

HTML



HTML5

O Futuro da Web

Multimídia sem limites – Senac Santo André

05 de outubro de 2011

Reinaldo Ferraz – W3C.br



É um consórcio internacional, que conta com:

- organizações filiadas,
- uma equipe em tempo integral,
- participação do público

para colaborativamente desenvolver padrões universais para a Web.

O escritório brasileiro começou suas atividades em outubro de 2007.

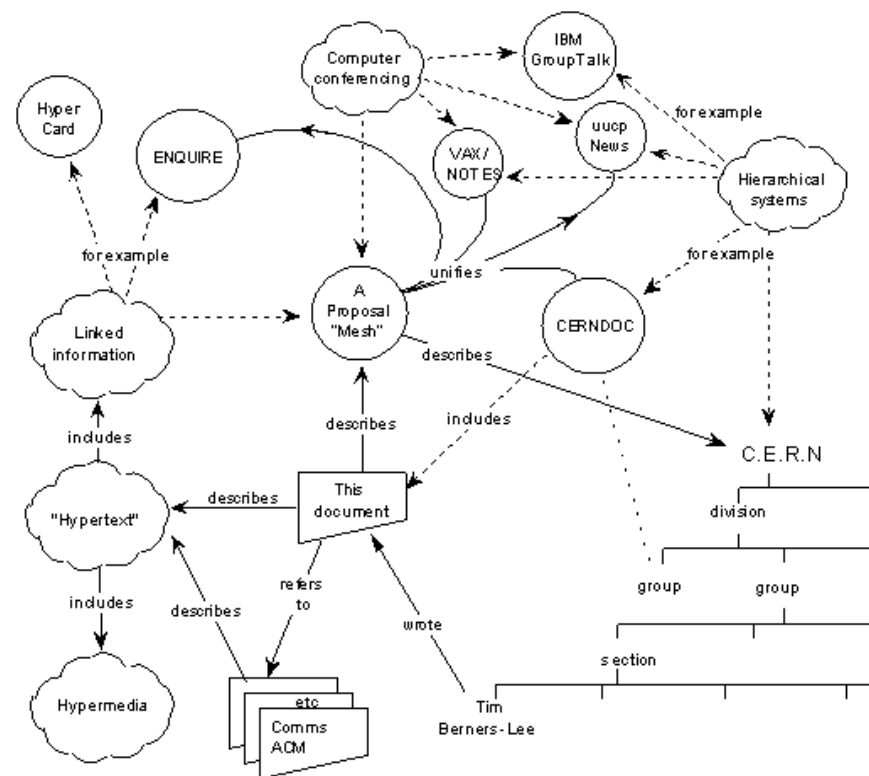
É uma iniciativa do **CGI.br**, que é o responsável por coordenar e integrar as iniciativas de serviços da Internet no País e do **NIC.br**, criado para implementar as decisões e os projetos do Comitê Gestor da Internet no Brasil.

cgi.br nic.br

cgi.br nic.br

Tim Berners-Lee criou / propôs

- a Web em 1989 (há 22 anos)
 - <http://www.w3.org/History/1989/proposal.html>
 - (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 ?](#)

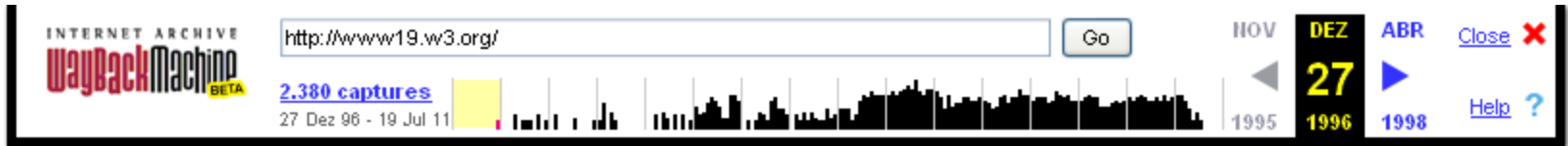
If you would like to support the web..

[Getting code](#)

Getting the code by [anonymous FTP](#) , etc.

Tim Berners-Lee criou / propôs

- a Web em 1989 (há 22 anos)
 - <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



INTERNET ARCHIVE
WayBackMachine BETA

2.380 captures
27 Dez 96 - 19 Jul 11

NOV DEZ ABR
1995 27 1996 1998

[Close](#)
[Help](#)



Welcome to W3C Discussion Services

The W3C list archives include the following:

- [Public](#) lists.
 - [Member](#) lists.
 - [Team](#) archives.
-

admin@w3.org

STANDARDS ☰

[Web Design and Applications](#)[Web Architecture](#)[Semantic Web](#)[XML Technology](#)[Web of Services](#)[Web of Devices](#)[Browsers and Authoring Tools](#)[... or view all](#)

▼ 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

The World Wide Web Consortium (W3C) is an international community that develops open [standards](#) to ensure the long-term growth of the Web. Read about the [W3C mission](#).

JOBS ☰

[Marketing and Communications for W3C Business Development](#)[Web Accessibility Engineer](#)

W3C BLOG ☰

Tim Berners-Lee criou / propôs

- a Web em 1989 (há 22 anos)
 - <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/>
 - 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 at 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 in 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 collaboration and annotation

- Conferencing,
- Internet talk, IRC, MUDDs
- Meet in the library



16th - 20th April 2012

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In partnership with



Keynote speakers announcement :

- Neelie Kroes
- Tim Berners-Lee
- Bernard Stiegler

W4A conference co-located 16th - 17th April.

