HTML5
O Futuro da Web
Multimídia sem limites – Senac Consolação
11 de setembro de 2012
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Reinaldo Ferraz
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Apaixonado por acessibilidade, usabilidade, padrões web, HTML, CSS, Star Wars e café.
São Paulo
Um pouco do W3C
O W3C no Brasil
Chamada de cases - Mobile Web

Que tal apresentar sua solução Mobile Web na Conferência Web W3C Brasil 2012?

O W3C Brasil dá a oportunidade a desenvolvedores de aplicativos e soluções para Mobile Web de apresentar seu trabalho na edição 2012 da Conferência Web W3C Brasil.

Submissão de cases

Essa é a chamada de casos de uso em Mobile Web (Web Apps ou Websites para Mobile) que serão selecionados para apresentação durante a 4ª Conferência Web W3C Brasil 2012. Cada trabalho submetido será avaliado por uma comissão julgadora, que selecionará os mais adequados às temáticas e objetivos da Conferência. Serão aceitos cases que sigam adequadamente os padrões web e que estejam disponíveis na web para avaliação da comissão julgadora.
Todos@Web
Prêmio Nacional de Acessibilidade na Web

http://premio.w3c.br/
Tim Berners-Lee criou / propôs

- a Web em 1989 (há 23 anos)
  - (URI + HTTP + HTML)
World Wide Web

The WorldWideWeb (W3) is a wide-area hypermedia information retrieval initiative aiming to give universal access to a large universe of documents.

Everything there is online about W3 is linked directly or indirectly to this document, including an executive summary of the project, Mailing lists, Policy, November's W3 news, Frequently Asked Questions.

What's out there?

- Pointers to the world's online information, subjects, W3 servers, etc.

Help
- on the browser you are using

Software Products
- A list of W3 project components and their current state. (e.g. Line Mode, X11, Viola, NeXTStep, Servers, Tools, Mail robot, Library)

Technical
- Details of protocols, formats, program internals etc

Bibliography
- Paper documentation on W3 and references.

People
- A list of some people involved in the project.

History
- A summary of the history of the project.

How can I help?
- If you would like to support the web.

Getting code
- Getting the code by anonymous FTP, etc.
Tim Berners-Lee criou / propôs

• a Web em 1989 (há 22 anos)
  – (URI + HTTP + HTML)

• o W3C em 1994 (há 18 anos)
  – 01/10/1994 no MIT, Laboratório de Ciência da Computação
Welcome to W3C Discussion Services

The W3C list archives include the following:

- Public lists.
- Member lists.
- Team archives.

admin@w3.org
W3C Social Business Jam: Three-day Online Global Event
28 September 2011 | Archive

W3C announces today its first ever 3-day virtual event, the W3C Social Business Jam, 8-10 November. Participation is free and open to all. Participation in this Jam is intended for individuals and professionals working in businesses or the social business space. If you are passionate about leveraging social capabilities to improve business results or if you want to discuss your ideas on how social technologies offer business value beyond traditional social media approaches, then this Jam is the right place for you. The meeting should produce a better...
HTML5 - Futuro da Web

Futuro da Web – HTML 5

Diagrama de fluxo:

1. **Working Draft**
   - Revisão técnica
   - Revisão técnica

2. **Last Call Working Draft**
   - Revisão técnica

3. **Candidate Recommendation**
   - Revisão técnica, Testes, Implementações Piloto

4. **Proposition Recommendation**
   - Revisão técnica, Testes, Implementações Piloto
   - Aprovação

5. **Proposed edited Recommendation**
   - Aprovação, Implementações Piloto

6. **Recommendation**
   - Aprovação
Tim Berners-Lee criou / propôs

- a Web em 1989 (há 22 anos)
  - [http://www.w3.org/History/1989/proposal.html](http://www.w3.org/History/1989/proposal.html)
  - (URI + HTTP + HTML)

- o W3C em 1994 (há 17 anos)
  - 01/10/1994 no MIT, Laboratório de Ciência da Computação

- Web Semântica
  - 1a. Conferência Internacional WWW – 25 a 27/05/1994
  - [http://www.w3.org/Talks/WWW94Tim/](http://www.w3.org/Talks/WWW94Tim/)
  - 22ª Conferência – Rio de Janeiro - 2013
Plenary at WWW Geneva 94

This is an incomplete collection of slides which I promised to put on the web and didn't get around to for a long while -- sorry! [These are from my talk a the very first International World Wide Web Conference, at CERN, Geneva, Switzerland, in September 1994. This was the conference at which the formation of W3C was announced].

