Working with Requests



Michael Van Sickle

@vansimke



Overview



Retrieving Single Values

- Route Parameters
- Query Parameters
- Form Fields

Retrieving Objects



```
Route /employees/:id/vacation

URL /employees/42/vacation

context.Param("id") == "42"

context.Param("foo") == ""
```

Retrieving Route Parameters



```
Route /employees/:id/vacation

URL /employees/42/vacation?type=Holiday

context.Query("type") == "Holiday"

context.Query("foo") == ""
```

Retrieving Query Parameters



```
Route /employees/:id/vacation
URL /employees/42/vacation?type=Holiday

context.DefaultQuery("type", "PTO") == "Holiday"
context.DefaultQuery("foo", "bar") == "bar"
```

Retrieving Query Parameters with Defaults



```
POST /employees/42/vacation/add

type=PTO&amount=8&startDate=12082016

context.PostForm("amount") == "8"

context.PostForm("foo") == ""
```

Retrieving Form Fields



POST /employees/42/vacation/add type=PTO&amount=8&startDate=12082016

```
context.DefaultPostForm("amount", "0") == "8"
context.DefaultPostForm("foo", "bar") == "bar"
```

Retrieving Form Fields with Defaults



Data Binding - Forms

```
POST /admin/employees/add
                                    type Employee struct {
                                        FirstName string
firstName=Tim&lastName=Smith
                                        LastName string
emp := Employee {
   FirstName: context.PostForm("firstName"),
    LastName: context.PostForm("lastName"),
```



Data Binding - Forms

```
POST /admin/employees/add
                                    type Employee struct {
                                        FirstName string `form:"firstName"`
                                        LastName string `form:"lastName"`
firstName=Tim&lastName=Smith
emp := Employee {
   FirstName: context.PostForm("firstName"),
    LastName: context.PostForm("lastName"),
```



Data Binding - Forms

var emp Employee
err := context.Bind(&emp)



Data Binding - JSON

```
type Employee struct {
    "firstName": "Tim",
                                        FirstName string `json:"firstName"`
    "lastName": "Smith"
                                        LastName string `json:"lastName"`
var emp Employee
dec := json.NewDecoder(context.Request)
err := dec.Decode(&emp)
```



Data Binding - JSON



BindWith(obj interface{}, b binding.Binding)

FormPost FormMultipart Form **Protocol Buffers JSON XML**

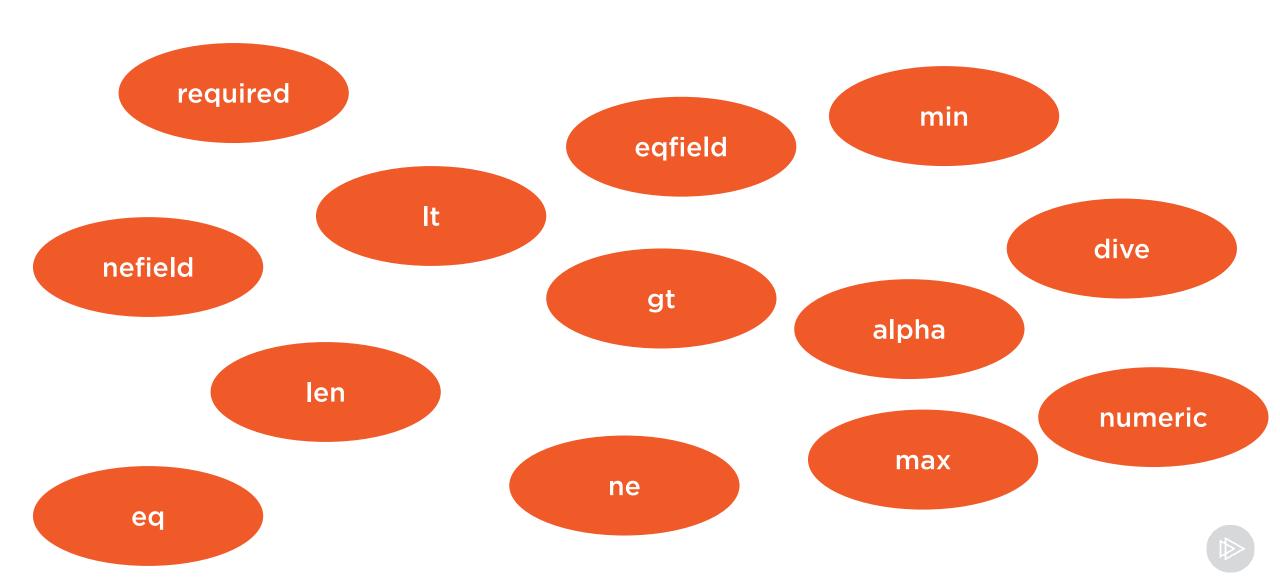


```
type Employee struct {
    FirstName string `json:"firstName"`
    LastName string `json:"lastName"`
}
```



```
type Employee struct {
    FirstName string `json:"firstName" binding:"required"`
    LastName string `json:"lastName" binding:"required"`
}
```





Summary



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- Route Parameters
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Retrieving Objects

