



Http



Https

HTTP

By:

FATMA ELKASSABY

HTTP:

History: → hyper text transfer protocol

First Http → 1991

Client Side + Server Side → عشان يتواصلوا مع
http بعض محتاجين

Http Request → method → post بنبتع بيانات معينه

Http Request → client بيكلم server

Request Formation → URL (اسم الحاجه اللى راحه

Facebook , youTube,.....) - **Methods Type** (

Action → post,get,...) - **Headers** (التعريف) - **Body** (المكان
(اللى بنشيل فيه الداتا

URL Anatomy

https://example.com:80/blog?search=test&sort_by=created_at#header

↓ ↓ ↓ ↓ ↓
Protocol Domain Port Path Query Parameters Fragment/Anchor

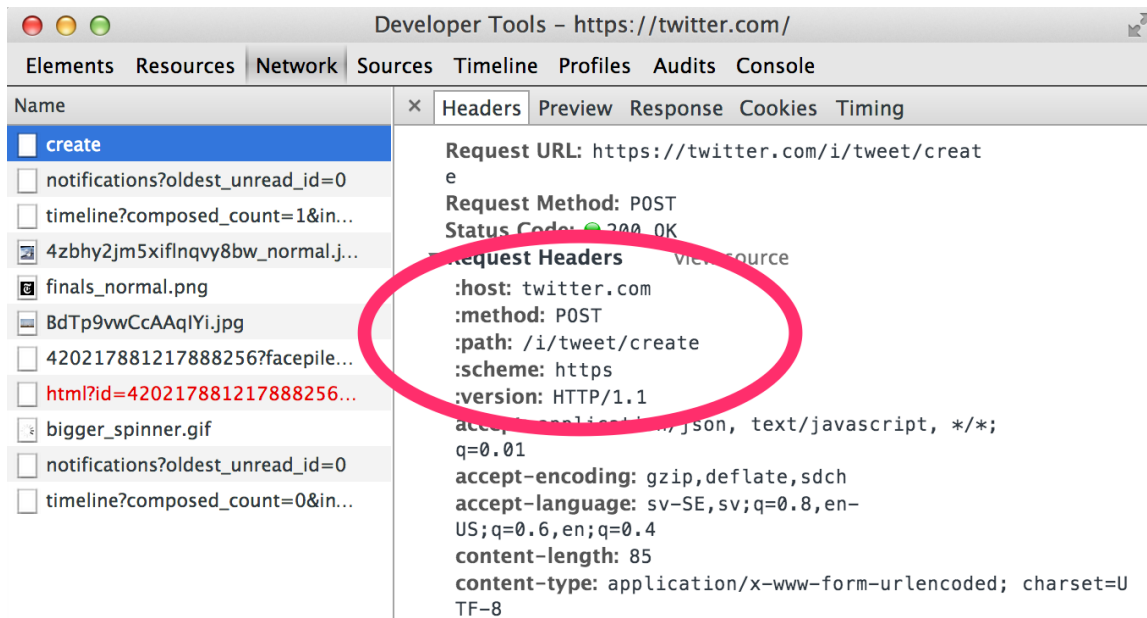
Method Type → **Get** : بجيب Data → **Head**

Post : بيعت Data

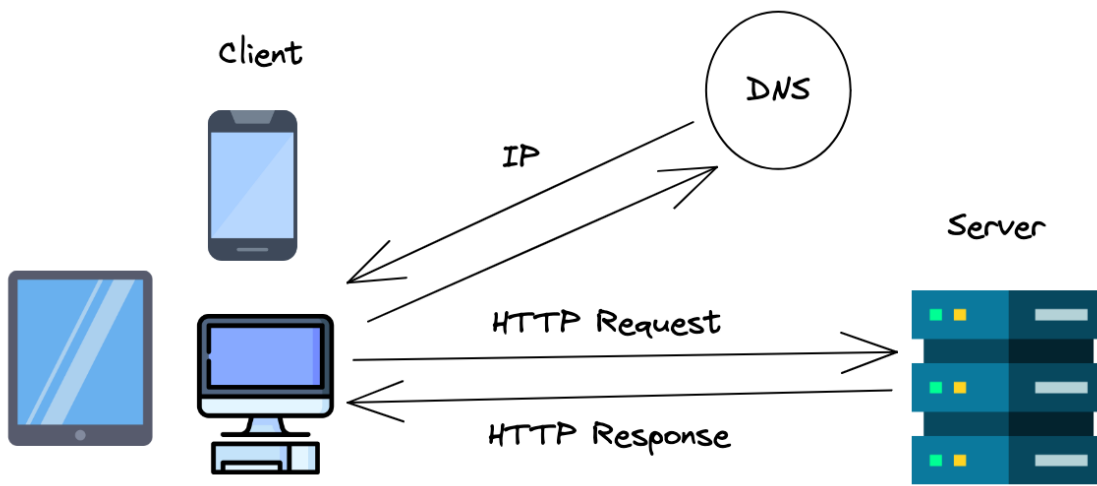
Patch: update Data → **PUT**

Delete: بمسح Data

Headers → information اللي بتبقى موجوده in Request Or Response



Body → web contain (Text ,Image , Video,file,..) بترجع صفحة



Response Formation → Status Code

(404,424,...), Headers, Body.

Response → server بيكرم or clients بيرد على

HTTPS → بيروح يكلم ال **connection** قبل ما يفتح ال

Server → **HandShake** (http تشفير وامن اكثر للبيانات من)

HTTPS vs HTTP Connections

HTTPS Connection (Secure)



Customer



Users connect to your site via a secure (HTTPS) connection. This encrypts the data transmission channel to secure it against access by outside parties.



Your Web
Server

HTTP Connection (Insecure)



Customer



Users connect to your site via an insecure (HTTP) connection. This leaves any data in transit open to man-in-the-middle attackers.



Your Web
Server

Status Code:

HTTP STATUS CODES

2xx Success

200 Success / OK

3xx Redirection

301 Permanent Redirect

302 Temporary Redirect

304 Not Modified

4xx Client Error

401 Unauthorized Error

403 Forbidden

404 Not Found

405 Method Not Allowed

5xx Server Error

501 Not Implemented

502 Bad Gateway

503 Service Unavailable

504 Gateway Timeout