The images are available multiple formats. If you can't see them properly, see the diagnostics page.

W3 future directions

Real Time

on the need for a more collaborative space, with synchronous colaboration and annotation

- Conferencing,
- Internet talk, IRC, MUDDs
- Meet in the library
Preliminary Call for Papers

Monday, August 13, 2012

For more than two decades, the International World-Wide Web Conference has been the premier venue for researchers, academics, businesses, and standard bodies to come together and discuss latest updates on the state and evolutionary path of the Web. The main conference program of WWW 2013 will have 12 tracks (or themes) for refereed paper presentations and we invite you to submit your cutting-edge, exciting new breakthrough work. In addition to the main conference, WWW 2013 will have a series of co-located workshops, keynote speakers, tutorials, panels, a developersâ€™ track, and a poster and demo session.

The CfP will be updated later with more detailed info about individual tracks, their topics and program committee members. The conference web site (www2013.org) will be updated regularly and monthly newsletters will keep you current with the latest information.

Important Dates
Futuro da Web

Web browsers
dados
linkados

Motores
de busca

Mashups de
dados
linkados

RDF +
HTML5

dados

dados

dados

dados

dados

HTTP

link de
dados

link de
dados

link de
dados

link de
dados

HTTP

A

B

C

D

E

URI
WEB 2001

User Interface Components

Browser
Memory Model (DOM, script engine)

Network API
XHR

Script

DOM
HTML
texto
forms

CSS
estilo

Apresentação
screen, audio, haptic, etc.

Dispositivos
Mouse, Touch

Usuário
WEB 2011
HTML4 – XHTML – HTML5
HTML 5 [HyperText Markup Language]

1991 – html tag – Tim Berners Lee
1994 – HTML 2 - já incluia tag <img>
1997 – HTML 3.2
1999 – HTML 4.01
2000 – XHTML 1.0
2001 – XHTML 1.1 – CSS
20... – Ian Hickson (Opera) propõe estender HTML: Web Forms 2.0, Web Apps 1.0
2004 – Apple, Mozilla e Opera criam WHAT WG (Web Hypertext Application Technology Working Group)
2007 – W3C retorna HTML Working Group
2009 – W3C descontinua XHTML
2010-2011 – Apple, Google, Microsoft, Mozilla e Opera implementam HTML5
proposed new tag: IMG

Marc Andreessen (marca@ncsa.uiuc.edu)
Thu, 25 Feb 93 21:09:02 -0800

* Messages sorted by: [ date ][ thread ][ subject ][ author ]
* Next message: Tony Johnson: "Re: proposed new tag IMG"
* Previous message: Bill Janssen: "Re: xmosaic experience"
* Next in thread: Tony Johnson: "Re: proposed new tag IMG"

I'd like to propose a new, optional HTML tag:

IMG

Required argument is SRC="url".

This names a bitmap or pixmap file for the browser to attempt to pull over the network and interpret as an image, to be embedded in the text at the point of the tag's occurrence.

An example is:

<IMG SRC="file://foobar.com/foo/bar/blargh.xbm">

(There is no closing tag; this is just a standalone tag.)

This tag can be embedded in an anchor like anything else; when that happens, it becomes an icon that's sensitive to activation just like a regular text anchor.
A suggestion for alt text.

Daniel N. Wood (dwood@cory.eecs.berkeley.edu)
Sat, 15 Apr 1995 18:10:36 +0500

- Messages sorted by: [ date ][ thread ][ subject ][ author ]
- Next message: ADMINISTRATOR ROUTER@occs.nsh.nln.gov: "ERROR REPLY."
- Previous message: Martian: "Re: Word wrapping"

I would like to suggestion an addition to the FIG tag. (And perhaps the IMG tag.)

It seems to me that there are two common scenarios for alt text:

1) The alt text is a perfect substitute for the image. For example:

Replace IBM's logo with the word IBM.
Alt text for some sort of fancy graphical title or headline.
A set of hyperlinks which duplicate the function of an image map.

2) The alt text describes the image. For example:

A photo of me.
An image map that is a _real_ map.
Charts or figures.

Wouldn't it be valuable to distinguish between these two cases?

This would allow a more advanced `delayed image loading' for people on slow links or strange hardware. I am sure there are other uses as well.
[whatwg] Video (Was: How not to fix HTML)

Ian Hickson ian at hixie.ch
Mon Oct 30 14:49:52 PST 2006

- Previous message: [whatwg] How not to fix HTML
- Next message: [whatwg] Video (Was: How not to fix HTML)
- Messages sorted by: [ date ] [ thread ] [ subject ] [ author ]

On Mon, 30 Oct 2006, Charles Iliya Krempeaux wrote:
> Would you be open to hearing suggestions about how to add native video
> and video player support?

