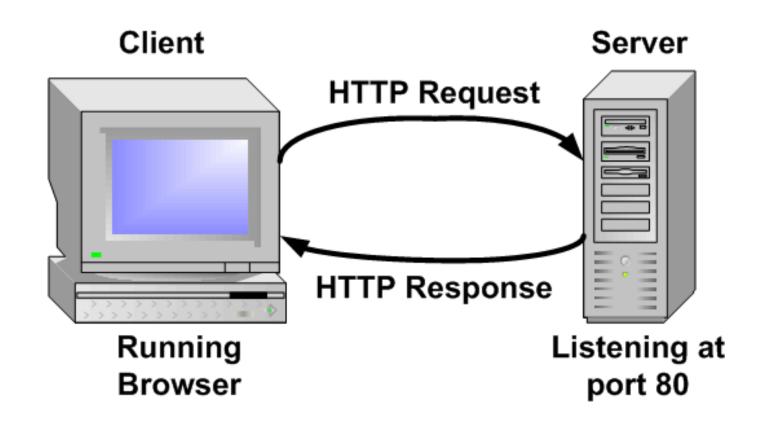
GNU Python3

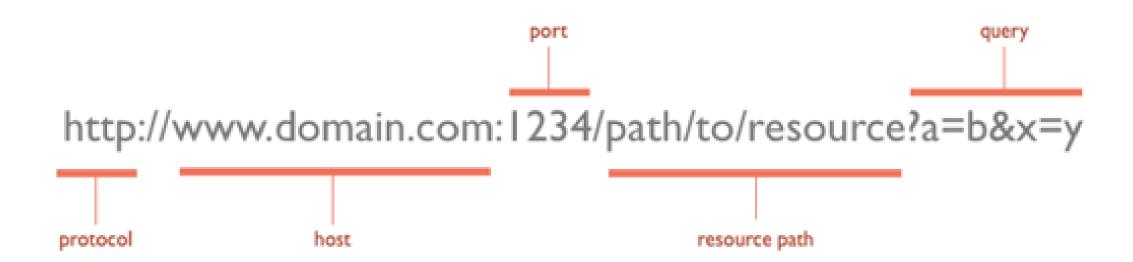
HTTP, GET, "Simple Webserver", JSON, SERIALIZATION, DESERIALIZATION, POST, GET, DELETE, oAuth 2.0, "Login with Instagram", "New comment/ Get comments/ Delete Comment"

HTTP (HyperText Transfer Protocol)

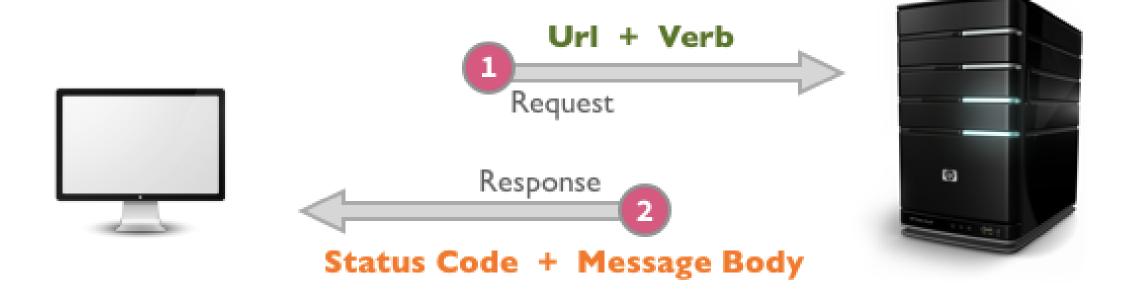
The Hypertext Transfer Protocol (**HTTP**) is designed to enable communications between clients and servers.







HTTP Methods (Verbs)



GET

- Most common http method
- Should be used to read data
- Can be seen on browser history
- Data can be sent through resource path or query
- but url length limit is 2048
- http://www.bilkentgnu.com/animals/dogs?color=red&height=tall
- Safe
- Idempotent

JSON

- JavaScript Object Notation
- Lightweight syntax for storing and exchanging data
- Language independent
- Easy to serializable / deserializable
- JSON is a format that encodes objects in a string. Serialization means to convert an object into that string, and deserialization is its inverse operation.

•

```
Object Starts
"Title": "The Cuckoo's Calling",
"Author": "Robert Galbraith",
"Genre": "classic crime novel",
"Detail": { 🐗
                                                           Object Starts
                                             Value: string
    "Publisher": "Little Brown",
                                                         Value: number
    "Publication Year": 2013,
    "ISBN-13": 9781408704004,
    "Language": "English",
    "Pages": 494
                                                Object ends
"Price": I
                                                       Array starts
                                                    Object Starts
        "type": "Hardcover",
        "price": 16.65
                                                    Object ends
                                                    Object Starts
        "type": "Kidle Edition",
        "price": 7.03
                                                    Object ends
                                             Array ends
                                                              Object ends
```

https://www.instagram.com/developer/endpoints/comments/

POST

- Another common http method
- Should be used to create resource
- Data can be send through its body (No length limit)
- JSON can be sent through POST
- Form data can be sent through POST. That's why when you refresh a page after sent form, browser asks: It can be dangerous.
- Non-idempotent
- Non-safe

PUT

- Should be used to update current resource.
- Data can be send through its body (No length limit)
- JSON can be sent through PUT
- Non-safe
- Idempotent

DELETE

- Should be used to remove current resource
- Non-safe
- Non-idempotent

OAuth 2.0

Server-side (explicit)
Login flow

(Through authorization code)

