```

Wildcards

```
// GET http://localhost:3000/api/user/john

app.Get("/api/*", func(c *fiber.Ctx) error {
    return c.SendString("API path: " + c.Params("*"))
    // => API path: user/john
})
```

Static files

To serve static files such as **images**, **CSS**, and **JavaScript** files, replace your function handler with a file or directory string.

Function signature:

```
app.Static(prefix, root string, config ...Static)
```

Use the following code to serve files in a directory named `./public`:

```
app := fiber.New()
```

```
app.Static("/", "./public")
```

```
app.Listen(":3000")
```

Now, you can load the files that are in the `./public` directory:

```
http://localhost:8080/hello.html  
http://localhost:8080/js/jquery.js  
http://localhost:8080/css/style.css
```

Note

For more information on how to build APIs in Go with Fiber, please check out this excellent article on building an express-style API in Go with Fiber.

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Fiber



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