



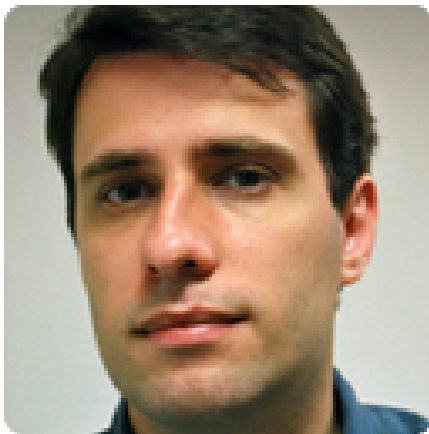
## HTML5

O Futuro da Web

Multimídia sem limites – Senac Consolação

11 de setembro de 2012

Reinaldo Ferraz – W3C.br

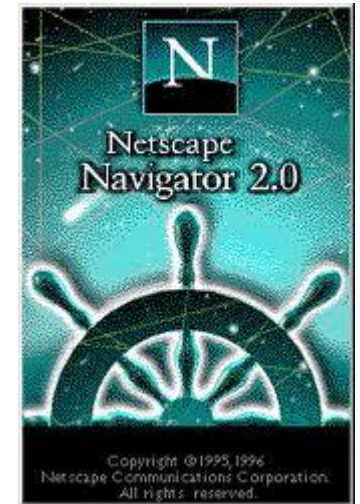


# Reinaldo Ferraz

@reinaldoferraz

*Apaixonado por acessibilidade, usabilidade, padrões web, HTML, CSS, Star Wars e café.*

São Paulo



**cadê?** 

[Novos](#) [Inclusões](#) [Cadê? Mail](#) [Veja](#)

[Cadê? Você](#) | [Download](#) | [AQUI!](#) | [Cadê? Livros](#) | [Cadê? EnglishTown](#)

**Consulta**

[Opções de busca](#)

**Lojas Americanas - Clique Aqui!!!**



PUBLICIDADE



egi.br

nie.br

18, 19 e 20 de outubro de 2012  
São Paulo – SP



✓ Curtir

Reinaldo Ferraz e 430 outras pessoas curtiram isso.



## 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.

[Página inicial](#)

[Sobre a conferência](#)

[Inscrições](#)

[Programação](#)

[Local do evento](#)

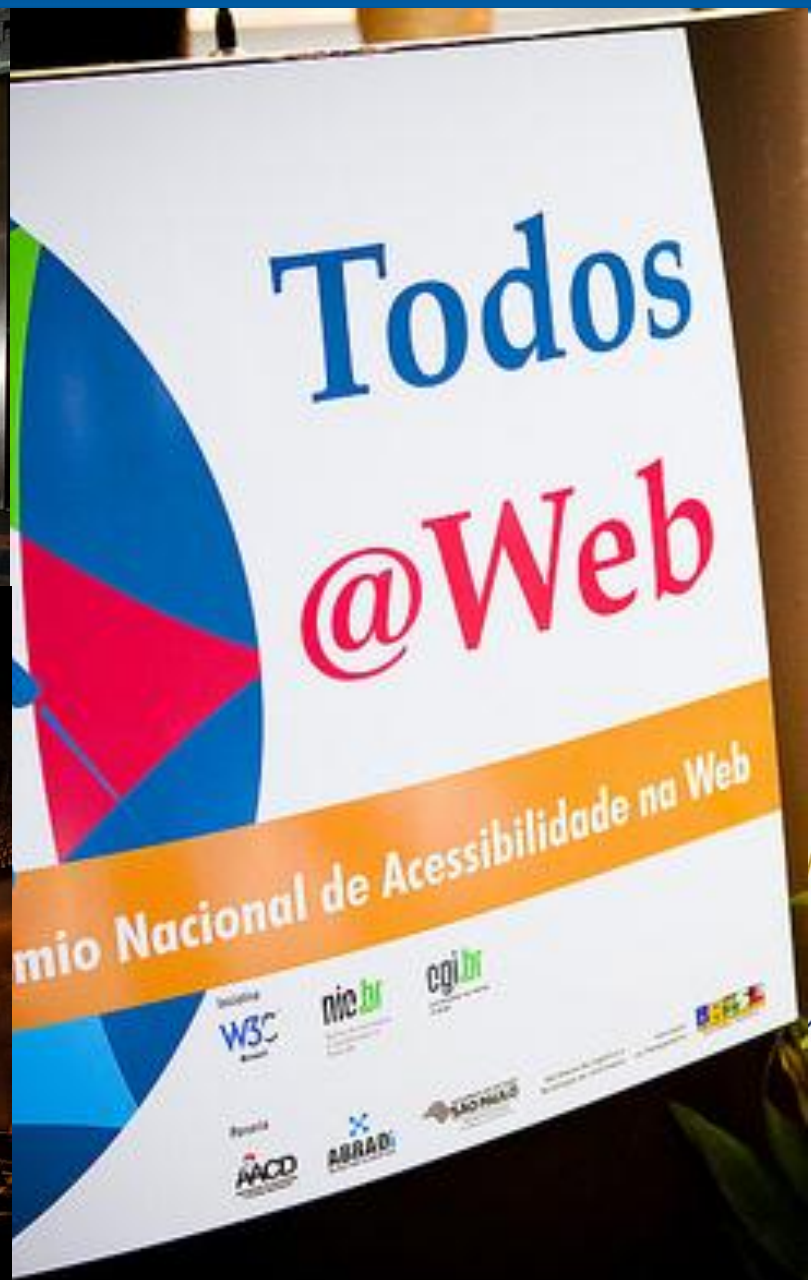
[Opções de hospedagem](#)