Calls for contributions are being published.

- ▶ Please visit the **Submit** top button and its sub-menus, and/or access directly to the **full list of calls for papers**

Twitter - about www2012

rainer 1 hours 53 minutes ago
RT @Sara... #www2012 conference

Contribute to www2012 organisation:

Conduzir a World Wide Web para que atinja todo seu potencial, desenvolvendo protocolos e diretrizes que garantam seu crescimento de longo prazo.

Conduzir a World Wide Web para que atinja todo seu potencial, desenvolvendo protocolos e diretrizes que garantam seu crescimento de longo prazo.

Desde sua fundação, o W3C publicou mais de uma centena de padrões, denominados

[Recomendações do W3C](#)

Web Standards – Padrões Web

- Web para todos

Tornar os benefícios da web (seu valor social: comunicação humana, comércio, compartilhar conhecimentos) disponíveis a todos, independente de



- Hardware
- Software
- Infraestrutura de rede
- Idioma
- Cultura
- Localização geográfica
- Habilidade física
- Habilidade mental

- Web para todos
- Web em qualquer dispositivo

- Web em qualquer dispositivo

Possibilitar que o acesso de qualquer tipo de dispositivo seja tão simples, fácil e conveniente quanto de um computador convencional



- Computadores

- Desktops

- Netbooks

- Telefones

- PDAs

- TV digital

- Sistemas de interação por voz

- Aparelhos domésticos

- ... web ubíqua

- Web base de conhecimento

Não apenas um grande livro hiperlinkado onde pessoas possam pesquisar, navegar, visualizar e **ler** informações



Possibilitar que computadores interpretem, estabeleçam inferências e relações na web

Interoperabilidade

– Web Semântica

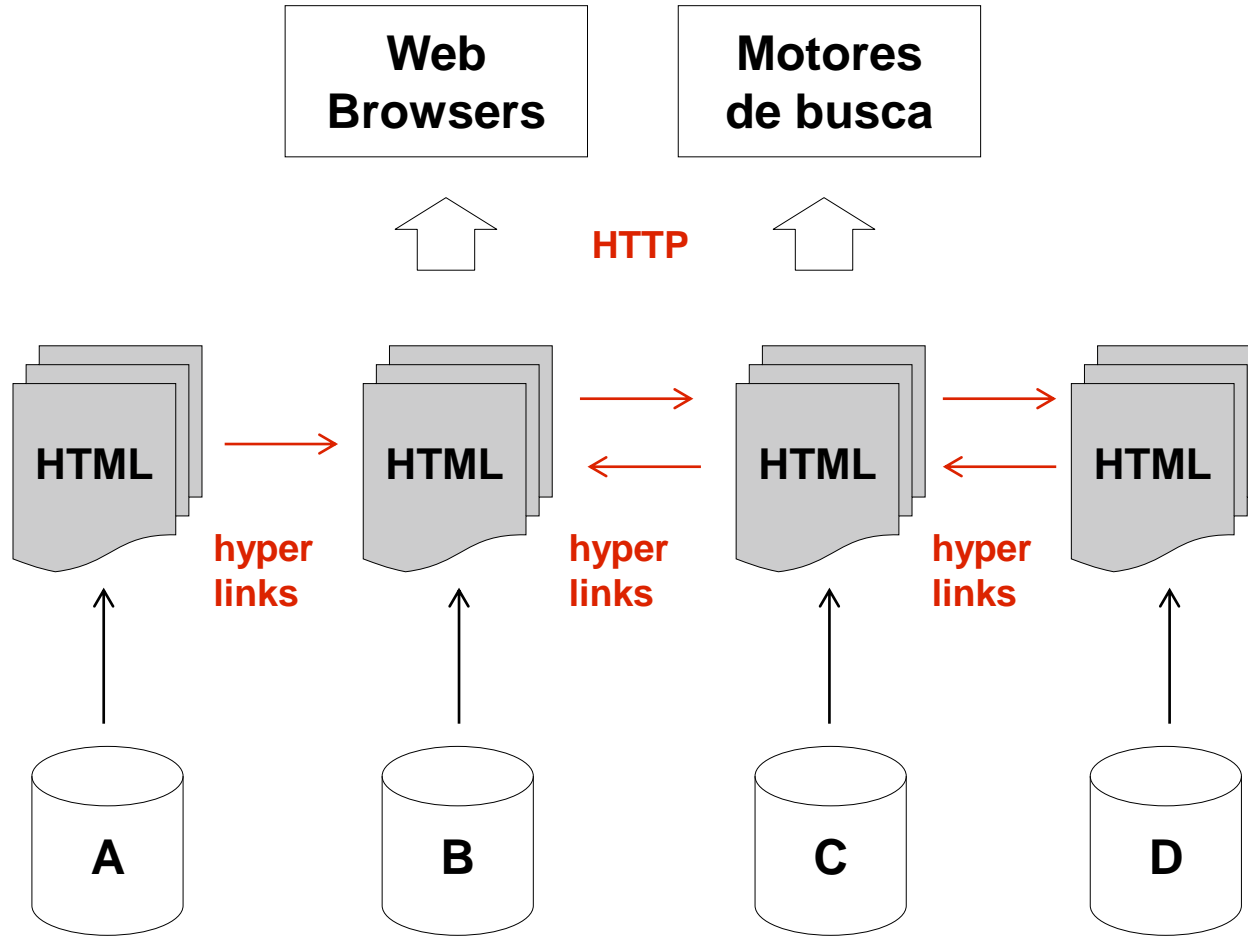
- Web para todos
- Web em qualquer dispositivo
- Web base de conhecimento
- Web confiável e segura

