

Integración de objetos y de multimedia en páginas HTML5

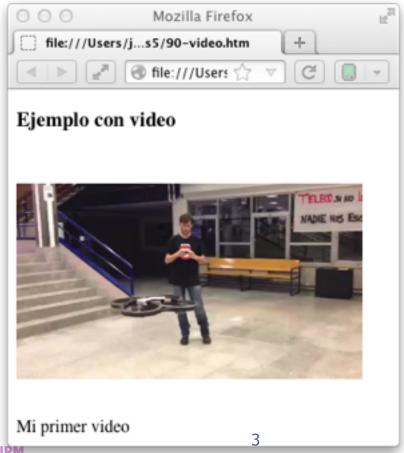
Integrar objetos y recursos externos

- HTML permite insertar recursos externos en una página Web con
 - : imágenes
 - Formato de puntos: JPEG, GIF, PNG, .. (resolución fija)
 - Formato vectorial: SVG, ... (escalables sin perdida de calidad)
 - <video>, <audio>: video y audio
 - No existe acuerdo sobre los formatos a utilizar!!!
 - <iframe>: páginas Web y otros objetos
 - Crea un nuevo marco de navegación Web anidado seguro
 - <object>: objetos. plugins, imágenes
 - Es el mas genérico.
 - <embed>: aplicación exterior, normalmente no-HTML
 - Marca heredada del pasado (Flash), se introdujo como un elemento no estándar
- Permiten integrar (hacer mash-ups) contenidos con gran facilidad
 - http://www.sitepoint.com/add-svg-to-web-page/
 - https://groups.google.com/forum/#!topic/epub-widgets-discuss/JWGV_RPe4H4
 - http://www.w3.org/TR/html5/embedded-content-0.html

Audio y Video en HTML5

- Las marcas audio y video de HTML5
 - Permiten incluir audio y video en páginas Web
 - http://www.w3schools.com/html/html5_video.asp

```
90-video.htm
                                   UNREGISTERED 123
<!DOCTYPE html>
<html>
  <body>
    <h3>Ejemplo con video</h3>
    <video src="CuadricopterM.webm"</pre>
            width="320" height="240"
            controls
            preload
            autoplay>
    </video><br>
    Mi primer video
  </body>
</html>
```



Video: formatos

- Contenedor OGG
 - Video: Theora (VP7), Audio: Vorbis
 - Calidad menor
- Contenedor MP4
 - Video: H264, Audio: ACC
 - Existen Patentes
- Contenedor WebM
 - Video: VP8, Audio: Vorbis

Ogg Theora















WebM



¿Que marca usar?

- - Permite paso de parámetros e interacción con el objeto integrado
 - Tipo mime identifica tipo de objeto: <object type="image/svg+xml" >
- ◆ <iframe>: es la mas segura.
 - Crea una caja de arena (sandbox) y restringe accesos al mismo origen.
 - Protege de acciones hostiles del objeto importado
- ◆ <embed>: marca no estándar heredada de tiempos del Flash.
 - Aunque ha sido incluida en HTML5, su uso no es muy popular.
- ◆ <object>, <iframe> y <embed> pueden usarse con imágenes, video,...
 - El ejemplo siguiente muestra su equivalencia, incluyendo
 - 2 marcos de navegación anidados, uno con <object> y otro con <iframe>
 - 2 videos, uno con <video> y otro con <iframe>
 - 2 imagenes, un SVG animado con <object> y un PNG de baja resolución con



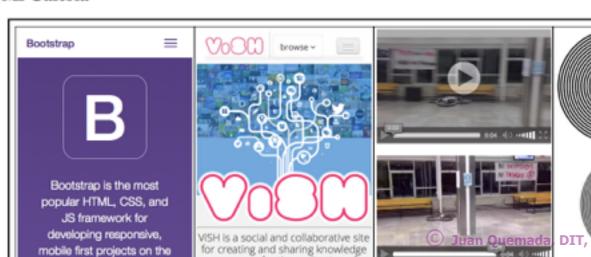


Cursos = Carlos = Cursos = Carsos = Car

Mi Galería

Bootstrap

Mi Galería



Galería

III @ file:///tisers/jg/Desktop/MOOC_node_HTML5/s3/57-galeria/57-galeria.html

Galería

```
§ 57-galeria.htm
<style>
#marco {
    background-color: white:
    padding: 10px;
    margin: 10px;
    border: 3px solid black;
#contenedor {
    display: -webkit-box;
    display: -ms-flexbox;
    display: -webkit-flex;
    display: flex:
    -webkit-flex-wrap: wrap;
    flex-wrap:wrap;
.vertical {
  padding:3px;
  border:1px solid black;
  background-color:white;
  width:300px;
  height: 400px;
.horizontal {
  border:1px solid white;
  background-color:white;
  width:300px;
  height: 196px;
</style>
```

