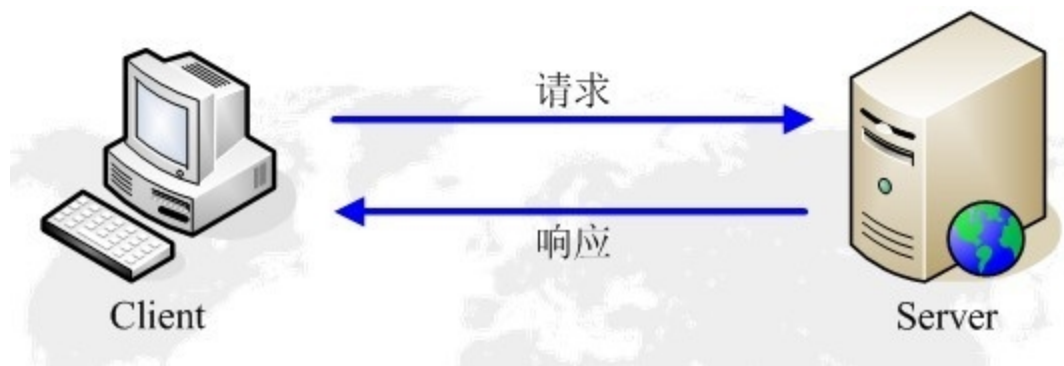


HTTP

The Hypertext Transfer Protocol (HTTP)  
is a stateless applicationlevel  
protocol  
for distributed, collaborative,  
hypertext information  
systems

# web



# Message Format

- HTTP-message = start-line  
                  \*( header-field  
                  CRLF )  
  
                  CRLF  
                  [ message-body  
                ]

(a) Request message

GET /test/hi-there.txt HTTP/1.0

Accept: text/\*

Accept-Language: en,fr

**Start line**

**Headers**

**Body**

(b) Response message

HTTP/1.0 200 OK

Content-type: text/plain

Content-length: 19

Hi! I'm a message!

# start-line

- Request-line =  
method SP request-target SP HTTP-version  
CRLF
- Status-line =  
HTTP-version SP status-code SP reason-  
phrase CRLF

# method

Method	Description	Message body?
GET	Get a document from the server.	No
HEAD	Get just the headers for a document from the server.	No
POST	Send data to the server for processing.	Yes
PUT	Store the body of the request on the server.	Yes
TRACE	Trace the message through proxy servers to the server.	No
OPTIONS	Determine what methods can operate on a server.	No
DELETE	Remove a document from the server.	No

# GET / POST

- 1. □□□□□
- 2. □□□□□□
- 3. □□□□



# Status code

3-digit integer code

1xx Informational

2xx Success

3xx Redirection

4xx Client Error

5xx Server Error

# Headers

- request-header

---

Host: www.baidu.com  
User-Agent: Mozilla/5.0 (Windows NT 6.0; rv:47.0) Gecko/20100101 Firefox/47.0  
Accept: text/html,application/xhtml+xml,application/xml;q=0.9,\*/\*;q=0.8  
Accept-Language: zh-CN,zh;q=0.8,en-US;q=0.5,en;q=0.3  
Accept-Encoding: gzip, deflate, br  
Cookie: BAIDUID=E29CEA509EE64DA88C5EB0C9F476610E:FG=1;  
BIDUPSID=E29CEA509EE64DA88C5EB0C9F476610E; PSTM=1454499523; ispeed\_lsm=8;  
BD\_UPN=13314252; H\_PS\_PSSID=20740\_1445\_18241\_17946\_19861\_12443\_20847\_20856\_20837\_20771;  
BD\_CK\_SAM=1; BD\_HOME=0  
Connection: keep-alive  
Cache-Control: max-age=0

# Headers

- Response-header

响应头：

```
BDPAGETYPE: 1
BDQID: 0xdc37e530005b325
BDUSERID: 0
Cache-Control: private
Connection: keep-alive
Content-Encoding: gzip
Content-Type: text/html; charset=utf-8
Cxy_all: baidu+e77dc1976813bdb583011aade1504449
Date: Sun, 14 Aug 2016 14:25:27 GMT
Expires: Sun, 14 Aug 2016 14:25:16 GMT
Server: bfe/1.0.8.14
Set-Cookie: BDSVRTM=0; path=/
BD_HOME=0; path=/
H_PS_PSSID=20740_1445_18241_17946_19861_12443_20847_20856_20837_20771; path=/;
domain=.baidu.com
__bsi=15006780267591538685_00_28_R_N_3_0303_C02F_N_I_I_0; expires=Sun, 14-Aug-16 14:25:32
GMT; domain=www.baidu.com; path=/
Strict-Transport-Security: max-age=604800
```