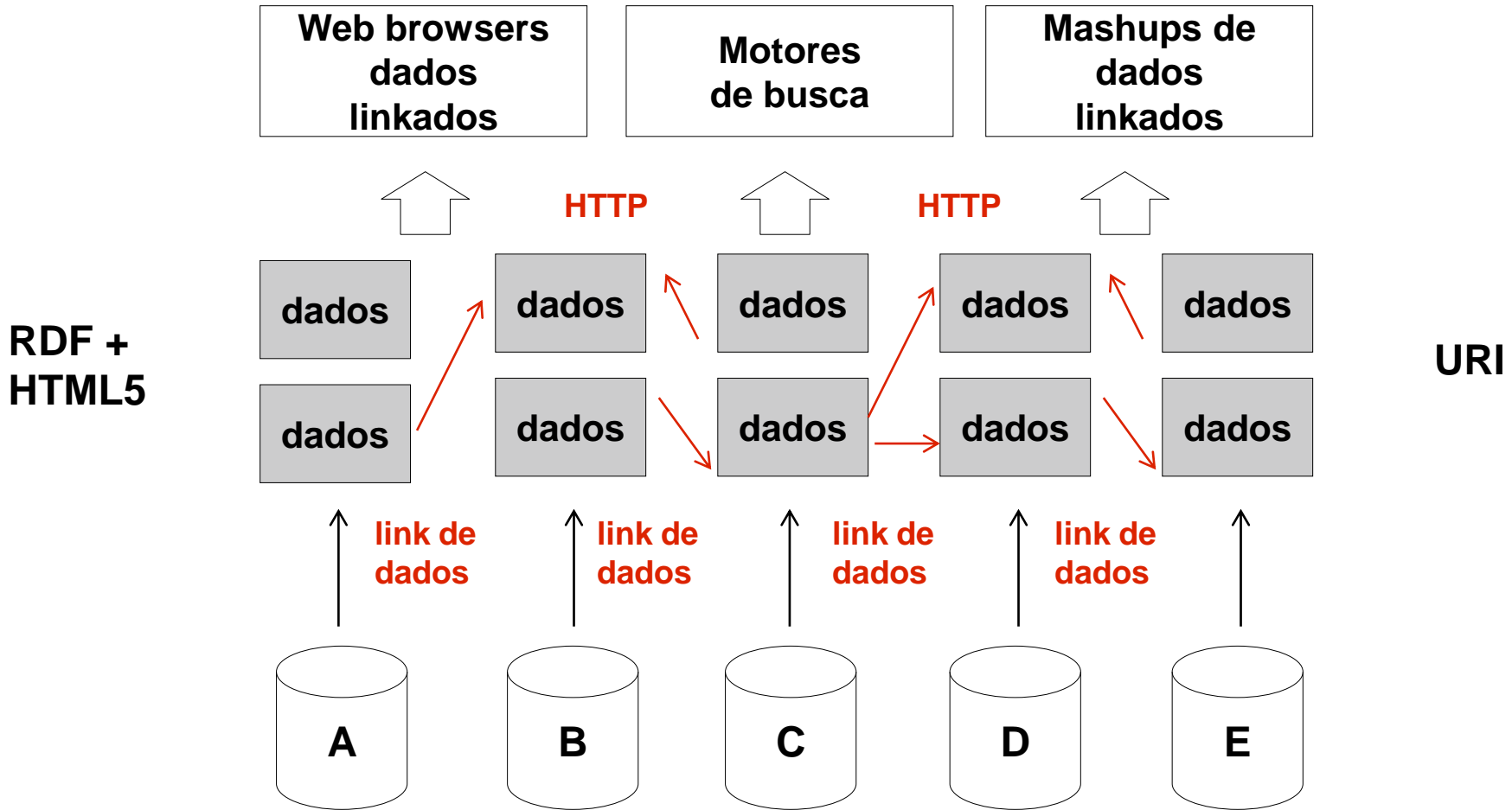
- Web confiável e segura

Uma web em que as transações sociais e comunicações com terceiros sejam estabelecidas em relações de confiança, por pessoas, organizações ou serviços

