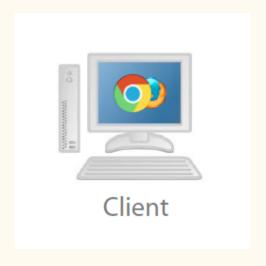
# HTTP

# HYPERTEXT TRANSFER PROTOCOL

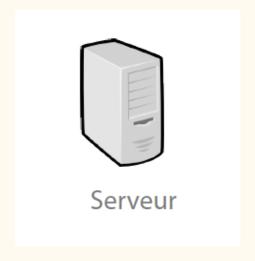
#### WHAT IS IT?

- A protocol to transfer resources
- Resource means file (HTML, CSS, images, JS, ...)
- Based on a system of query / response
- Between 2 machines, a client and a server

# CLIENT

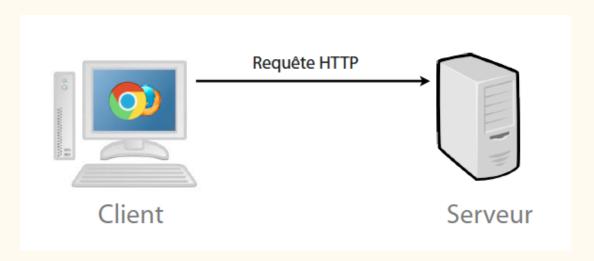


# SERVER



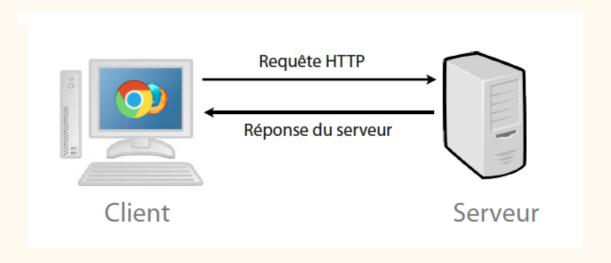
#### **CLIENT - SERVER**

A client (browser) sends a request to a server ex: give me the page http://google.com



#### **CLIENT - SERVER**

The server treats client's request and send him back the response



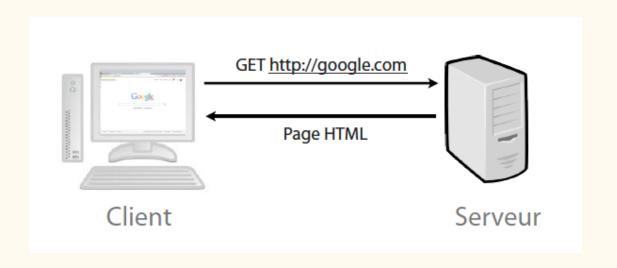
#### CLIENT & SERVER CHAT TOGETHER

# HTTP REQUESTS

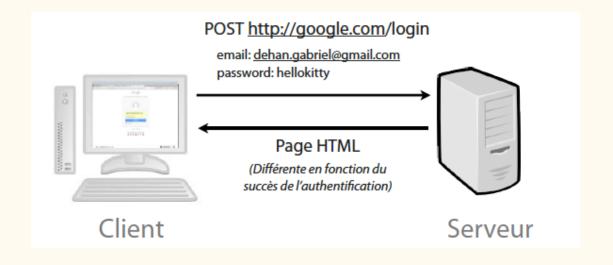
### TYPE OF REQUEST

- GET: get a page => "I want the page http://google.com"
- POST: send data => "Here are my email and password, I want in!"
- PUT, PATCH: partially or totally replace data => "Change my password please"
- DELETE: delete data => "Delete my account! Your service sucks""

# **GET REQUEST**



# POST REQUEST



## WHAT'S IN A HTTP REQUEST?

More than just an URL!!!!

# INSIDE A HTTP REQUEST

#### REQUEST TYPE AND URL

• ex: GET 'http://lewagon.org', POST 'http://facebook.com')

#### HEADER

- Gives info on the content of the request's body
- ex: Content-Type, Content-Length, Host, User-Agent

#### BODY

- in the server **response**, the body contains the **HTML** of the page
- in a client **POST request**, the body includes the info to send.

#### **EXAMPLES OF GET & POST**

GET <a href="http://www.lewagon.org/">http://www.lewagon.org/</a> HTTP/1.1

Accept: text/html

User-Agent: Chrome/34.01847.131

Host: www.lewagon.org

POST http://www.lewagon.org/login HTTP/1.1

User-Agent: Chrome/34.01847.131

Content-Type: application/x-www-form-urlencoded

Content-Length: 32

email=dehan.gabriel@gmail.com&password=hellokitty

#### **PLAY WITH IT**

To deeply understand the structure of a request



**Dev HTTP client** 



Postman REST client