



ESCUELA TÉCNICA SUPERIOR DE INGENIERÍA – ICAI
Departamento de Sistemas Informáticos

Developing web-based applications

Chapter 0. HTML review

Cristina Puente, Rafael Palacios
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HTTP (review)

- HTTP (Hyper-Text Transfer Protocol) is a communications protocol for transferring documents through a TCP/IP connection.
- It differs from other protocols such as FTP in implementing anonymous authentication.
- The upper layer of web servers is HTTP

<http://www.google.com>

<http://www.iit.upcomillas.es/palacios/cursoweb/>

protocol



HTML

- HTML (Hyper-Text markup Language) is a **page description language**, implemented as a subset of the older SGML
- HTML is just a series of instructions for specifying the visual characteristics of a document.
- HTML differs from other page description languages such as PostScript or PDF in:
 - It is hyper-text (links) capable. (also PDF)
 - Visual aspect of the document depends on user preferences (resolution, font size...) HTML does not produce an identical results for every user or device.

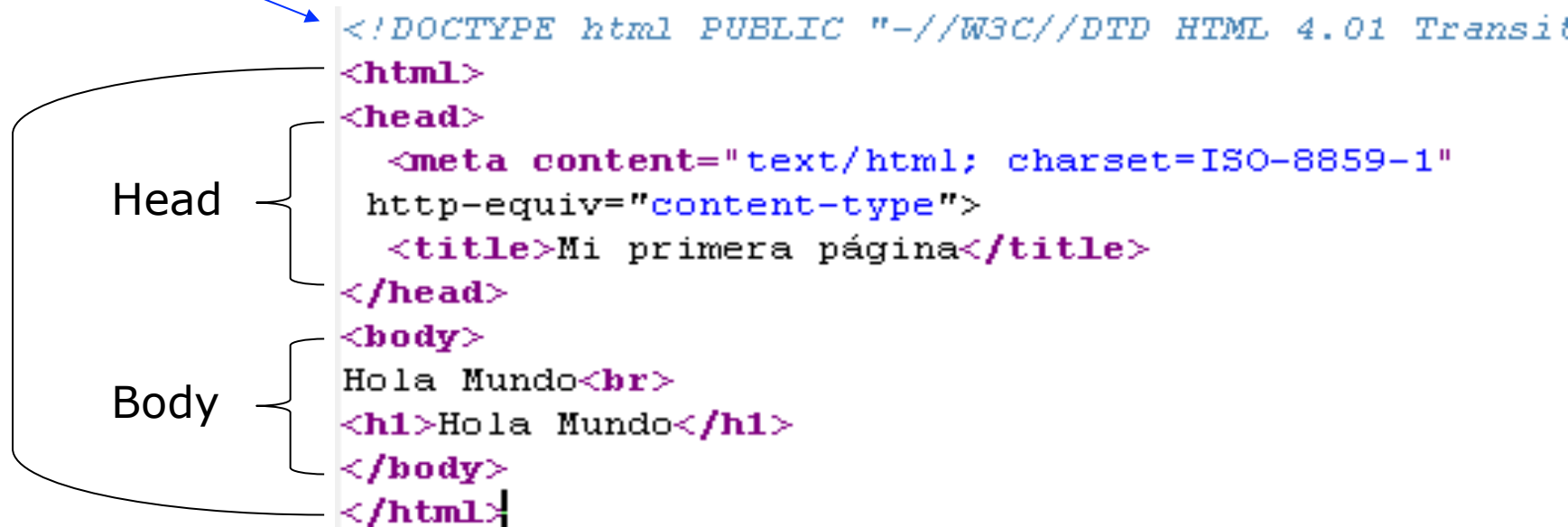
file type

<http://www.iit.upcomillas.es/palacios/cursoweb/upload.html>



Main sections

Document type



The most important parameter within **Head** section is the title.
The head may also contain keywords, language, styles...

The **Body** section contains all the information shown to the user.



Main Labels

- **Title/Headings:**

- Page title (defined within `<head>`):
`<title>My web page</title>`
- Heading 1: `<h1>1 Introduction</h1>`
- Heading 2: `<h2>1.2 Motivation</h2>`

- **Highlighting text:**

- Bold: `bold text`
- Italics: `<i>to be displayed in italics</i>`
- Teletype (monospaced font): `<tt>printf</tt>`

- **Size** (warning: use relative definition):

- Small: `<small>I'm small text</small>`
- Big: `<big>I'm large text</big>`





Main Labels (2)

- **Links:**

- Relative link:

More information can be found in the `Norm`.

More information can be found in the [Norm](#).

- Absolute link:

iPod is manufactured by `Apple`.

iPod is manufactured by [Apple](#).