Sure. FWIW, there's a lot of interest in browser vendors about introducing
a <video> element or some such (or maybe making browsers natively support
video in <object>, or both).

(What's most needed right now in this area is probably implementation
experience.)

--
Ian Hickson U+1047E \_\_\-,--...,',`` fL
http://ln.hixie.ch/ U+263A /, _.. \_ \_ `:\_.

Things that are impossible just take longer. `._-(,..'--(,..)`--';..'}
3 grandes atores da web
Futuro da Web - HTML5
Html5test.com
Exemplos
Futuro da Web - HTML5
- Web
- Interoperabilidade
- Geolocalização
- Áudio e Vídeo além da TV
- Comandos de voz
- ...

Futuro da Web - HTML5
Facilidade para o desenvolvedor
DOCTYPE
Doctype:

HTML4
<!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 4.01//EN"
"http://www.w3.org/TR/html4/strict.dtd">

<!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN"
"http://www.w3.org/TR/html4/loose.dtd">

XHTML
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Strict//EN"
"http://www.w3.org/TR/xhtml1/DTD/xhtml1-strict.dtd">

<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN"
"http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">
<!DOCTYPE html>
Formulários

Address

Street Address

Address Line 2

Submit
<table>
<thead>
<tr>
<th>Keyword</th>
<th>State</th>
<th>Data type</th>
<th>Control type</th>
</tr>
</thead>
<tbody>
<tr>
<td>hidden</td>
<td>Hidden</td>
<td>An arbitrary string</td>
<td>n/a</td>
</tr>
<tr>
<td>text</td>
<td>Text</td>
<td>Text with no line breaks</td>
<td>Text field</td>
</tr>
<tr>
<td>search</td>
<td>Search</td>
<td>Text with no line breaks</td>
<td>Search field</td>
</tr>
<tr>
<td>tel</td>
<td>Telephone</td>
<td>Text with no line breaks</td>
<td>A text field</td>
</tr>
<tr>
<td>url</td>
<td>URL</td>
<td>An absolute IRI</td>
<td>A text field</td>
</tr>
<tr>
<td>email</td>
<td>E-mail</td>
<td>An e-mail address or list of e-mail addresses</td>
<td>A text field</td>
</tr>
<tr>
<td>password</td>
<td>Password</td>
<td>Text with no line breaks (sensitive information)</td>
<td>Text field that obscures data entry</td>
</tr>
<tr>
<td>datetime</td>
<td>Date and Time</td>
<td>A date and time (year, month, day, hour, minute, second, fraction of a second) with the time zone set to UTC</td>
<td>A date and time control</td>
</tr>
<tr>
<td>date</td>
<td>Date</td>
<td>A date (year, month, day) with no time zone</td>
<td>A date control</td>
</tr>
<tr>
<td>month</td>
<td>Month</td>
<td>A date consisting of a year and a month with no time zone</td>
<td>A month control</td>
</tr>
<tr>
<td>week</td>
<td>Week</td>
<td>A date consisting of a week-year number and a week number with no time zone</td>
<td>A week control</td>
</tr>
<tr>
<td>time</td>
<td>Time</td>
<td>A time (hour, minute, seconds, fractional seconds) with no time zone</td>
<td>A time control</td>
</tr>
<tr>
<td>datetime-local</td>
<td>Local Date and Time</td>
<td>A date and time (year, month, day, hour, minute, second, fraction of a second) with no time zone</td>
<td>A date and time control</td>
</tr>
<tr>
<td>number</td>
<td>Number</td>
<td>A numerical value</td>
<td>A text field or spinner control</td>
</tr>
<tr>
<td>range</td>
<td>Range</td>
<td>A numerical value, with the extra semantic that the exact value is not important</td>
<td>A slider control or similar</td>
</tr>
<tr>
<td>color</td>
<td>Color</td>
<td>An sRGB color with 8-bit red, green, and blue components</td>
<td>A color well</td>
</tr>
<tr>
<td>checkbox</td>
<td>Checkbox</td>
<td>A set of zero or more values from a predefined list</td>
<td>A checkbox</td>
</tr>
<tr>
<td>radio</td>
<td>Radio Button</td>
<td>An enumerated value</td>
<td>A radio button</td>
</tr>
<tr>
<td>file</td>
<td>File Upload</td>
<td>Zero or more files each with a MIME type and optionally a file name</td>
<td>A label and a button</td>
</tr>
<tr>
<td>submit</td>
<td>Submit Button</td>
<td>An enumerated value, with the extra semantic that it must be the last value selected and initiates form submission</td>
<td>A button</td>
</tr>
<tr>
<td>image</td>
<td>Image Button</td>
<td>A coordinate, relative to a particular image's size, with the extra semantic that it must be the last value selected and initiates form submission</td>
<td>Either a clickable image, or a button</td>
</tr>
<tr>
<td>reset</td>
<td>Reset Button</td>
<td>n/a</td>
<td>A button</td>
</tr>
<tr>
<td>button</td>
<td>Button</td>
<td>n/a</td>
<td>A button</td>
</tr>
</tbody>
</table>
Novidades nos formulários