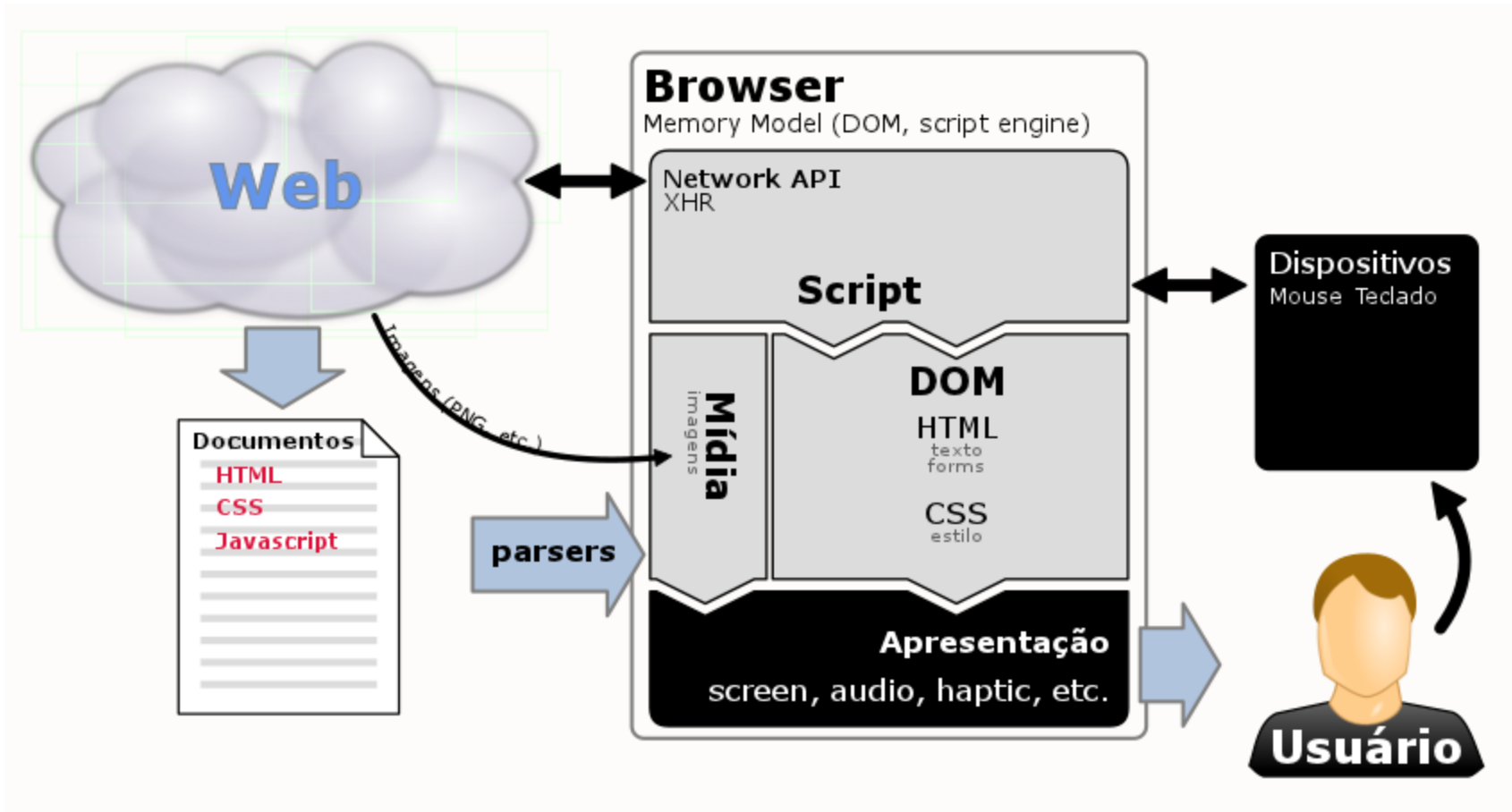


- Ambiente mas colaborativo
- responsável
- seguro
- Confiança e Confidência

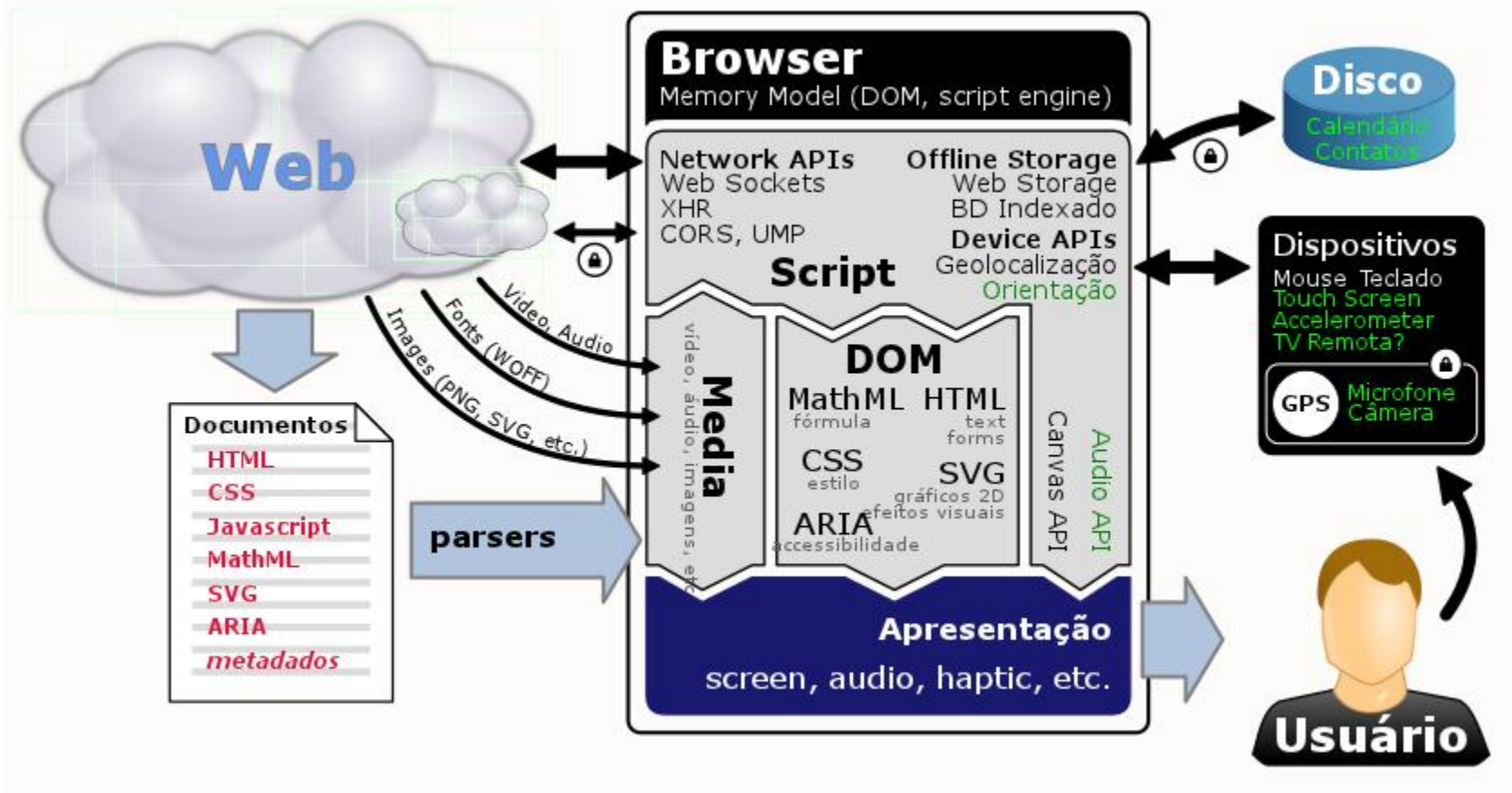




WEB 2001



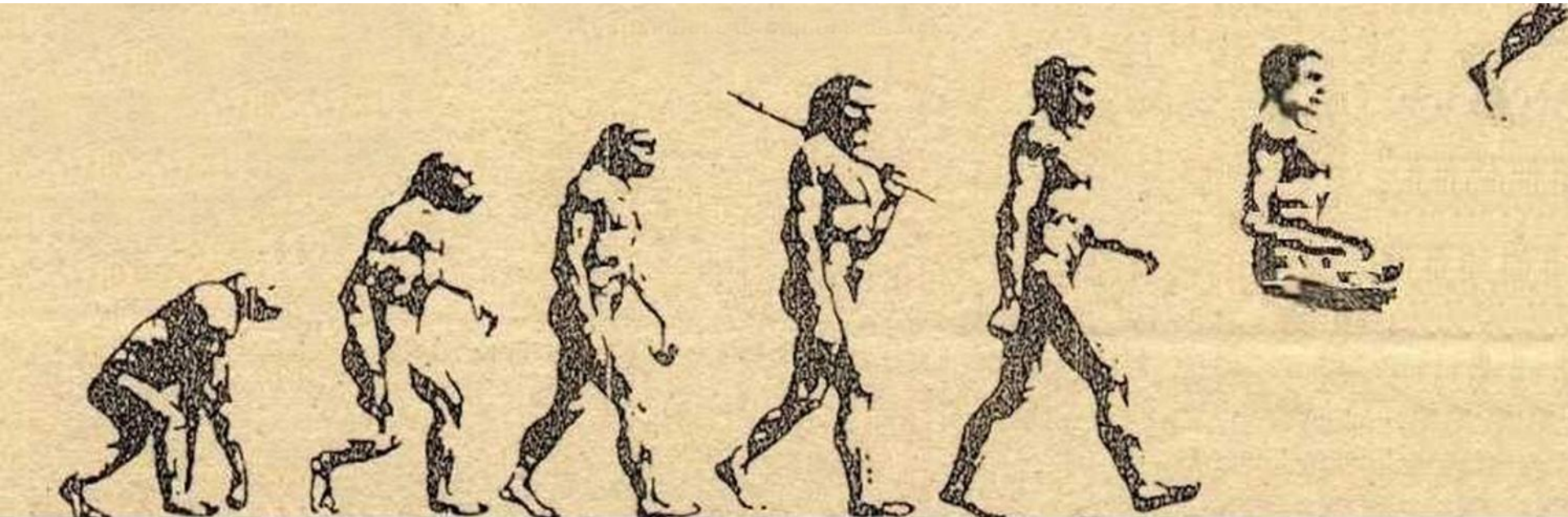
WEB 2011



HTML



HTML4 – XHTML – HTML5





HTML 5 [HyperText Markup Language]

- 1991 – html tag – Tim Berners Lee
- 1994 – HTML 2 - já incluía tag
- 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@occhost.nlm.nih.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](mailto:ian@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.