[Edições anteriores](#)

[Sobre o W3C Brasil](#)

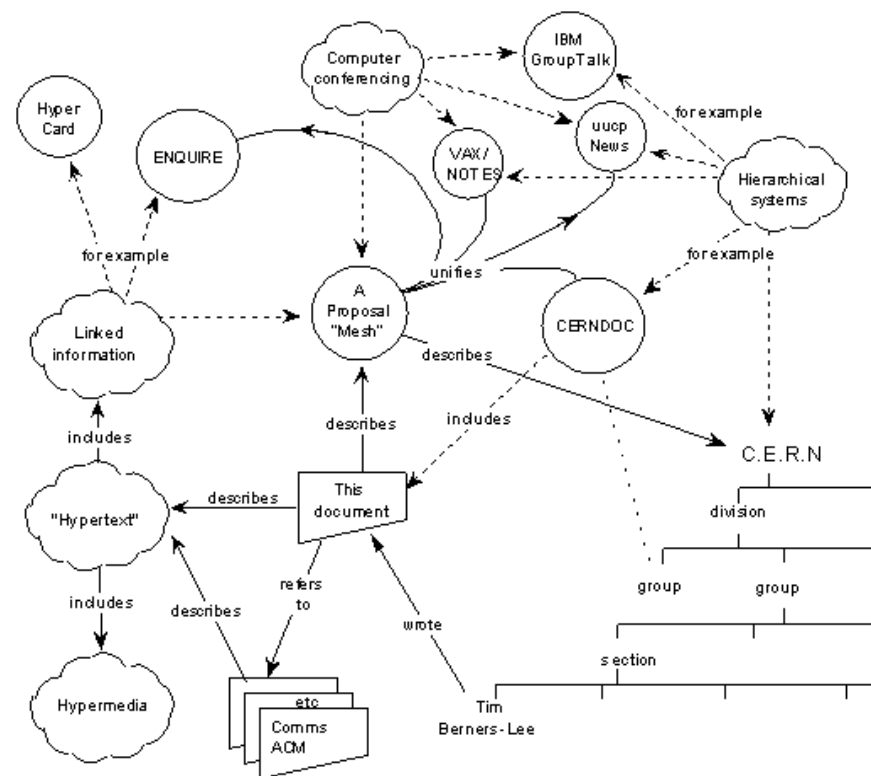
[Sobre o CGI.br](#)

[Sobre o NIC.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 ?](#)

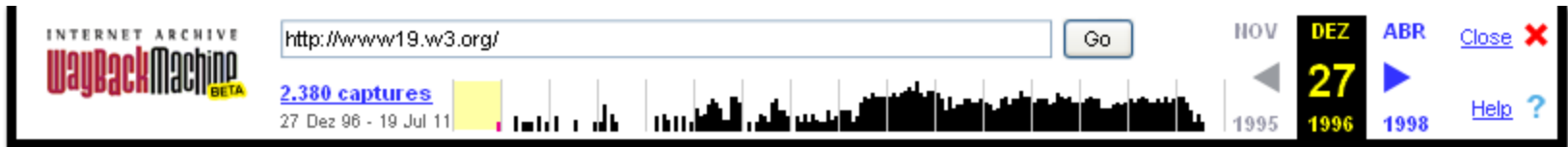
If you would like to support the web..

### [Getting code](#)

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

## Tim Berners-Lee criou / propôs

- a Web em 1989 (há 22 anos)
  - <http://www.w3.org/History/1989/proposal.html>
  - (URI + HTTP + HTML)
- o W3C em 1994 (há 18 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](mailto: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

