

Programación de Aplicaciones Telemáticas

## TEMA 3: HTML

#### **AGENDA**

- Introducción
- ¿Que es un documento web?
- HTML
- Estructura de un documento web
- Contenido
- Layout
- Interacción
- Seguridad
- Referencias

## INTRODUCCIÓN

La web permite interaccionar con Humanos y Máquinas a través del protocolo HTTP.

## ¿QUE ES UN DOCUMENTO WEB?

Los documentos web componen la unidad minima de información que permite intercambiar un Servidor Web con un Cliente Web a través de una petición Http.

Un documento web se compone de:

- HTML
- CSS
- Javascript

## ¿QUE ES UN DOCUMENTO WEB?

Un documento tambien puede incluir:

- Imégenes
- Vídeo
- Objetos hipermedia incluidos (PDF, otros...)

#### HTML

Hypertext Markup Language (HTML) is the standard markup language for documents designed to be displayed in a web browser. It can be assisted by technologies such as Cascading Style Sheets (CSS) and scripting languages such as JavaScript.

# ESTRUCTURA DE UN DOCUMENTO WEB

- Doctype
- Head
- Body

#### **DOCTYPE**

Todos los documentos web, deben empezar con una declaración < !DOCTYPE>

Indica con que tipo version de documento HTML debe ser parseada.

#### **HEAD**

The HTML < head > element contains machinereadable information (metadata) about the document, like its title, scripts, and style sheets.

### **HEAD**

Example: view-source:https://as.com/

```
<meta http-equiv="Content-Type" content="text/html; charset=ut
<meta name="robots" content="index, follow">
<meta name="viewport" content="width=device-width, initial-sca
<title>AS.com - Diario online deportivo. Fútbol, motor y mucho
<meta http-equiv="Refresh" content="900000; url=//as.com/?omna
<meta http-equiv="X-UA-Compatible" content="IE=edge">
<meta name="Description" content="Últimas noticias de deportes
<style type="text/css"></style>
<script language="javaScript" type="text/javascript"></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></s
```

#### **BODY**

The HTML < body > Element represents the content of an HTML document. There can be only one < body > element in a document.



### **CONTENIDO**

En un documento web se pueden añadir:

- Títulos
- Párrafos
- Tablas
- Multimedia
- Formularios Web

# CONTENIDO TÍTULOS

```
<h1>Header 1</h1>
<h2>Header 2</h2>
<h3>Header 3</h3>
<h4>Header 4</h4>
```

## CONTENIDO

#### **PARRAFOS**

Lorem ipsum dolor sit amet, consectetur adipiscing elit.
Maecenas viverra turpis id pharetra accumsan.
Praesent et nibh non purus ultrices gravida sed id ligula.
Curabitur luctus, erat non rutrum accumsan, nibh nisi tempor o finibus ultrices quam lectus ut elit. Donec molestie euismod n

#### CONTENIDO

#### **TABLAS**

```
<thead>
      Columna 1
         Columna 2
      </thead>
   Valor 1
         Valor 2
```

# CONTENIDO MULTIMEDIA

<img src="url" width="50%" height="50%">

# CONTENIDO FORMULARIOS

# CONTENIDO FORMULARIOS

- https://developer.mozilla.org/en-US/docs/Web/HTML/Element/form
- https://developer.mozilla.org/en-US/docs/Web/HTML/Element/button
- https://developer.mozilla.org/en-US/docs/Web/HTML/Element/input

# CONTENIDO FORMULARIOS

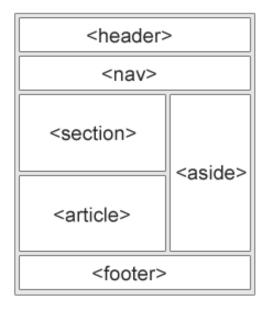
- https://developer.mozilla.org/en-US/docs/Web/HTML/Element/select
- https://developer.mozilla.org/en-US/docs/Web/HTML/Element/option
- https://developer.mozilla.org/en-US/docs/Web/HTML/Element/textarea



#### LAYOUT

- < header > Defines a header for a document or a section
- < nav > Defines a set of navigation links
- < section > Defines a section in a document
- < article > Defines an independent, self-contained content
- < aside > Defines content aside from the content (like a sidebar)
- < footer > Defines a footer for a document or a section

## LAYOUT



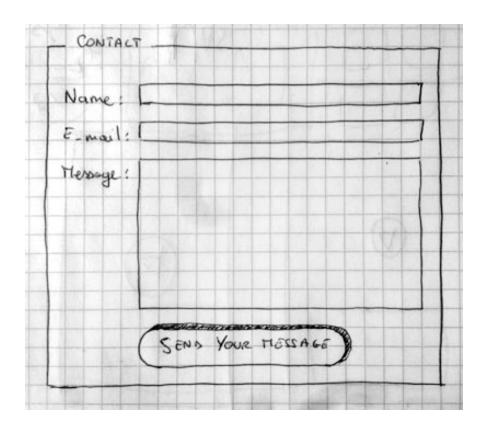
## LAYOUT TECHNIQUES

- CSS float property
- CSS flexbox
- CSS grid

Otros tipos: Iframes



Web forms are one of the main points of interaction between a user and a web site or application. Forms allow users to enter data, which is generally sent to a web server for processing and storage (see Sending form data later in the module), or used on the clientside to immediately update the interface in some way (for example, add another item to a list, or show or hide a UI feature).



```
<form action="/my-handling-form-page" method="post">
</form>
```

```
<form action="/my-handling-form-page" method="post">
   <label for="name">Name:</label>
   <input type="text" id="name" name="user name">
   <label for="mail">E-mail:</label>
   <input type="email" id="mail" name="user email">
   <label for="msg">Message:</label>
   <textarea id="msg" name="user message"></textarea>
```

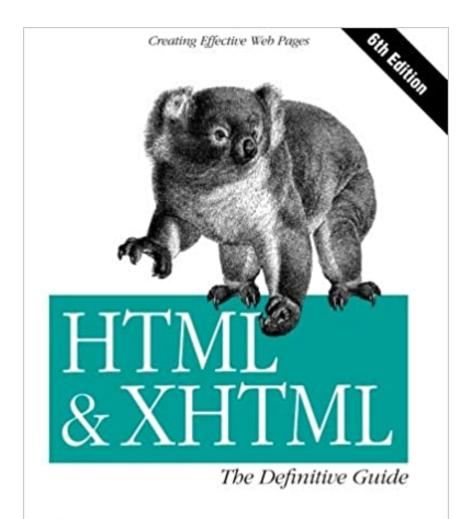


# SEGURIDAD HTML

- XSS
- Self-executing
- JavaScript execution
- Passive JavaScript execution
- HTML comment parsing issues
- Iframes
- Link hijacking

#### REFERENCIAS

- https://developer.mozilla.org/en-US/docs/Web/HTML
- https://www.w3schools.com/html/html\_layout.asp
- https://www.w3schools.com/html/html\_forms.asp
- https://html5sec.org/
- https://developer.mozilla.org/en-US/docs/Learn/Common\_questions/set\_up\_a\_local\_testir



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