

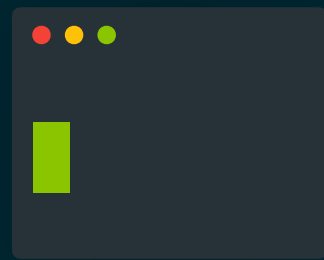


# HTTP Basics

# HTTP PROTOCOL



CLIENTS



## REQUEST

**PATCH /reminders/1 HTTP/1.1**  
**Content-Length: 22**  
**Host: localhost:8080**

`{"title": "some title"}`

## RESPONSE

**HTTP/1.1 200 OK**  
**Content-Length: 25**

`{"title": "updated title"}`



**SERVER**

# REQUEST/RESPONSE



## REQUEST LINE

**METHOD URL HTTP\_VERSION**

## STATUS LINE

**HTTP/1.X STATUS\_CODE REASON**

**REQUEST/STATUS LINE**

**LIST OF HEADERS**

**NEW LINE**

**REQUEST/RESPONSE BODY**

**NEW LINE**

# HTTP METHODS



**GET** - Get resource(s)



**POST** - Create resource



**PATCH** - Partial update



**PUT** - Full update



**DELETE** - Delete resource(s)

# HTTP STATUSES



**1.X.X** - Informational



**2.X.X** - Success



**3.X.X** - Redirection



**4.X.X** - Client Error



**5.X.X** - Server Error

# REST



**Verb**

**URI**

**Status**



{ } **GET** /reminders/1,2,3 - **200** [Body]

{ } **POST** /reminders - **201** [Optional Body]

{ } **PATCH** /reminders/1 - **200/204** [Optional Body]

{ } **DELETE** /reminders/1,2,3 - **204** [No Body]

# HTTP CLIENT



**Get**

**DEFAULT**



**Post**



**Do**

**CUSTOM**



# IO.READER/IO.WRITER



```
type Reader interface {  
    Read([]byte) (int, error)  
}
```

```
type Writer interface {  
    Write([]byte) (int, error)  
}
```



# JSON MARSHAL/UNMARSHAL



```
{"title": "Some title"}
```



```
type person struct {  
    Name string `json:"name"`  
}
```