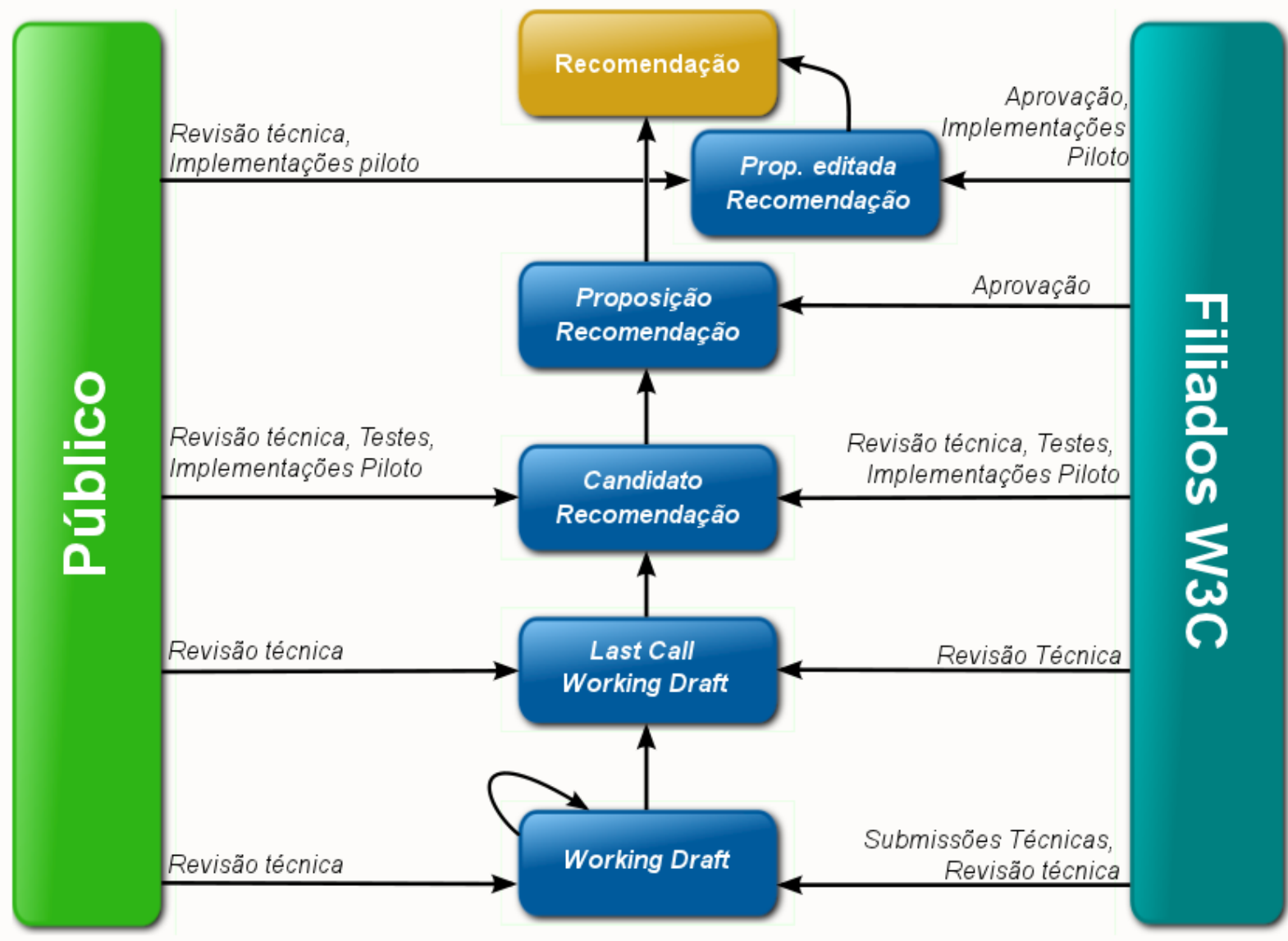
The World Wide Web Consortium (W3C) is an international community that develops open [standards](#) to ensure the long-term growth of the Web. Read about the [W3C mission](#).

## 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



# WWW 2013

Rio de Janeiro, Brazil

22nd International World Wide Web Conference

13th -17th, May

[About](#)[Attendees](#)[Authors](#)[Committee](#)[Media](#)[Program](#)[Be a Sponsor](#)[Contact](#)

## 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](http://www2013.org)) will be updated regularly and monthly newsletters will keep you current with the latest information.