`._-(,_.!--(,_.!--:;'

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

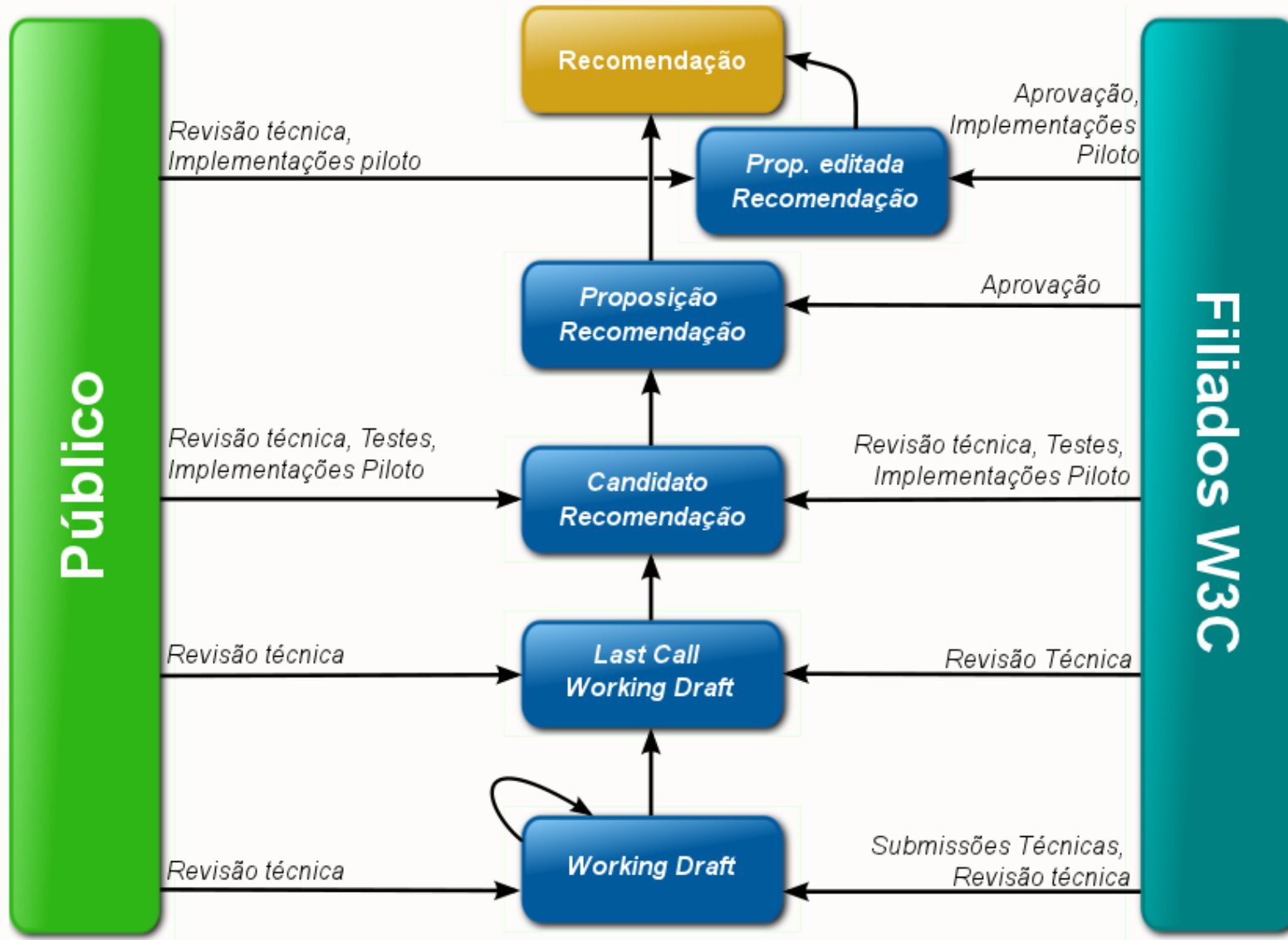
HTML 5 [HyperText Markup Language]

Maio/2011 – Last Call



Processo W3C padronização :

- *Working Draft* (Rascunho de Trabalho)
 - **Last Call**
- *Candidate Recommendation* (Candidato a Recomendação):
 - **Chamada para implementação**
- *Proposed Recommendation* (Proposta de Recomendação):
 - **Chamada para revisão de proposta de recomendação**
- *W3C Recommendation* (Recomendação W3C):
 - **Publicação da recomendação**





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!>

Address

Street Address

Address Line 2

Formulários

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

Novidades nos formulários

```
<form>
```

```
<label>
```

```
Nome <input type="text" name="nome" placeholder="digite seu nome" required />
```

```
</label>
```

```
<label>
```

```
E-mail <input type="email" name="email" placeholder="digite seu e-mail" required />
```

```
</label>
```

```
Website <input type="url" name="website" required />
```

```
</label>
```

```
<label>
```

```
Escolha a cor <input type="color" name="color" />
```

```
</label>
```

```
<label>
```

```
Data de destino <input type="datetime" name="date" />
```

```
</label>
```

```
<input type="submit">
```

```
</form>
```

Speech

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



Type	Image Name	Code	Image Name	Subcode	Image Name	Down
Dashboard vertical nav	but_arrow_cold.png		but_arrow_hot.png		but_arrow_down.png	
Calendar Edit (Scheduled content)	but_edit_cold.png		but_edit_hot.png		but_edit_down.png	
Calendar View (List content)	but_view_cold.png		but_view_hot.png		but_view_down.png	
Privileges & partner pages when section is closed	but_add_cold.png		but_add_hot.png		but_add_down.png	
Privileges & partner pages when section is open	but_delete_cold.png		but_delete_hot.png		but_delete_down.png	
Dashboard horizontal nav	but_arrow_right_cold.png		but_arrow_right_hot.png		but_arrow_right_down.png	
Dashboard horizontal nav	but_arrow_left_cold.png		but_arrow_left_hot.png		but_arrow_left_down.png	
Create/SAB Campaign graphs for setting alert's directory page to 'public'	but_public_down.png		but_public_hot.png		but_public_cold.png	
or 'private'	but_private_cold.png		but_private_hot.png		but_private_down.png	
Upload photo	but_upload.gif					
Save email	but_save_cold.png		but_save_hot.png		but_save_down.png	