<SCRIPT LANGUAGE="JavaScript">
<!-- www.ruajava.kit.net -->
<!-- Begin
var now = new Date();
var month_array = new Array("Janeiro","Fevereiro","Março","Abril","Maio","Junho","Julho","Agosto","Setembro","Outubro","Novembro","Dezembro");
document.write("<form name=date_list><table bgcolor=silver><tr><td>");
document.write("<select name=month onchange=change_month(this.options.selectedIndex)>");
for(i=0;i<month_array.length;i++)
{
if (now.getMonth() != i)
{document.write("<option value="+i+">"+month_array[i]);}
else
{document.write("<option value="+i+" selected>"+month_array[i]);}
}
document.write("</select>");
document.write("</form><tr><td>");
document.write("<select name=year onchange=change_year(this.options[this.options.selectedIndex])>");
for(i=1950;i<3000;i++)
{
if (now.getYear() != i)
{document.write("<option value="+i+">"+i);}
else
{document.write("<option value="+i+" selected">"+i);}
}
document.write("</select>");
document.write("</form><td></td></tr><tr><td colspan=2><center>");
document.write("<table bgcolor=white border=0 cellspacing = 0 cellpading = 0 width=100%><tr bgcolor=gray align=center>");
document.write("<td><font color=silver>S</font></td><td><font color=silver>T</td><td><font color=silver>Q</td><td><font color=silver>Q</td><td><font color=silver>S</td><td><font color=silver>S</td><td><font color=silver>D</td>");
document.write("</tr><tr>");
for(j=0;j<6;j++)
{
for(i=0;i<7;i++)
{
document.write("<td align=center id=d"+i+"r"+j+""></td>")
}
document.write("</tr>");
}
document.write("</table>" unparsed="true">")
var show_date = new Date();
function set_cal(show_date)
{
begin_day = new Date (show_date.getYear(),show_date.getMonth(),1);
begin_day_date = begin_day.getDay();
end_day = new Date (show_date.getYear(),show_date.getMonth()+1,1);
count_day = (end_day - begin_day)/1000/60/60/24;
input_table(begin_day_date,count_day);
}
set_cal(show_date);
function input_table(begin,count)
{
init();
j=0;
if (begin!=0){i=begin - 1;}else{i=6}
for (c=1;c<count+1;c++)
{
colum_name = eval("d"+i+"r"+j);
if ((now.getDate() == c)&&(show_date.getMonth() == now.getMonth())&&(show_date.getYear() == now.getYear()))
{colum_name.style.backgroundColor = "blue";colum_name.style.color = "white";};
colum_name.innerText =  c;
i++;
if (i==7){i=0;j++;}
}
}
function init()
{
for(j=0;j<6;j++)
{
for(i=0;i<7;i++)
{
colum_name = eval("d"+i+"r"+j);
colum_name.innerText =  "-";
colum_name.style.backgroundColor = "";
colum_name.style.color = "";
}
}
}
function change_month(sel_month)
{
show_date = new Date(show_date.getYear(),sel_month,1);
set_cal(show_date);
}
function change_year(sel_year)
{
if (sel_year) sel_year = sel_year.value;
show_date = new Date(sel_year,show_date.getMonth(),1);
set_cal(show_date);
}
// End
</script>
<!-- --><script size="3.64 KB"></script>
Novidades nos formulários

```html
<input type="date" />
<input type="datetime" />
<input type="datetime-local" />
```
Speech

http://lists.w3.org/Archives/Public/public-xg-htmlspeech/2011Feb/att-0020/api-draft.html

<input type="text" x-webkit-speech />
Exemplos
Geolocalização
Exemplos
[Water dropping and clock ticking]
[plop, plop, plop, ...]
[tick, tick, tick, ...]
**HTML 5 [HyperText Markup Language]**

