













Introduction to the Web















Content

- The Web
- HTML
- URLs
- HTTP
- Web Applications















World Wide Web

HTML (Hypertext Markup Language)

لغة ترميز النصوص التشعبية

Hyper Links







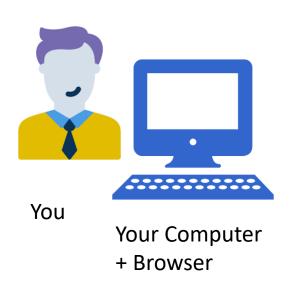






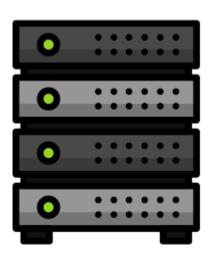


Components of the Web









Servers







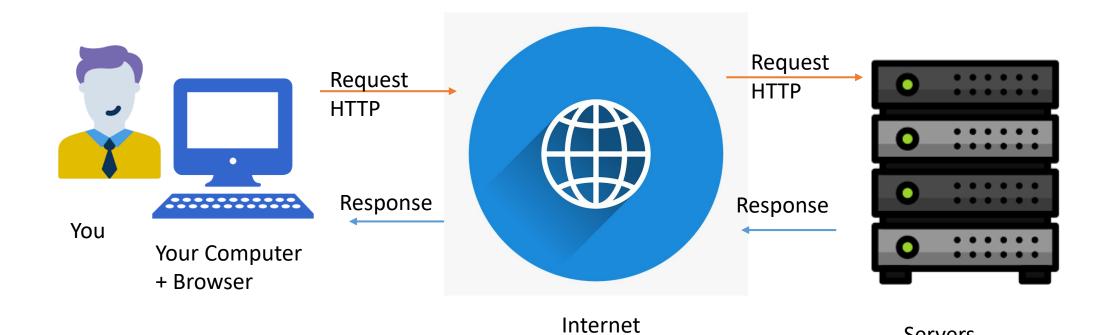






Servers



















What is the Best Browser?

















HTML

- Text Content: What you see
- Markup: What it looks like and arranged
- References to other documents: eg. Images, videos
- Links to other pages















HTML Basics

https://www.w3schools.com/html/tryit.asp?filename=tryhtml_default















HTML Markup

Tag Structure

- <Name>Contents</Name>
- <Name>: Opening Tag
- </Name> Closing Tag
- Full line called Element















Bold ...















Italic(Emphasis)

...















Missing End Tag

















HTML Attributes

<Tag Attr="value">contents</Tag>















Links (Anchor Tags) <a>

Go to Google















Images

Img is a void tag (has no content)















Try it yourself with below image directory

https://www.flaticon.com

Inline image inside text















White spaces

- Inline text
-
 void tag
- contents paragraph tag









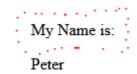






Inline vs Block

-
is inline tag
- is block tag
- My Name is:Peter

















Span and div

- text
- <div>content</div>















HTML Document Structure

```
<!DOCTYPE html>
<HTML> doc type

<HEAD> meta data – JS - CSS

<TITLE>My first HTML document</TITLE>
</HEAD>

<BODY>

Hello world!</BODY>
</HTML>
```















URLs (*Uniform Resource Locator*)

محدد موقع المعلومات















URLs (*Uniform Resource Locator*)

Example: https://google.com/

https Protocol (Hypertext transfer Protocol)
google.com Host or Domain
/ Path















URLs Query Parameters (Get)

Example

https://example.com/about?f=1

Another Example

https://example.com/about?f=1&p=value

Real Example

https://www.dalel.6ocity.net/cat.php?id=4















URLs Fragments (قطعة) -named anchor

Example

https://example.com/about#fragment

Another Example

https://example.com/about?f=5#fragment

Real Example

https://datacadamia.com/web/html/template#slot















(المنفذ) URLs Port

Example

https://example.com:1080

Default port is 80















Quiz

https://example.com:80/toys?p=54#demo

Host: ??

Protocol: ??

Fragment: ??

Query: ??

Port: ??















HTTP Hypertext Transfer Protocol بروتوكول نقل النص التشعبي

Get /foo HTTP /1.1 (Request Line)

Get: Method (another method is POST)

/foo: Path

HTTP/1.1: Version (another version is 1.0)















Quiz

http://example.com/about.php?p=4#instructor

What is the request line using HTTP/1.1















HTTP Response

Request
GET /foo HTTP/1.1
Request Line

Response

HTTP/1.1 200 OK

Status Line

200: Status Code

OK: Reason Phrase















Status Codes

• 200: OK

• 302: Found

• 404: Not Found

• 500: Server Error















Thank You