TABELAS

Upload Audio	but_upload_cold.png		but_upload_hot.png		but_upload_down.png	
Go	but_go_cold.png		but_go_hot.png		but_go_down.png	
Upload Hints	but_uploadhint_cold.png		but_uploadhint_hot.png		but_uploadhint_down.png	
Upload Content	but_uploadcontent_cold.png		but_uploadcontent_hot.png		but_uploadcontent_down.png	
Text Audio By Phone	but_textaudio_cold.png		but_textaudio_hot.png		but_textaudio_down.png	
Send Text Message	but_sendTextMessage_cold.png		but_sendTextMessage_hot.png		but_sendTextMessage_down.png	
Play Audio	but_playAudio_cold.png		but_playAudio_hot.png		but_playAudio_down.png	
Submit	but_submit_cold.png		but_submit_hot.png		but_submit_down.png	
Save for Later	but_saveforLater_cold.png		but_saveforLater_hot.png		but_saveforLater_down.png	
Delete Message	but_deletemessage_cold.png		but_deletemessage_hot.png		but_deletemessage_down.png	
Export Job	but_exportjob_cold.png		but_exportjob_hot.png		but_exportjob_down.png	
Get Alert	but_getAlert_cold.png		but_getAlert_hot.png		but_getAlert_down.png	

“As **tabelas não devem ser utilizadas como auxiliares de layout**. Historicamente, alguns autores têm abusado das tabelas em HTML, como forma de controlar o seu layout de página. Esse uso não é recomendado, porque as ferramentas que tentam extrair os dados tabulares de tais documentos obtém resultados confusos. Em particular, os usuários de **ferramentas de acessibilidade**, como leitores de tela podem achar muito difícil de navegar em páginas com tabelas usadas para layout.”

<http://www.w3.org/TR/html5/tabular-data.html#the-table-element>

Não utilize tabelas para layout



Elas não foram feitas para isso.

Video



HTML 5 [HyperText Markup Language]

VÍDEO



```
<video id='VideoResource' style='border: black 1px solid; margin-left: 4px; margin-top: 4px; margin-bottom: 0px;' poster='/2009/04/coffee.png'>
```

```
<source src="http://media.w3.org/2009/02/ThisisCo1961_tiny.mp4" type="video/mp4"/>
```

```
<source src="http://media.w3.org/2009/02/ThisisCo1961_tiny.ogv" type="video/ogg"/>
```

```
<text lang='en' type="application/ttaf+xml" src="/2009/02/ThisIsCoffee61_captions.xml">
</text>
```

```
<div style='width: 320px; height: 240px; color: white'><p>No Video Support.</p>
```

```
</div>
```

```
</video>
```

<http://www.w3.org/2011/Talks/0504-html5-plh/video-player.xhtml>

<http://www.w3c.br/Noticias/W3cBrasilPublicaPrimeiroVideoEmHtml5ETtml10>



HTML 5 [HyperText Markup Language]

Codecs/ container	IE	Firefox	Safari	Chrome	Opera	iPhone	Android
Theora+Vorbis+ Ogg	-	3.5+	-	5.0+	10.5+	-	-
H.264+AAC+ MP4	9.0+	-	3.0+	-	-	3.0+	2.0+
WebM	9.0+	4.0+	-	6.0+	10.6+	-	?

HTML 5 [HyperText Markup Language]

<http://szenesprachenwiki.de/words/canvas>



TRENI
EURO

<canvas>

Neue Wörter Wörterbuch Konfetti FAQ Registrierung oder Log-in

DUDEN

Neues Wörterbuch
der Szenesprachen

Games & Netwc



» Buch bei Amazon kaufen

spoken

Musik von "The Spoken Project" Sc

HTML 5 [HyperText Markup Language]

http://guciek.net/burn_canvas/en

A test of local pixel-based modifications of an HTML5 canvas. Drag around the screen, change effects: burn, melt.

The code is open-source, see more at <http://guciek.net/js/en>.

HTML**<canvas>**

cgi.br nic.br

HTML 5 [HyperText Markup Language]

<http://chrome.angrybirds.com/>

HTML



`<canvas>`



cgi.br nic.br

Canvas

```
<canvas id="theapt" width="100" height="100">
```

```
<div class="warning"> <p>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.
```

```
<a href="http://getfirefox.com">FireFox 3.5</a>,&br/><a href="http://apple.com/safari">Safari</a>,&br/><a href="http://www.opera.com/">Opera</a> or  
<a href="http://google.com/chrome">Chrome</a>. Sie können sich diese Browser  
kostenlos herunterladen.</p>
```

```
</div>
```

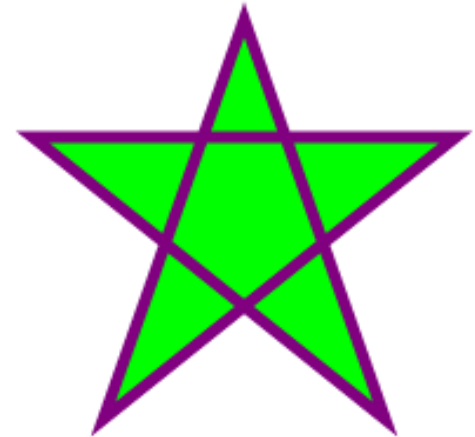
```
</canvas>
```

HTML 5 [HyperText Markup Language]



`<svg>`

```
<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>
```



Semântica

Os novos elementos





HTML 5 [HyperText Markup Language]

Novos elementos

<article>

<section>

<header> & <footer>

<hgroup> (agrupamento **<h1>** **<h2>** ...)