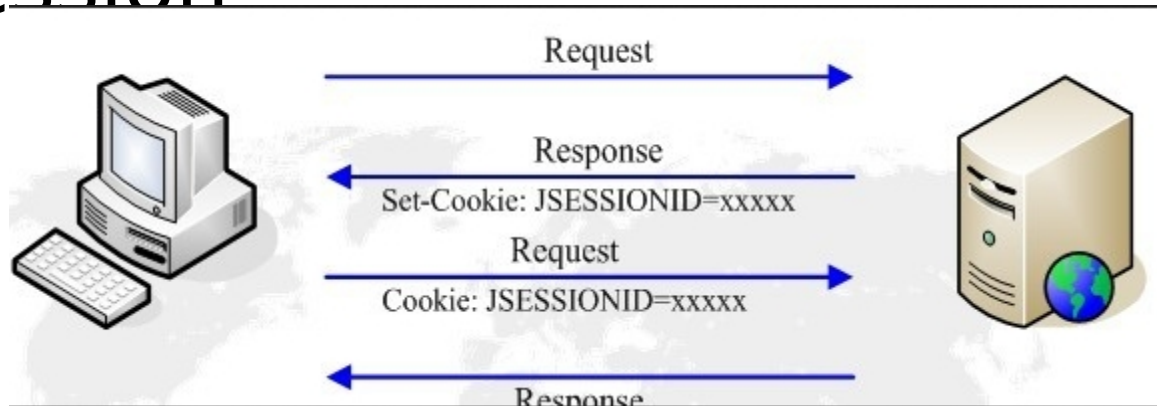
# Connecction

- persistent connection
- Pipelining

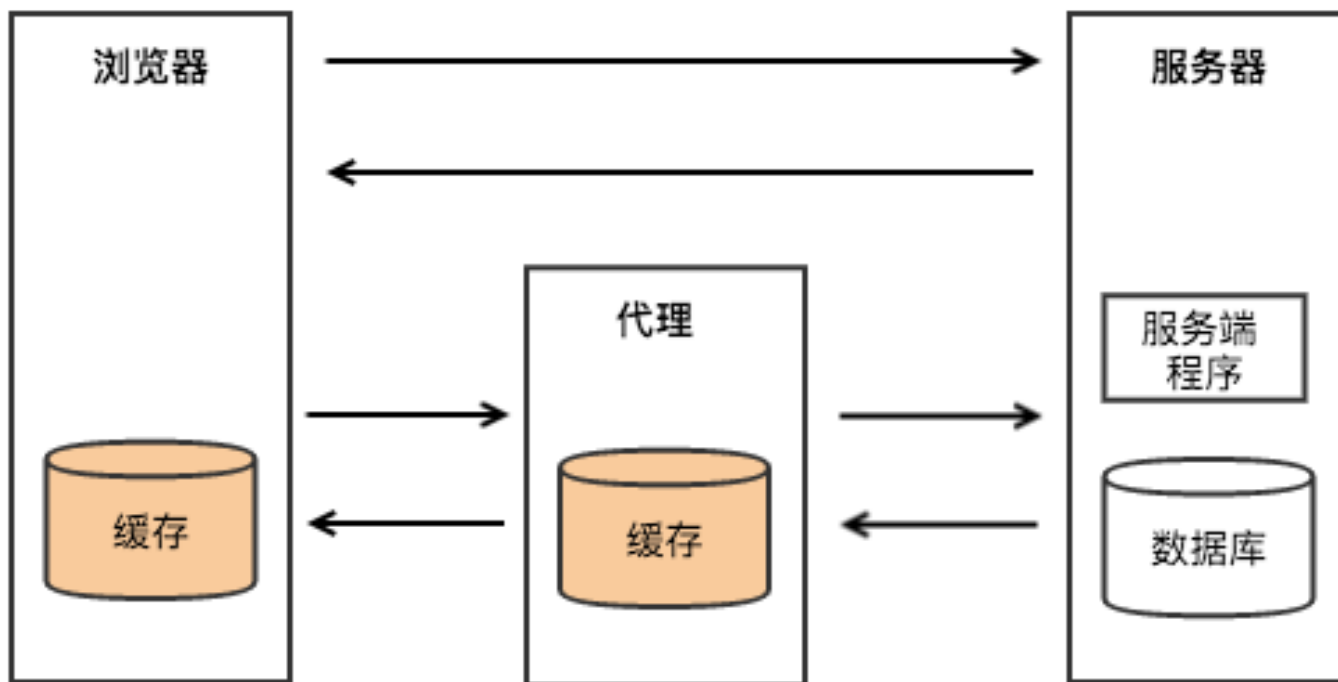
# Cookie

cookie -----

- session



