НЕТОЛОГИЯ

РАБОТА С БИБЛИОТЕКОЙ REQUESTS, HTTP ЗАПРОСЫ

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План занятия

HTTP

HyperText Transfer Protocol

- HTTP (Hypertext Transfer Protocol) is the set of rules for transferring files (text, graphic images, sound, video, and other multimedia files) on the World Wide Web
- HTTP is an application protocol that run on the top of the TCP/IP suite of protocols (the foundation protocols for the Internet)

HTTP Request

HTTP Request

- query string (method, uri, params)
- headers
- body

Headers

Message Headers

message-header = field-name ":" [field-value]
field-name   = token
field-value   = *(field-content | LWS)
field-content = <the OCTETs making up the field-value and consisting of either *TEXT or combinations of token, separators, and quoted-string>

Message example

```
HTTP/1.x 200 OK
Transfer-Encoding: chunked
Date: Sat, 28 Nov 2009 04:36:25 GMT
Server: LiteSpeed
Connection: close
X-Powered-By: W3 Total Cache/0.8
Pragma: public
Expires: Sat, 28 Nov 2009 05:36:25 GMT
Etag: "pub1259380237;gz"
Cache-Control: max-age=3600, public
Content-Type: text/html; charset=UTF-8
Last-Modified: Sat, 28 Nov 2009 03:50:37 GMT
X-Pingback: http://net.tutsplus.com/xmlrpc.php
Content-Encoding: gzip

Vary: Accept-Encoding, Cookie, User-Agent


<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Strict//EN" "http://www.w3.org/TR/xhtml1/DTD/xhtml1-strict.dtd">

<html xmlns="http://www.w3.org/1999/xhtml">

<head>

<meta http-equiv="Content-Type" content="text/html; charset=utf-8" />

<title>Top 20+ MySQL Best Practices - Nettuts+</title>
```
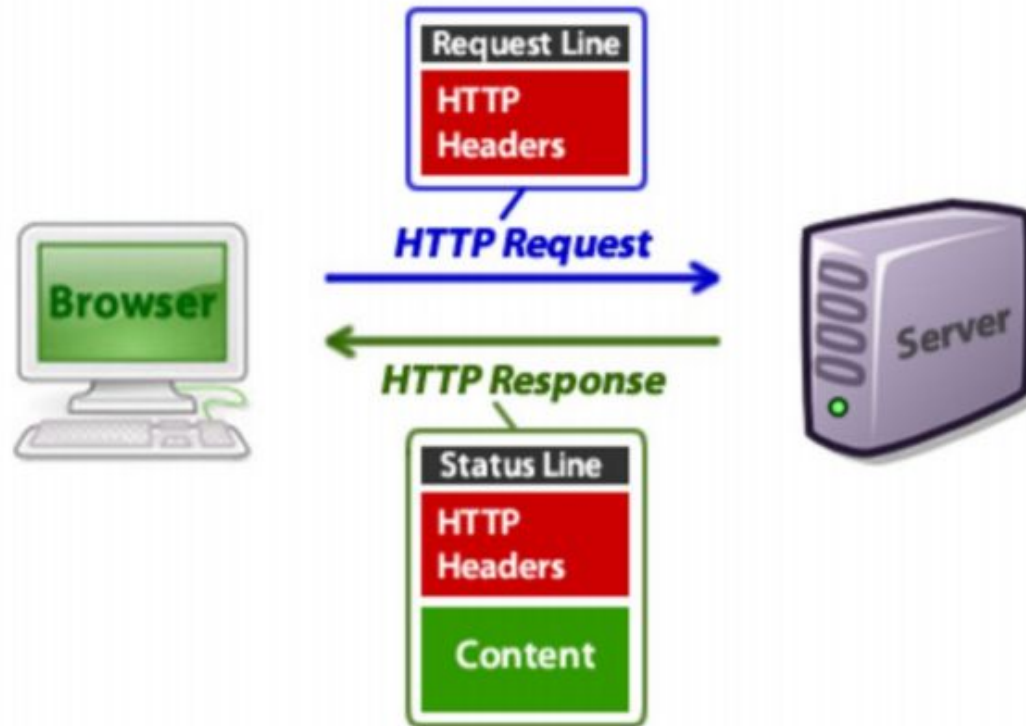
Client-Server

Client <-> Server

HTTP methods

HTTP methods

SAFE METHODS
NO ACTION ON SERVER
{ **GET** — HTTP/1.1 MUST IMPLEMENT THIS METHOD
  HEAD — INSPECT RESOURCE HEADERS

MESSAGE WITH BODY
SEND DATA TO SERVER
{ **PUT** — DEPOSIT DATA ON SERVER – INVERSE OF GET
  POST — SEND INPUT DATA FOR PROCESSING
  PATCH — PARTIALLY MODIFY A RESOURCE

TRACE — ECHO BACK RECEIVED MESSAGE
OPTIONS — SERVER CAPABILITIES
DELETE — DELETE A RESOURCE – NOT GUARANTEED

POSTMAN

Библиотека request

Transfer data types

- Get-params
- JSON
- Files
- XML

Response status codes

- 1XX - Informational
- 2XX - Success
- 3XX - Redirection
- 4XX - Client error
- 5XX - Server error

Sources

http://docs/pyhon-requests.org/

https://stackoverflow.com/

https://www.w3.org/Protocols/rfc2616/rfc2616.html

Other:

http://requestb.in

http://httpbin.org/

Домашнее задание

Давайте посмотрим ваше [домашнее задание](#).

- Вопросы по домашней работе задаём в чате Slack!

- Задачи можно сдавать по частям.

- Зачёт по домашней работе проставляется после того, как приняты **все задачи**.

НЕТОЛОГИЯ

Задавайте вопросы и напишите отзыв о лекции!

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