<table>
<thead>
<tr>
<th>Codecs/Container</th>
<th>IE</th>
<th>Firefox</th>
<th>Safari</th>
<th>Chrome</th>
<th>Opera</th>
<th>iPhone</th>
<th>Android</th>
</tr>
</thead>
<tbody>
<tr>
<td>Theora+Vorbis+Ogg</td>
<td>-</td>
<td>3.5+</td>
<td>-</td>
<td>5.0+</td>
<td>10.5+</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>H.264+AAC+MP4</td>
<td>9.0+</td>
<td>-</td>
<td>3.0+</td>
<td>-</td>
<td>3.0+</td>
<td>2.0+</td>
<td></td>
</tr>
<tr>
<td>WebM</td>
<td>9.0+</td>
<td>4.0+</td>
<td>-</td>
<td>6.0+</td>
<td>10.6+</td>
<td>-</td>
<td>?</td>
</tr>
</tbody>
</table>
Exemplos
<svg xmlns="http://www.w3.org/2000/svg" version="1.1">
  <polygon points="100,10 40,180 190,60 10,60 160,180 100,10" style="fill:lime;stroke:purple;stroke-width:5;fill-rule:nonzero;"/>
</svg>
Canvas

<canvas id="theapt" width="100" height="100">
<div class="warning">Diese Seite wurde mit Hilfe der neuesten HTML 5-Technik programmiert und lässt sich daher nur auf neueren Browser-Versionen ansehen. Browser, die dieses Feature unterstützen sind z.B. FireFox 3.5, Safari, Opera oder Chrome. Sie können sich diese Browser kostenlos herunterladen.</div>
</canvas>
WebGL - Exemplos
Semântica

Os novos elementos
HTML 5 [HyperText Markup Language]

HTML4 + CSS
HTML 5 [HyperText Markup Language]

Novos elementos (semânticos)

HTML5 + CSS
E o que ficou de fora do HTML5?
abbr, **align**, allowtransparency, archive, background, bgcolor, **border**, cellspacing, classid, clear, code, codetype, color, compact, frameborder, **height**, hspace, link, marginbottom, marginheight, marginleft, **marginright**, margintop, marginwidth, noshade, **nowrap**, profile, rev, rules, scheme, scrolling, size, standby, target, text, urn, **valign**, valuetype, version, vlink, vspace, **width**
abbr, **align**, allowtransparency, archive, background, border, cellspacing, classid, clear, color, compact, frameborder, face, link, marginbottom, marginleft, marginright, marginwidth, noshade, noresize, rules, scheme, scrolling, size, text, urn, **valign**, valuetype, version, vlink, vspace, **width**
HTML 5 [HyperText Markup Language]

- [http://www.whatwg.org/](http://www.whatwg.org/)
- [http://www.w3.org/2009/03/web-demo.xhtml](http://www.w3.org/2009/03/web-demo.xhtml)
- [http://www.w3.org/html/wiki/Demos](http://www.w3.org/html/wiki/Demos)
- [http://www.w3.org/html/planet/](http://www.w3.org/html/planet/)
- [http://www.w3.org/html/logo/](http://www.w3.org/html/logo/)
- [http://www.w3.org/TR/ttaf1-dfxp/](http://www.w3.org/TR/ttaf1-dfxp/)
- [http://www.w3c.br/Cursos/](http://www.w3c.br/Cursos/)
http://www.w3.org/2011/Talks/0504-html5-plh/video-player.xhtml
http://scriptdraw.com/editor-split.html
http://html5demos.com/geo
http://demo.tutorialzine.com/2012/05/weather-forecast-geolocation-jquery/
http://158.109.70.57/svg/final/svg_subtitles.html
http://dmv.nodejitsu.com/
http://shinydemos.com/3d-color-histogram/
http://airtightinteractive.com/demos/js/webcammesh/
http://danielfilho.info/presentations/gum/motion/
http://neave.com/webcam/html5/
http://balldroppings.com/js/
http://apirogov.github.com/JSnake
http://chrome.angrybirds.com/
http://hexgl.bkcore.com/
http://media.tojicode.com/q3bsp/
https://developer.mozilla.org/media/uploads/demos/T/h/ThiagoMunhoz/60b0b35dbca3a2fde05ea395a718663b/pure-css3-south-park_1345222043/demo_package/index.html
https://developer.mozilla.org/media/uploads/demos/L/F/LFeh/676da0435f2fd4a2300902c3b810504e/pure-css3-eric-cartm_1346873179/demo_package/index.html
Reinaldo Ferraz
W3C Escritório Brasil
www.w3c.br
Twitter: @w3cbrasil
reinaldo@nic.br
Twitter: @reinaldoferraz