### Important Dates

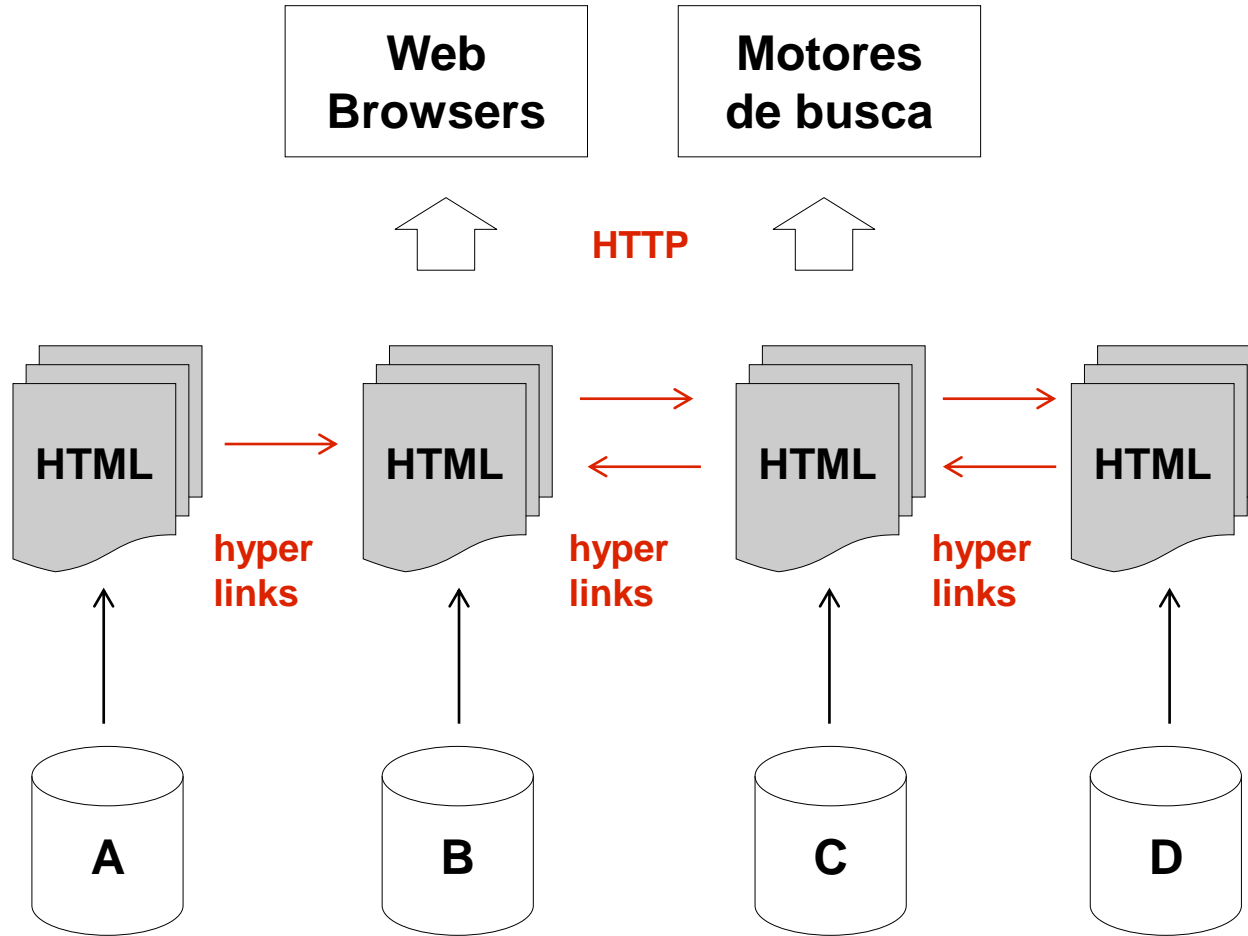


Organizers

cgi.br

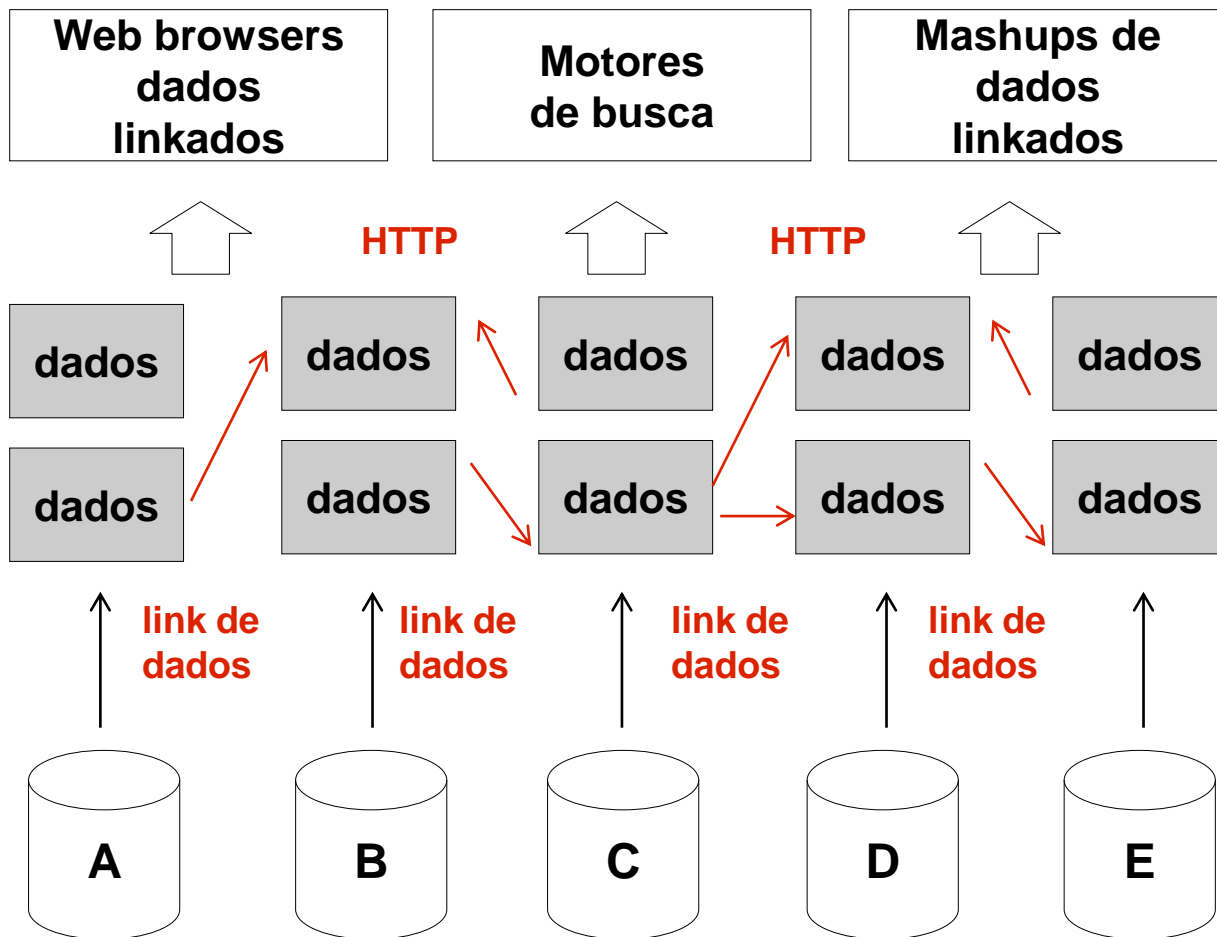
nic.br



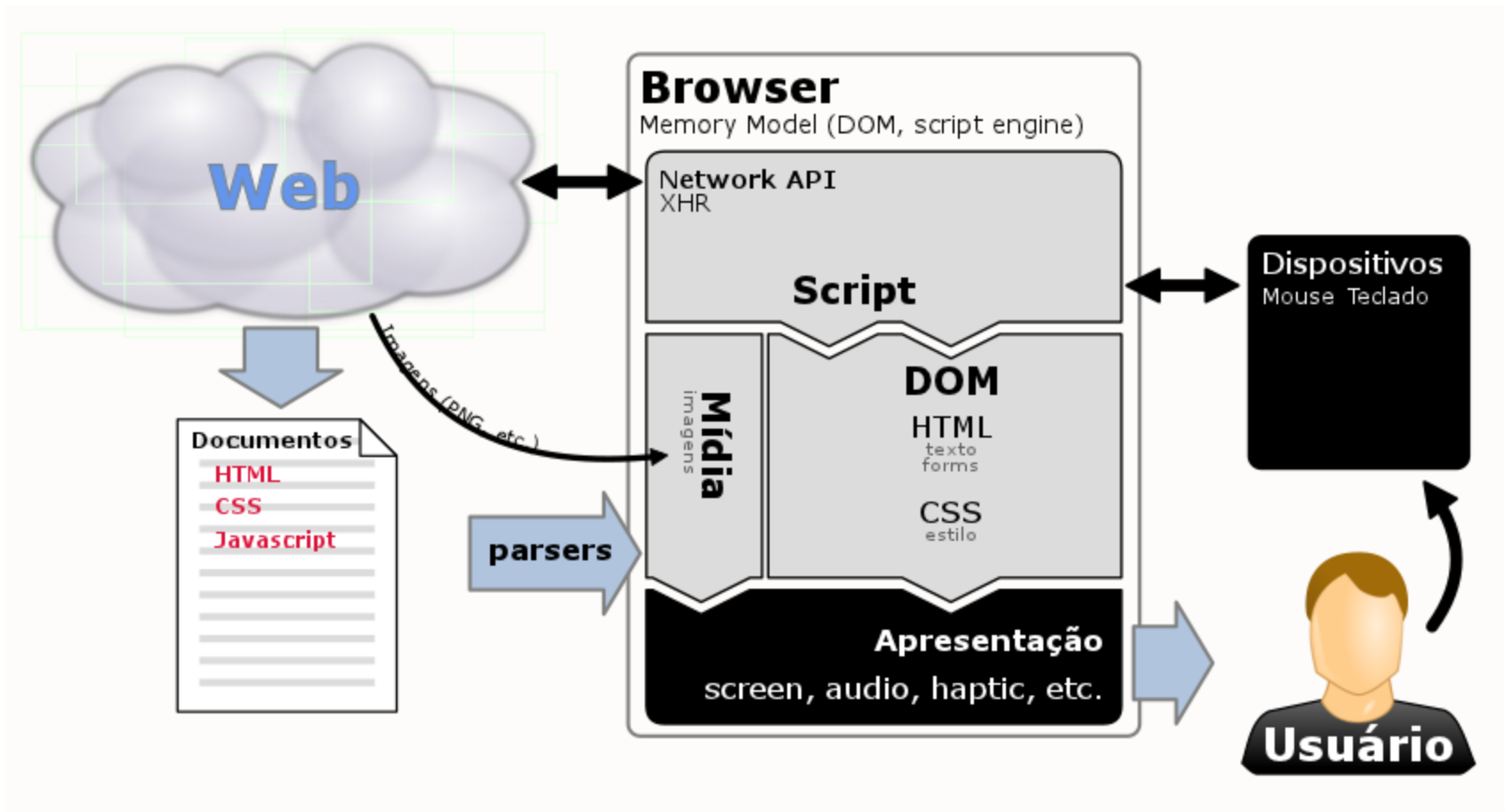


RDF +  
HTML5

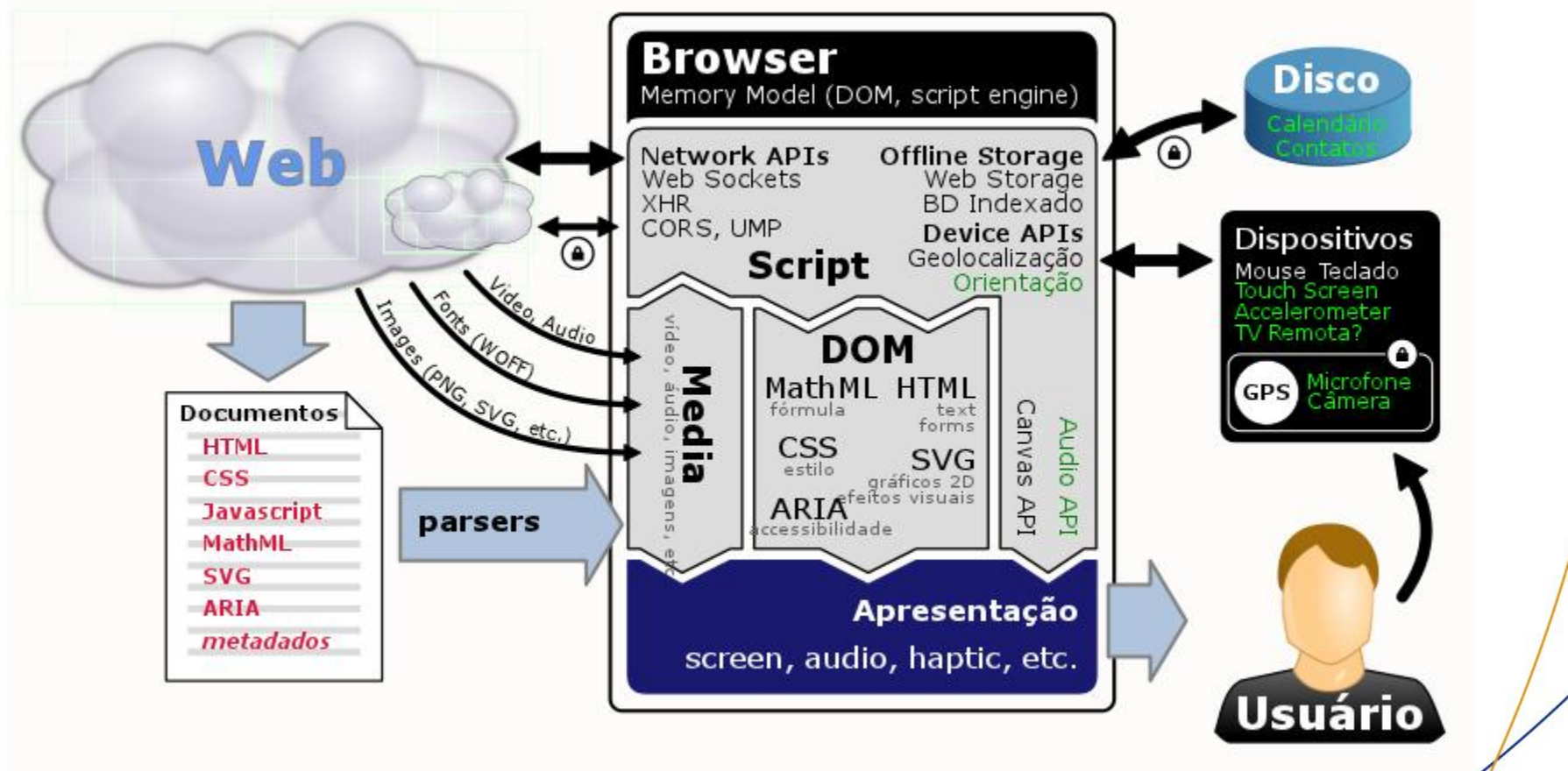
URI



## WEB 2001

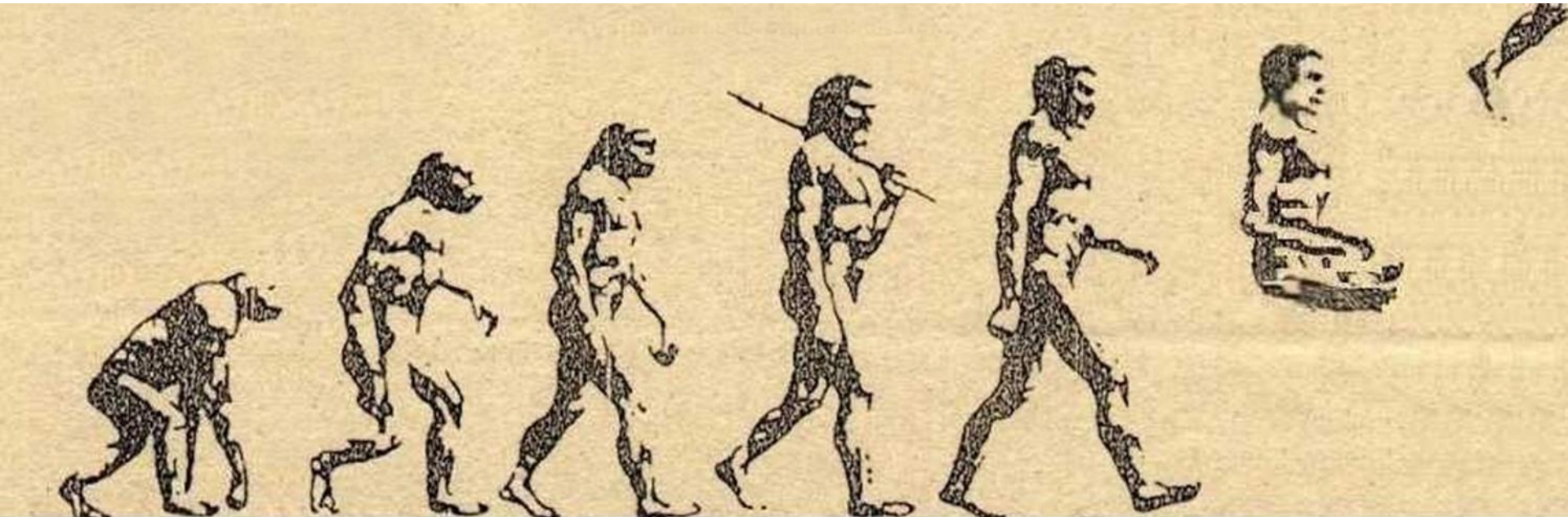


## WEB 2011





# HTML4 – XHTML – HTML5





## HTML 5 [HyperText Markup Language]

- 1991 – html tag – Tim Berners Lee
- 1994 – HTML 2 - já incluía 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](mailto: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