

**How do most
services work?**

Through an API

Web-101

Client



Web-101

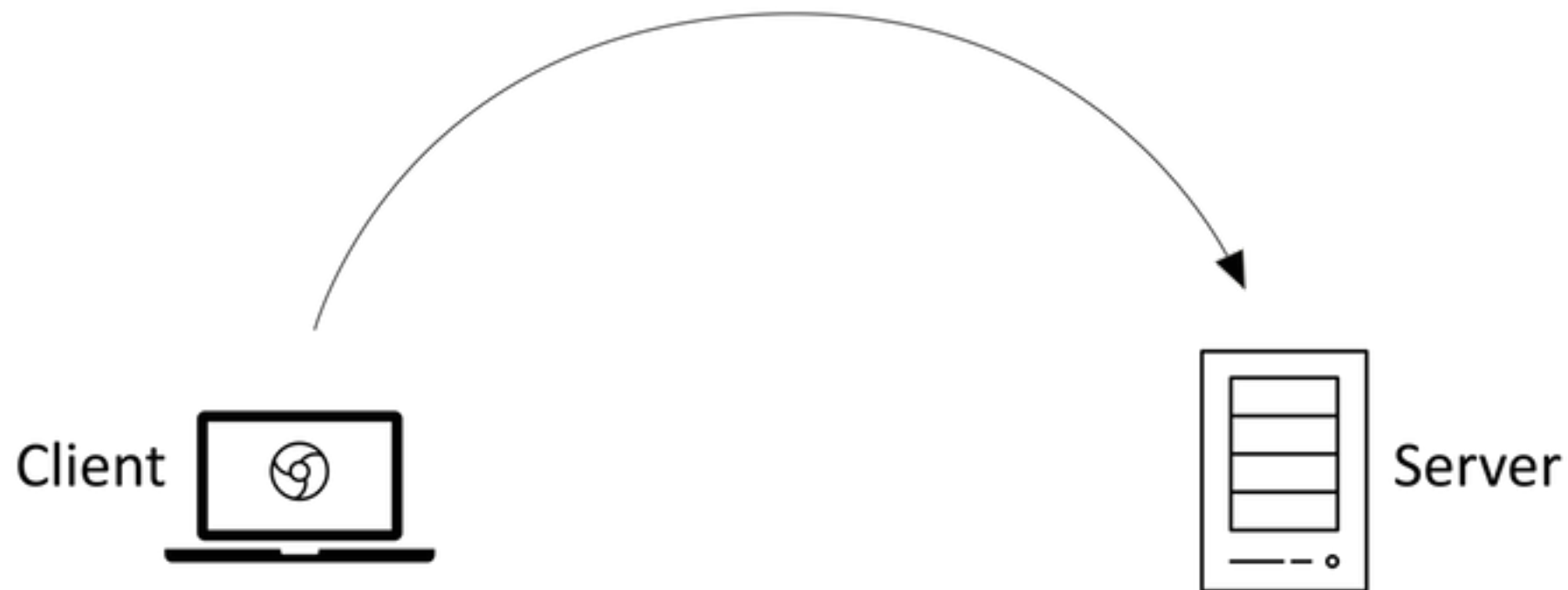
Client
+
Browser



Web-101

HTTP request with URL

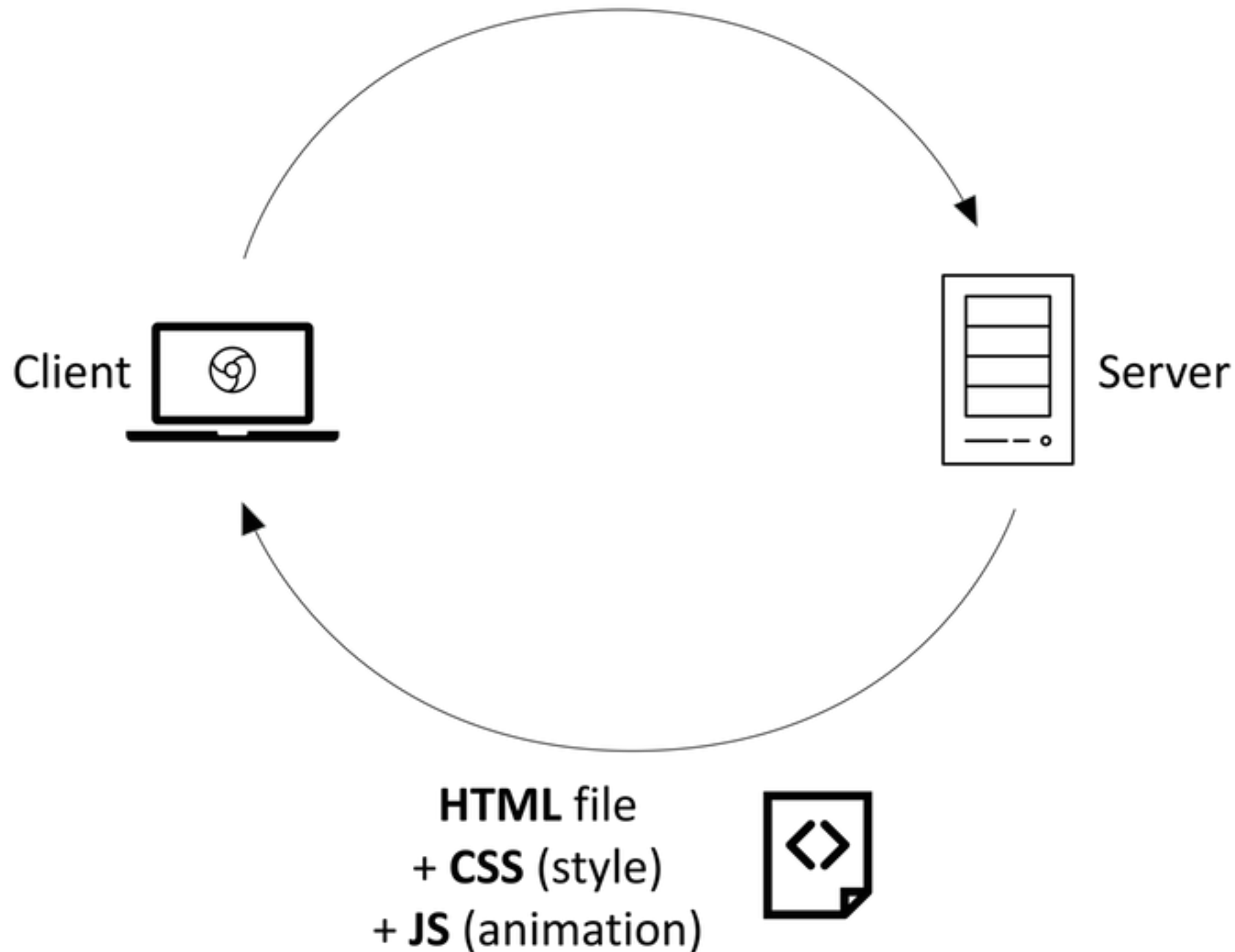
GET "http://lewagon.org/program"



Web-101

HTTP request with **URL**

GET "http://lewagon.org/program"



Human interface



#1 Bill Gates
\$81.9 B



#2 Carlos Slim Helu &
family
\$79.2 B



#3 Warren Buffett
\$72.9 B

Readable content
HTML / CSS

Programming interface

```
{"richestPeople": [  
  {"firstName": "Bill", "lastName": "Gates", "value": "81"},  
  {"firstName": "Carlos", "lastName": "Slim", "value": "79"},  
  {"firstName": "Warren", "lastName": "Buffet", "value": "72"}  
]}
```

Structured data

API

HTTP request with **URL**

GET "http://lewagon.org/program"



CSV

```
"Name", "Appearance", "Origin"  
"Edelweiss", "White", "Austria"  
"Cuvée des Trolls", "Blond", "Belgium"  
"Choulette Ambrée", "Amber", "France"  
"Gulden Draak", "Dark", "Belgium"
```

JSON

```
{  
  "title": "Great beers",  
  "beers": [  
    {  
      "name": "Edelweiss",  
      "appearance": "White",  
      "origin": "Austria"  
    },  
    {  
      "name": "Cuvée des Trolls",  
      "appearance": "Blond",  
      "origin": "Belgium"  
    },  
    # ...  
  ]  
}
```

JSON

JAVASCRIPT OBJECT NOTATION

Human readable text

Format derived from JavaScript but completely independent

Key-value pair datas

Let's compare

Github **website**

<https://github.com/tgenaitay>

Github **API**

<https://api.github.com/users/tgenaitay>

Let's play with Facebook graph API



Graph API Explorer

Explore the Graph API from your browser. Test permissions, query data and learn more about the Graph API syntax.