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Tables

Tables

Tables

- The best way to structure information.
- Tables are defined with the `<table>` tag. First you have to define the properties of the table, and later the properties of rows and columns.
- To create a table with one row and two columns, the HTML code would be:

```
<TABLE>  
  <TR>  
    <TD>Content of the first cell</TD>  
    <TD>Content of the second cell </TD>  
  </TR>  
</TABLE>
```





Tables

Tables

– <table> attributes:

| | |
|-------------|--|
| border | To display a table with borders. 0 means no border |
| cellspacing | Controls the space between table cells |
| cellpadding | Sets the amount of space between the contents of the cell and the cell wall. The default is 1. |
| width | Table width |
| bgcolor | Background color |
| background | Background image |
| bordercolor | The value may be a named color or a hexadecimal value |
| align | Left, right or center. |





Tables

Rows

- Defined by `<TR>` tag. Creates a new row in the defined table
- Attributes:

| | |
|--------|---|
| align | Cell alignment. Left, right or center. |
| valign | to set the vertical alignment of cells in an HTML table. Values top, bottom or middle |



Tables

Table cells

- Each cell is defined by a `<td>` or `<th>` tag
- These tags are similar. `<th>` is used for headers, so the text appears centered by default.

| | |
|-------------|---|
| align | Left, right, center |
| valign | To set the vertical alignment of each cell in an HTML table. Values top, bottom or middle |
| width | Width in pixels or porcentaje |
| colspan | Indicate how many columns should take up |
| bgcolor | Cell background color |
| background | Cell background image |
| bordercolor | Cell border color |
| rowspan | Indicate how many rows should take up |



Tables

Table cells

– Colspam

```
<TABLE BORDER=2 CELLPADDING=4>
<TR> <TH COLSPAN=2 BGCOLOR="#99CCFF">1º CUATRIM</
TH> </TR>
<TR> <TD>ALGEBRA</TD> <TD>1493</TD> </TR>
<TR> <TD>CALCULO</TD> <TD>3829</TD> </TR>
<TR> <TD>INFORMATICA</TD> <TD>0283</TD> </TR>
<TR> <TH COLSPAN=2 BGCOLOR="#99CCFF">2º CUATRIM</
TH> </TR>
<TR> <TD>PSC</TD> <TD>4827</TD> </TR>
<TR> <TD>FISICA</TD> <TD>7246</TD> </TR>
<TR> <TD>QUIMICA</TD> <TD>5689</TD> </TR>
</TABLE>
```

| 1º CUATRIM | |
|-------------|------|
| ALGEBRA | 1493 |
| CALCULO | 3829 |
| INFORMATICA | 0283 |
| 2º CUATRIM | |
| PSC | 4827 |
| FISICA | 7246 |
| QUIMICA | 5689 |



Tables

Table cells

– Rowspan

```
<TABLE BORDER=2 CELLPADDING=4>
<TR> <TH ROWSPAN=2 BGCOLOR="#99CCFF">1º
CUATRIM</TH> </TR>
<TR> <TD>ALGEBRA</TD> <TD>1493</TD> </TR>
<TR> <TD>CALCULO</TD> <TD>3829</TD> </TR>
<TR> <TH ROWSPAN=2 BGCOLOR="#99CCFF">2º
CUATRIM</TH> </TR>
<TR> <TD>PSC</TD> <TD>4827</TD> </TR>
<TR> <TD>FISICA</TD> <TD>7246</TD> </TR>
</TABLE>
```

| | | |
|------------|---------|------|
| 1º CUATRIM | ALGEBRA | 1493 |
| | CALCULO | 3829 |
| 2º CUATRIM | PSC | 4827 |
| | FISICA | 7246 |



Tables

Example

```
<TABLE border="2" align="center" cellspacing="0"
bordercolor="#ff2233" bgcolor="#226677">
  <CAPTION> Primera tabla!!
</CAPTION>
<TR>
  <TD COLSPAN=2>1,1 y 1,2</TD>
  <TD>1,3</TD>
</TR>
<TR>
  <TD ROWSPAN=2>2,1 y 3,1</TD>
  <TD>2,2</TD>
  <TD>2,3</TD>
</TR>
<TR>
  <TD>3,2</TD>
  <TD>3,3</TD>
</TR>
</TABLE>
```

Primera tabla!!

| | | |
|-----------|-----|-----|
| 1,1 y 1,2 | 1,3 | |
| 2,1 y 3,1 | 2,2 | 2,3 |
| | 3,2 | 3,3 |



Table size

- The size of the table could be defined in different unit systems
 - Pixels (NOT RECOMMENDED). Example: width="125px"
 - Relative to the windows size. Example: width="100%"
- Usually it is only necessary to define the global size of the table, leaving the cells without size so they can adjust automatically:

```
<table width="100%">  
<tr>  
  <td>Cell 1</td><td>Cell 2</td>  
</tr>  
</table>
```





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Publishing on the Internet

Public or Private

- An HTML document can be private (it is located inside the personal computer) or public (it is located in a web server connected to the Internet).
- Example of private document: Manuals in a CD-ROM.
 - `file:///D:/Docs/manual.html`
- Example of public document: Any web page accessible by a URL
 - `http://www.iit.upcomillas.es/pdf/MemoIITIng0506.pdf`



Publishing a document

- In order to publish a document, it must be uploaded to a web server.
 - Yahoo offers web space when creating a yahoo.com account
<http://es.geocities.yahoo.com/>
 - Another possibility is to use Comillas' web server. Files can be uploaded through SIFO, then become accessible at:
<http://www.upcomillas.es/zonaalumnos/2008xxxxx/>
- It is necessary to upload the HTML web page along with all the directories and files referred in the web page (ex. images)
- As soon as the web page is uploaded in the server, it becomes accessible to the Internet.