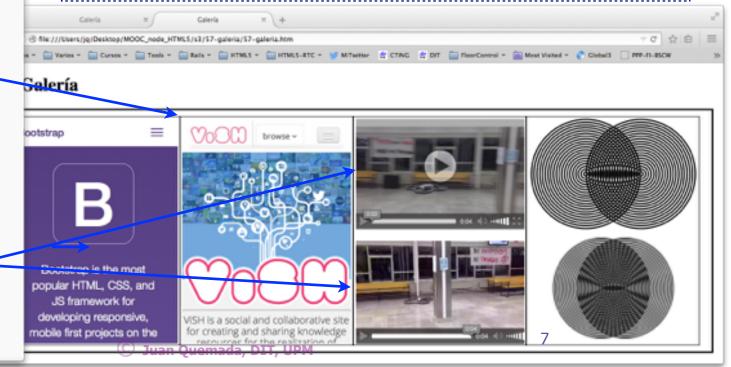
Galería con Flexbox

Flexbox adapta los bloques a la caja con

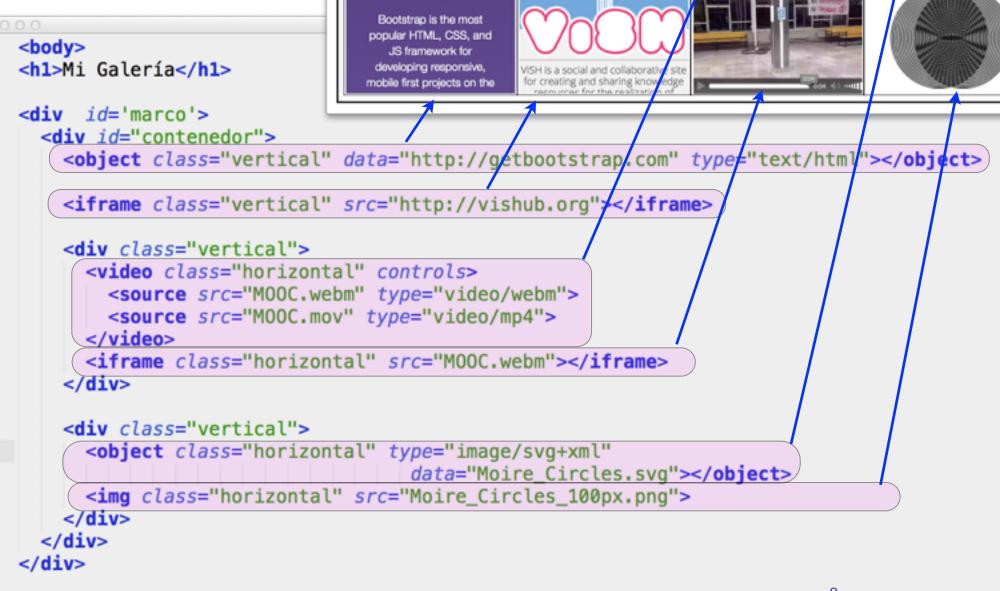
display: flex; // Crece horizontalmente (flex-direction:row) flex-wrap: wrap; // Inserta hasta final y pasa a línea siguiente.

coloca cada bloque vertical a la derecha del anterior si cabe y al llegar al final pasa a la línea siguiente. Utilizan valores por defecto (flex-grow:0, flex-shrink:1, flex-basis:auto).

Cada bloque vertical puede contener a su vez dos bloques horizontales.



