# HTML

<!**DOCTYPE** ...>  
<!--- ... comment ... -->  
<**html**>  
<**head**>  
<**meta** charset="**UTF-8**">  
<**link** rel="**stylesheet**" href="mystyle.css">  
<**title**> ...<</title>  
</head>  
<**body**>  
<**h1**>...</h1><h2>...</h2>...  
<**p**>...</p>  
<**ul**>  
 <**li**>...</li>  
</ul>  
<**ol**>   
 <**li**>...</li>  
</ol>  
<b>...</b><i>...</i><pre>...</pre>...  
<br/>  
<**div**>...</div>  
<**span**>...</span>

<iframe>...</iframe>  
<**table**>  
 <**tr**>   
 <**th**> ...</th>  
 </tr>  
 <tr>  
 <**td**> ...</td>  
 </tr>  
</table>  
<**img/**>  
<**a**> ... </a>  
<**form**>  
 <label>...</label>  
 <**input** **type**="**text**" / "**password**" / "**number**" / "**checkbox**" /

"email" / "**radio**" /" date" / "**submit**" / "button" /

"hidden".../>  
 <**select**>

<optgroup>  
 <**option**>...</option>

</optgroup>  
 </select>  
 <textarea>...</textarea>  
 <button>...</button>  
 <fieldset>  
 <legend>...</legend>

</fieldset>   
</form>  
</body>  
</html>

## LAYOUT

<https://www.w3schools.com/html/html_layout.asp>

## HTML5

<header>...</header>  
<nav>...</nav>

<main>...</main>

<aside>...</aside>  
<article>...</article>  
<section>...</section>  
<figure>...<figcaption>...</figcaption>...</figure>  
<footer>...</footer>

## HTML Protocol

# escucha puerto 8080  
nc -l 8080

# abrir en navegador <http://localhost:8080/> y ver terminal

## HTML Developer Tools

Acceso con F12

Chrome (más opciones de menú en ‘>>’)

* Console
* Cookies: Application → Storage/Cookies
* Debugging: Sources (buscar archivo js): breakpoint (click line number), step, …)
* Inspect: Elements (seleccionar con icono con flecha)

Firefox:

* Console
* Cookies: Storage → Cookies
* Debugging: Debugger (buscar archivo js): breakpoint (click line number), step, …)
* Inspect: Inspector (seleccionar con icono con flecha)

## UTF-8

Charset (codepage): traducción de caracter a bytes

<https://en.wikipedia.org/wiki/UTF-8>

* un caracter puede ser 1, 2, 3 ó 4 bytes:  
  **longitud en caracteres de texto != longitud en bytes (memoria)**
* echo ñ | hexdump -C # ñ ocupa dos bytes
* echo a | hexdump -C # a ocupa 1 byte
* incluye todos los alfabetos del mundo
* los 128 caracteres ASCII (<https://en.wikipedia.org/wiki/ASCII>) tienen la misma codificación

# CSS

## Selector

* **element** {
* **.class** {
* element.class {
* **#id** {
* element#id {
* **combinator**:
  + descendant: div p {
  + children: div > p {
  + adjacent sibling: div +p {
  + sibling: div ~ p {
* pseudo-classes:
  + **state**: a:hover {
* pseudo-elements:
  + p::first-line {
* attribute selectors:
  + input[type=”button”] {

## Box model

<https://www.w3schools.com/css/css_boxmodel.asp>

* margin
* border
* padding
* content

## Properties

* **display**:
  + **flex**: flex-direction, flex-flow, ...
  + **block**
  + **inline**
* **position**:
* z-index:
* **height/width max-width**:
* **overflow**:
* **float**:
* **font**-family/style/weight:
* **background**-color:
* border:
* **color**:
* text-align:

# JSON

cat <<EOF | jq .  
{   
 "nada": null,  
 "verdad": true,  
 "falso": false,  
 "numero": 23,  
 "cadena": "string",  
 "tabla": [  
 1,2,3,4,  
 "a","b",  
 true,false,  
 null  
 ],  
 "objeto": { "fruta":"pera"}  
}  
EOF

# Javascript

## Source code

* **<script src=’my.js’></script>**

## Objects

* **document y sus elements: https://www.w3schools.com/js/js\_htmldom.asp**
* **window**
* **location**
* **console**
* **Date**

## Methods

* **location.replace, location.assign**
* **document.getElementById, document.getElementByClassName, …**
* **console.log**
* **window.alert**

## Properties

* **location.href**
* **document.getElementById(‘my\_id’).innerHTML**

## Events

* **onLoad**
* **onClick**
* onChange
* **onSubmit:** return true / false