<aside>

<figure> e **<figcaption>**

Lista completa: <http://www.w3.org/TR/html-markup/>

HTML 5 [HyperText Markup Language]

div.container

div.header

div.nav

div.article

div.content

h1.title

div.links

div.sidebar

div.body

div.footer

HTML4 + CSS

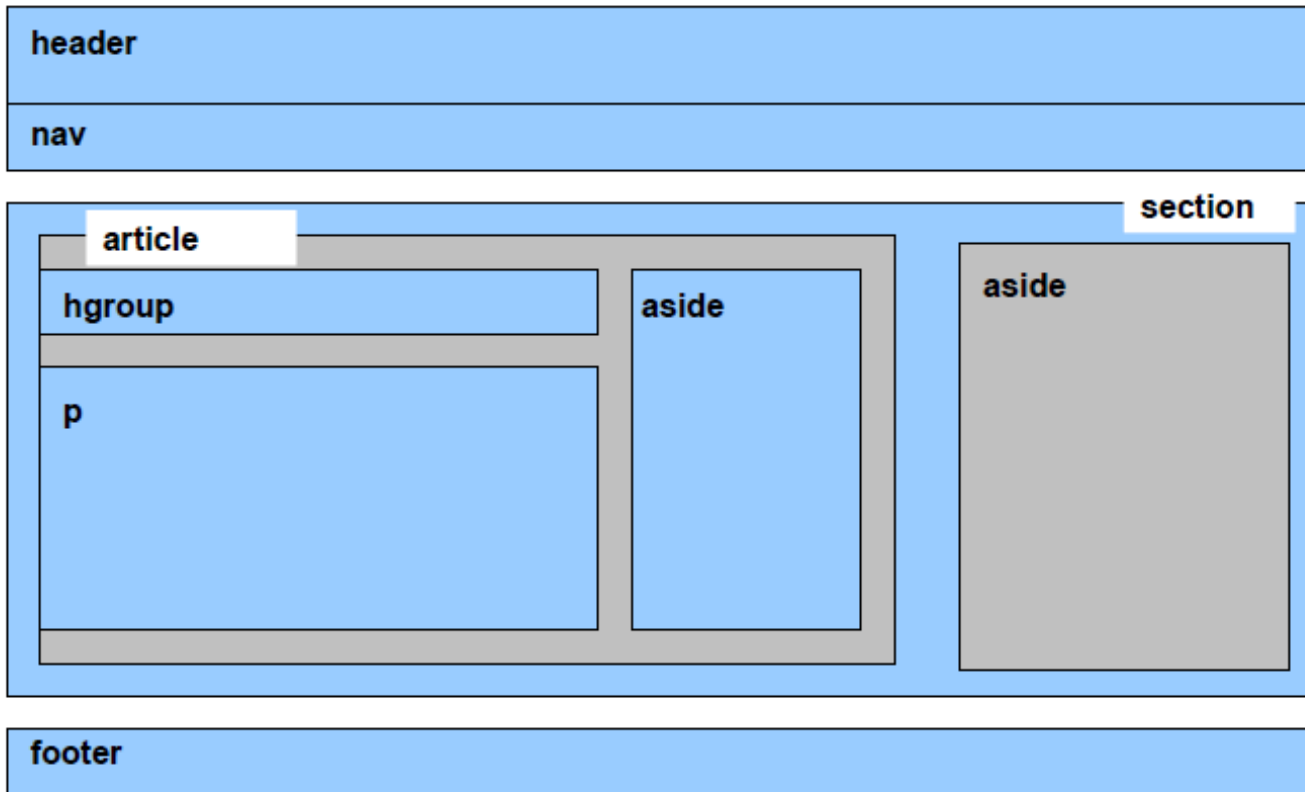
HTML 5 [HyperText Markup Language]



**Novos
elementos
(semânticos)**

HTML5 + CSS

section.container





E o que ficou de fora do HTML5?

abbr, **align**, allowtransparency, archive,
background, bgcolor, **border**, cellpadding,
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, cellpadding, cellspacing,
classid, clear, color, compact,
frame, href, link,
marginleft, marginleft,
margiginwidth,
noshade, rules, scheme,
scrolling, size, text, urn, **valign**,
valuetype, vlink, vspace, **width**




CSS



HTML 5 [HyperText Markup Language]

- <http://www.whatwg.org/>
- <http://www.whatwg.org/demos/company-home/>
- <http://www.w3.org/2009/03/web-demo.xhtml>
- <http://www.w3.org/html/wiki/Demos>
- <http://www.w3.org/html/planet/>
- <http://www.w3.org/html/logo/>
- <http://www.w3.org/TR/ttaf1-dfxp/>
- <http://acessodigital.net/video-html5/video-acessibilidade-br.html>
- <http://www.w3c.br/Cursos/>

I've seen the
FUTURE
It's in my
BROWSER





I've seen the
FUTURE
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**Conectividade – CSS3 – Acesso de dispositivos –
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