Código



HTML - HTML5 Quick Guide

Tag

http://media.smashingmagazine.com/wp-content/uploads/images/html5-cheat-sheet/html5-cheat-sheet.pdf

Attributes*

Page 1 of 4 Quick Reference Guide FREE

Info

HTML 5

Tag	Info	٧	Attributes*
	comment	4 / 5	none
	document type	4 / 5	none
<a>>	hyperlink	4 / 5	href hreflang media ping rel target type
<abbr></abbr>	abbreviation	4 / 5	global attributes**
<acronym></acronym>	acronym	4	-
<address></address>	address ele- ment	4 / 5	global attributes**
<applet></applet>	applet	4	-
<area/>	area inside an image map	4 / 5	alt coords href hreflang media ping rel shape target type
<article></article>	article	5	global attributes**
<aside></aside>	outside the main flow of the narrative	5	global attributes**
<audio></audio>	sound content	5	autobuffer autoplay controls loop src
	bold text	4 / 5	global attributes**
<base/>	base URL for all the page links	4 / 5	href target
<basefont/>	Base font for the document	4	-
<bb></bb>	invoked user agent com- mand	5	type
<bdo></bdo>	direction of text display	4 / 5	dir
 	big text	4	-
<blookquote></blookquote>	long quotation	4 / 5	cite
<body></body>	body element	4 / 5	global attributes**

rag	1010	V	Attributes*
<embed/>	external inter- active content or plugin	5	height src type width
<fieldset></fieldset>	fieldset	4 / 5	disabled form name
<figure></figure>	group of media content, and their caption	5	global attributes**
	text font, size, and color	4	-
<footer></footer>	footer for a section or page	5	global attributes**
<form></form>	form	4 / 5	action data replace accept accept-charset enctype method target
<frame/>	sub window	4	-
<frameset></frameset>	set of frames	4	-
<h1> to <h6></h6></h1>	header 1 to header 6	4 / 5	global attributes**
<head></head>	information about the document	4 / 5	none
<header></header>	header for a section or page	5	global attributes**
<hgroup></hgroup>	heading section	5	global attributes**
<hr/> >	horizontal rule	4 / 5	global attributes**
<html></html>	html document	4 / 5	manifest
<i>></i>	italic text	4 / 5	global attributes**
<iframe></iframe>	inline sub window (frame)	4 / 5	src name sandbox seamless width height
	luan Quema	4 / 5 da, l	alt src height ismap usemap width

Tag	Info	٧	Attributes*
	ordered list	4 / 5	start reversed
<optgroup></optgroup>	option group	4 / 5	disabled label
<option></option>	option in a drop-down list	4 / 5	disabled label selected value
<output></output>	some types of output	5	form
	paragraph	4 / 5	global attributes**
<param/>	parameter for an object	4 / 5	name value
<pre></pre>	preformatted text	4 / 5	global attributes**
<pre><pre><pre><pre><pre><pre><pre><pre></pre></pre></pre></pre></pre></pre></pre></pre>	progress of a task of any kind	5	max value
	short quotation	4 / 5	cite
<ruby></ruby>	ruby annota- tions	5	global attributes**
<rp></rp>	provide paren- theses around a ruby text	5	global attributes**
<rt></rt>	ruby text component	5	global attributes**
<s></s>	strikethrough text	4	-
<samp></samp>	sample com- puter code	4 / 5	global attributes**
<script></td><td>script</td><td>4 / 5</td><td>async type defer src charset</td></tr><tr><td><section></td><td>section</td><td>5</td><td>cite</td></tr><tr><td><select></td><td>selectable list</td><td>4 / 5</td><td>autofocus data disabled form multiple name</td></tr><tr><td><small></td><td>small text</td><td>4/5</td><td>global attributes**</td></tr><tr><td><source></td><td>media re-</td><td>5</td><td>media src type</td></tr></tbody></table></script>			

<pre> <</pre>	iong quotation	4/5	cite
<body></body>	body element	4 / 5	global attributes**
 br>	inserts a single line break	4 / 5	global attributes**
<button></button>	push button	4 / 5	autofocus disabled form formaction formenctype formme- thod formnovalidate formtarget name type value
<canvas></canvas>	Graphic area	5	height width
<caption></caption>	table caption	4 / 5	global attributes**
<center></center>	centered text	4	-
<cite></cite>	citation	4 / 5	global attributes**
<code></code>	computer code text	4 / 5	global attributes**
<col/>	attributes for table columns	4 / 5	span
<colgroup></colgroup>	groups of table columns	4 / 5	span
<command/>	command button	5	checked default disabled hidden icon label radiogroup type
<datagrid></datagrid>	data in a tree, list or tabular	5	disabled
<datalist></datalist>	dropdown list	5	global attributes**
<dd></dd>	definition description	4 / 5	global attributes**
	deleted text	4 / 5	cite datetime
<details></details>	details of an element	5	open
<dialog></dialog>	dialog (conversation)	5	global attributes**
<dir></dir>	directory list	4	-
<div></div>	section in a document	4 / 5	global attributes**
<dfn></dfn>	definition term	4 / 5	title
<dl></dl>	definition list	4 / 5	global attributes**
<dt></dt>	definition term	4 / 5	global attributes**
	emphasized text	4 / 5	global attributes**

