

# request请求包数据格式

- 1、请求行：请求类型/请求资源路径、协议的版本和类型
- 2、请求头：一些键值对，浏览器与web服务器之间都可以发送
- 3、空行：请求头与请求体之间用一个空行隔开
- 4、请求体：要发送的数据（一般用post提交会使用）

```
GET /test.php HTTP/1.1
Host: localhost
sec-ch-ua: "Chromium";v="130", "Microsoft Edge";v="130", "Not?A_Brand";v="99"
sec-ch-ua-mobile: ?0
sec-ch-ua-platform: "Windows"
Upgrade-Insecure-Requests: 1
User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/130.0.0.0 Safari/537.36 Edg/130.0.0.0
Accept: text/html,application/xhtml+xml,application/xml;q=0.9,image/avif,image/webp,image/apng,*/*;q=0.8,application/signed-exchange;v=b3;q=0.7
Sec-Fetch-Site: none
Sec-Fetch-Mode: navigate
Sec-Fetch-User: ?1
Sec-Fetch-Dest: document
Accept-Encoding: gzip, deflate, br
Accept-Language: zh-CN,zh;q=0.9,en;q=0.8,en-GB;q=0.7,en-US;q=0.6
Connection: keep-alive
```

# response返回数据包格式

一个响应由四个部分组成：状态行、响应头标、空行、响应数据

- 1、状态行：协议版本、数字形式的状态码和状态描述、各元素之间以空格分隔
- 2、响应头标：包含服务类型、日期、长度、内容类型等
- 3、空行：响应头和响应体之间用空行隔开
- 4、响应数据：浏览器会将实体内容中的数据提取出来，生成相应页面

```
HTTP/1.1 200 OK
Date: Tue, 03 Dec 2024 07:36:27 GMT
Server: Apache/2.4.39 (Win64) OpenSSL/1.1.1b mod_fcgid/2.3.9a mod_log_rotate/1.02
X-Powered-By: PHP/7.3.4
Keep-Alive: timeout=5, max=100
Connection: Keep-Alive
Content-Type: text/html; charset=UTF-8
Content-Length: 50

No MD5 collision found for strings of length <= 3
```

# HTTP响应码

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1XX:信息，请求收到，继续处理

2XX:成功，行为被成功接受理解和采纳

3XX:重定向，为了完成请求，必须进一步执行操作

4XX:客户端错误

5XX: 服务器错误

200 存在文件

403存在文件夹

3XX 均可能存在

404不存在文件以及文件

500 均可能存在

## 实例演示

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本地演示

```
HTTP/1.1 404 Not Found
Date: Tue, 03 Dec 2024 07:31:45 GMT
Server: Apache/2.4.39 (win64) OpenSSL/1.1.1b mod_fcgid/2.3.9a mod_log_rotate/1.02
Last-Modified: Tue, 03 Sep 2019 07:11:42 GMT
ETag: "a63-591a0cce66780"
Accept-Ranges: bytes
Content-Length: 2659
Keep-Alive: timeout=5, max=100
Connection: Keep-Alive
Content-Type: text/html

<!DOCTYPE html>
<html lang="zh-CN">
<head>
  <meta charset="utf-8">
  <title>404 错误 - phpstudy
```

http状态码404 就是找不到该文件

```
HTTP/1.1 200 OK
Date: Tue, 03 Dec 2024 07:34:14 GMT
Server: Apache/2.4.39 (win64) OpenSSL/1.1.1b mod_fcgid/2.3.9a mod_log_rotate/1.02
X-Powered-By: PHP/7.3.4
Keep-Alive: timeout=5, max=100
Connection: Keep-Alive
Content-Type: text/html; charset=UTF-8
Content-Length: 334
```

状态码200 找到该文件