](mailto: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](mailto: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: [\[ date \]](#) [\[ thread \]](#) [\[ subject \]](#) [\[ author \]](#)

## 3 grandes atores da web





[Html5test.com](http://Html5test.com)



## Exemplos



- **Web**
- **Interoperabilidade**
- **Geolocalização**
- **Áudio e Vídeo além da TV**
- **Comandos de voz**
- **...**



# 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>**

**Address**

Street Address

Address Line 2

# Formulários

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

# 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","Out
ubro","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("</td><td>");
document.write ("<select name=year
onchange=change_year(this.options[this.options.selectedIndex])>");
for(i=1950;i<3000;i++)
{
```

Agosto	1950					
S	T	Q	Q	S	S	D
-	-	-	-	-	1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30
31	-	-	-	-	-	-

## Novidades nos formulários

```
<input type="date" />
```

```
<input type="datetime" />
```

```
<input type="datetime-local" />
```

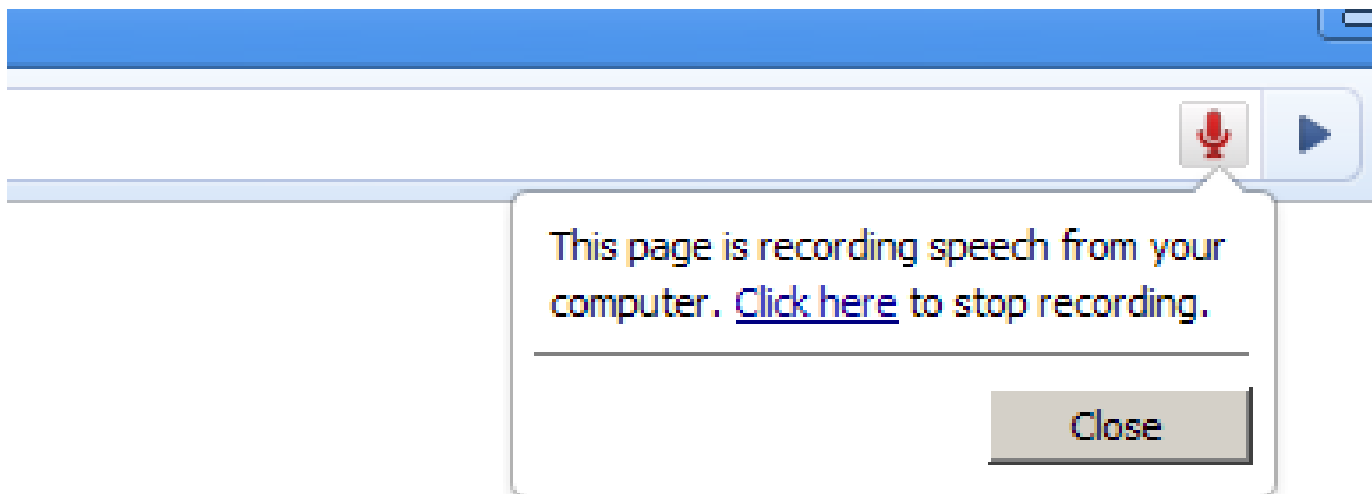




# Speech

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

```
<input type="text" x-webkit-speech />
```



## Exemplos

# Geolocalização



## Exemplos

# Video





## HTML 5 [HyperText Markup Language]

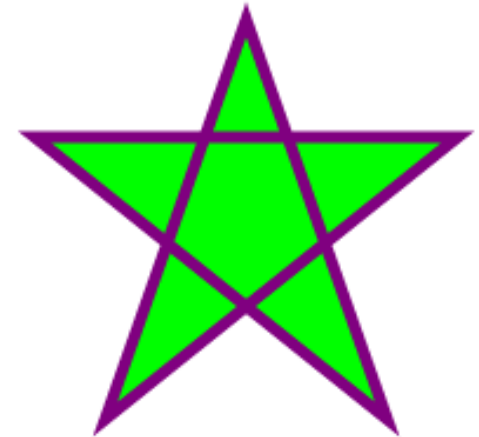
Codecs/ container	IE	Firefox	Safari	Chrome	Opera	iPhone	Android
Theora+Vorbis+ Ogg	-	3.5+	-	5.0+	10.5+	-	-
H.264+AAC+ MP4	9.0+	-	3.0+	-	-	3.0+	2.0+
WebM	9.0+	4.0+	-	6.0+	10.6+	-	?

## Exemplos



# 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>
```