4/5 4/5 ut 4 4/5 4/5 4/5 4/5 4/5 5	accept alt auto- complete autofocus checked disabled form formaction formenctype formme- thod formnovalidate formtarget height list max maxlength min multiple name pattern placeholder readonly required size src step type value width cite datetime - global attributes** for global attributes** value href rel media hreflang type sizes global attributes**
ut 4 4/5 4/5 4/5 4/5 4/5	global attributes** for global attributes** value href rel media hreflang type sizes
4/5 m 4/5 4/5 4/5 4/5	for global attributes** value href rel media hreflang type sizes
4 / 5 4 / 5 4 / 5 4 / 5	for global attributes** value href rel media hreflang type sizes
4/5	global attributes** value href rel media hreflang type sizes
4 / 5	value href rel media hreflang type sizes
4 / 5	href rel media hreflang type sizes
	hreflang type sizes
5	global attributes**
4 / 5	id
4 / 5	label type
4 / 5	charset content http- equiv name
	high low max min optimum value
cs 5	global attributes**
on 4	-
on 4/5	none
4 / 5	data height type usemap width object
ŀ	ks 5 on 4 on 4/5

<small></small>	small text	4 / 5	global attributes**
<source/>	media re- sources	5	media src type
	inline section	4 / 5	global attributes**
<strike></strike>	strikethrough text	4	-
	strong text	4 / 5	global attributes**
<style></td><td>style definition</td><td>4 / 5</td><td>media type scoped</td></tr><tr><td><sub></td><td>subscripted text</td><td>4 / 5</td><td>global attributes**</td></tr><tr><td><sup></td><td>superscripted text</td><td>4 / 5</td><td>global attributes**</td></tr><tr><td></td><td>table</td><td>4 / 5</td><td>summary</td></tr><tr><td></td><td>table body</td><td>4 / 5</td><td>global attributes**</td></tr><tr><td>></td><td>table cell</td><td>4 / 5</td><td>colspan rowspan headers</td></tr><tr><th><textarea></th><th>text area</th><th>4 / 5</th><th>autofocus cols disabled form name readonly required rows maxlength </th></tr><tr><th><tfoot></th><th>table footer</th><th>4 / 5</th><th>global attributes**</th></tr><tr><td>></td><td>table header</td><td>4 / 5</td><td>colspan rowspan scope</td></tr><tr><th><thead></th><th>table header</th><th>4 / 5</th><th>global attributes**</th></tr><tr><th><time></th><th>date/time</th><th>5</th><th>datetime pubdate</th></tr><tr><th><title></th><th>document title</th><th>4 / 5</th><th>none</th></tr><tr><td></td><td>table row</td><td>4 / 5</td><td>global attributes**</td></tr><tr><th><tt></th><th>teletype text</th><th>4</th><th>-</th></tr><tr><td><u></td><td>underlined text</td><td>4</td><td>-</td></tr><tr><td></td><td>unordered list</td><td>4 / 5</td><td>global attributes**</td></tr><tr><td><var></td><td>variable</td><td>4 / 5</td><td>global attributes**</td></tr><tr><td><video></td><td>video</td><td>5</td><td>src poster autobuffer autoplay loop controls width height</td></tr><tr><td><xmp></td><td>preformatted text</td><td>4</td><td>-</td></tr></tbody></table></style>			

V = Which version of HTML is this tag valid for

^{*} Attributes: Lists attributes specific to that tag. Deprecated (html4 only) attributes are not listed
*** Global Attributes: class | contenteditable | contextmenu | dir | draggable | id | irrelevant | lang | ref | registrationmark | tabindex | template | title



Final del tema Muchas gracias!