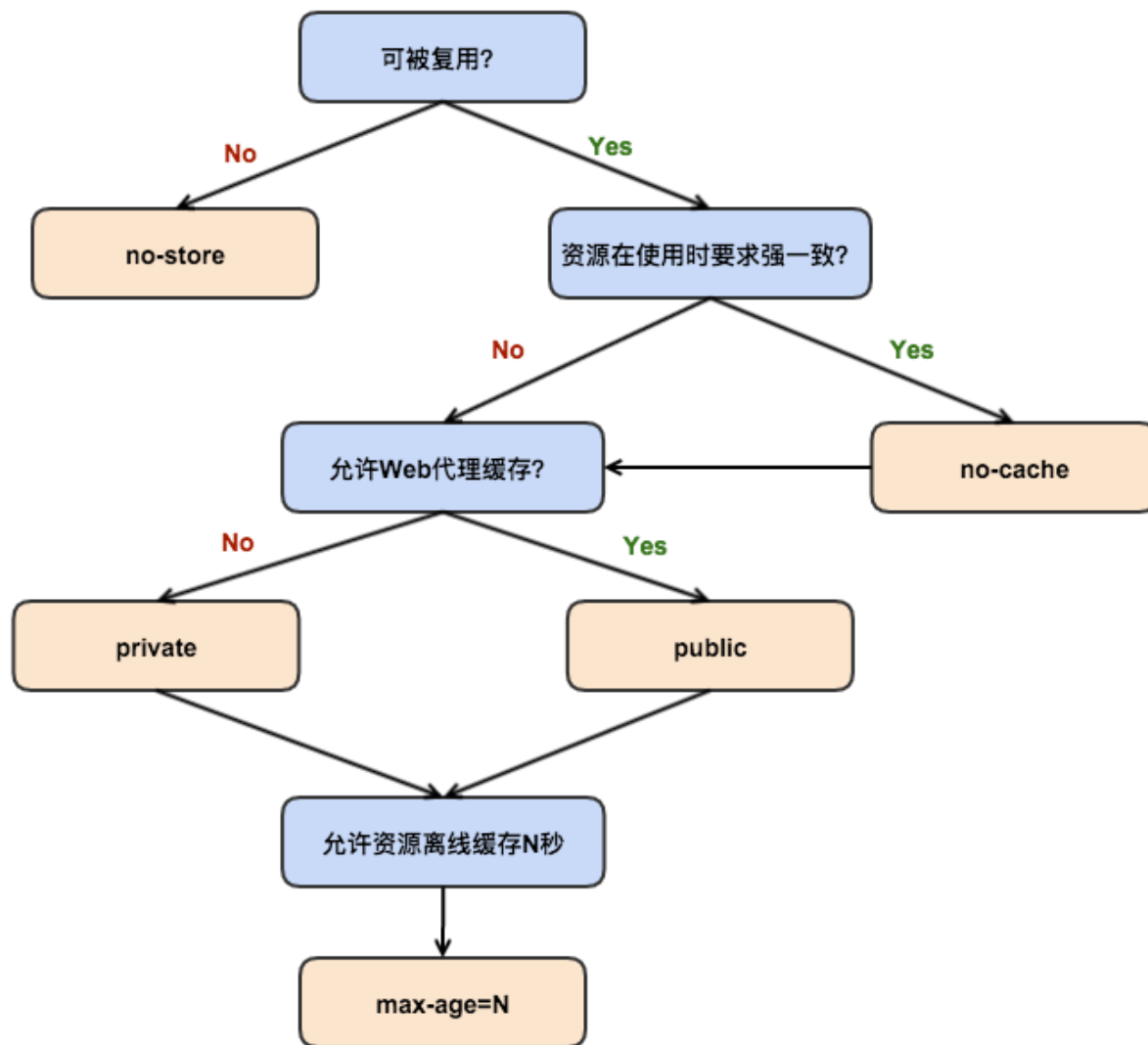
# cache



Http缓存策略, 缓存, 缓存 .

# cache

- Cache-Control
- If-Not-Match
- ETag





- Content-Type
- Content-Length
- Content-Encoding

THX