## Exemplos

# 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>
```

## Exemplos

## WebGL - Exemplos

# Semântica

## Os novos elementos



# HTML 5 [HyperText Markup Language]

**div.container**

**div.header**

**div.nav**

**div.article**

**h1.title**

**div.body**

**div.links**

**div.content**

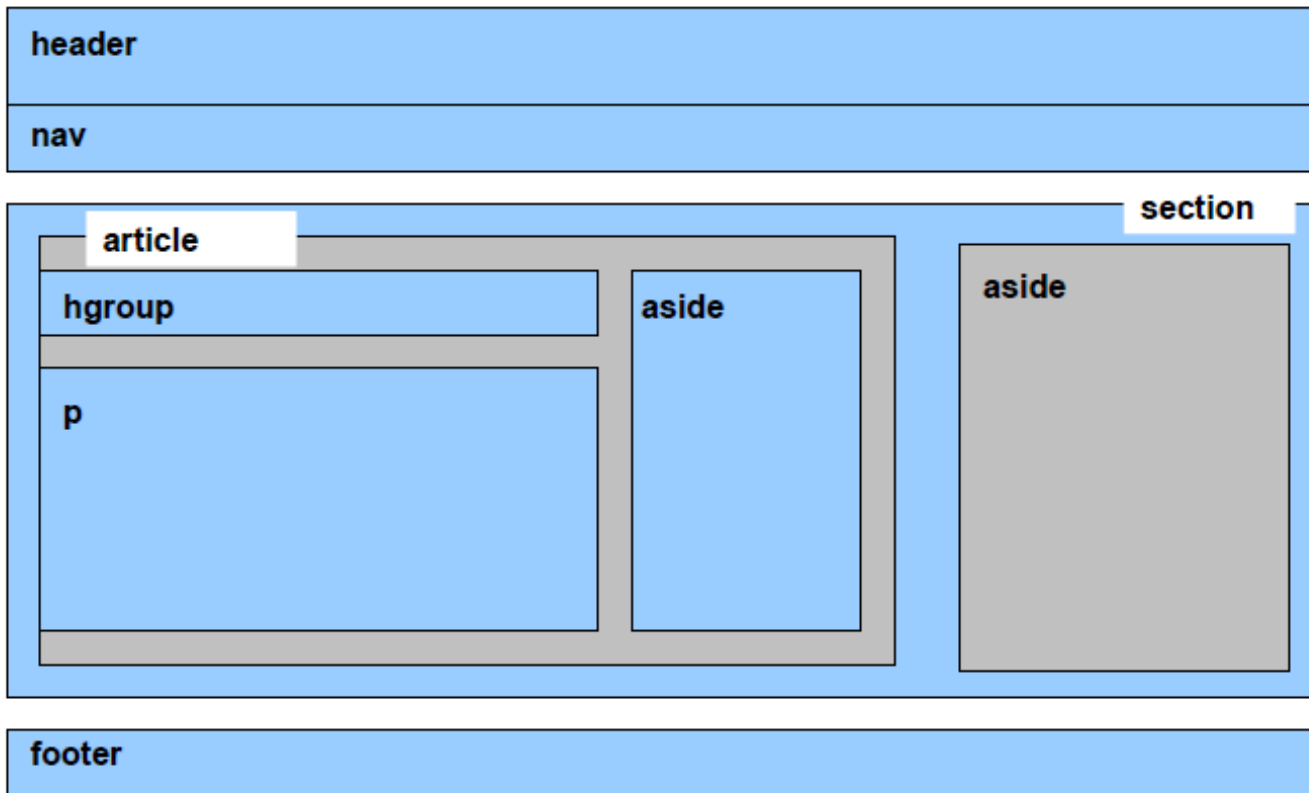
**div.sidebar**

**div.footer**

HTML4 + CSS

# HTML 5 [HyperText Markup Language]

section.container



**Novos  
elementos  
(semânticos)**

**HTML5 + CSS**





**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, marginright, marginwidth,  
**margi**nwidth,  
noshade, rules, scheme,  
scrolling, size, text, urn, **valign**,  
valuetype, vlink, vspace, **width**



CSS

## Exemplos



## 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/>

<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://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/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](https://developer.mozilla.org/media/uploads/demos/L/F/LFeh/676da0435f2fd4a2300902c3b810504e/pure-css3-eric-cartm_1346873179_demo_package/index.html)

[https://developer.mozilla.org/media/uploads/demos/b/e/bernarddeluna/98993ebf9a834ed591bc860f9b08df5b/pure-css3-homer\\_1342534433\\_demo\\_package/index.html](https://developer.mozilla.org/media/uploads/demos/b/e/bernarddeluna/98993ebf9a834ed591bc860f9b08df5b/pure-css3-homer_1342534433_demo_package/index.html)



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