



O mais reconhecido e
importante encontro nacional
de governo eletrônico

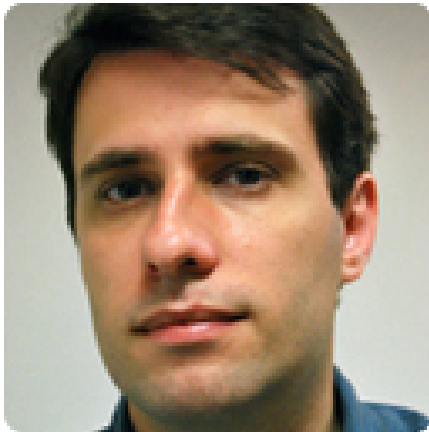
19º

Congresso de
Informática e
Inovação na
Gestão Pública

20 e 21 de Agosto de 2013
Fecomercio
São Paulo - SP

HTML5 e Mobile Web

Reinaldo Ferraz – W3C Brasil



Reinaldo Ferraz

@reinaldoferraz

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

São Paulo

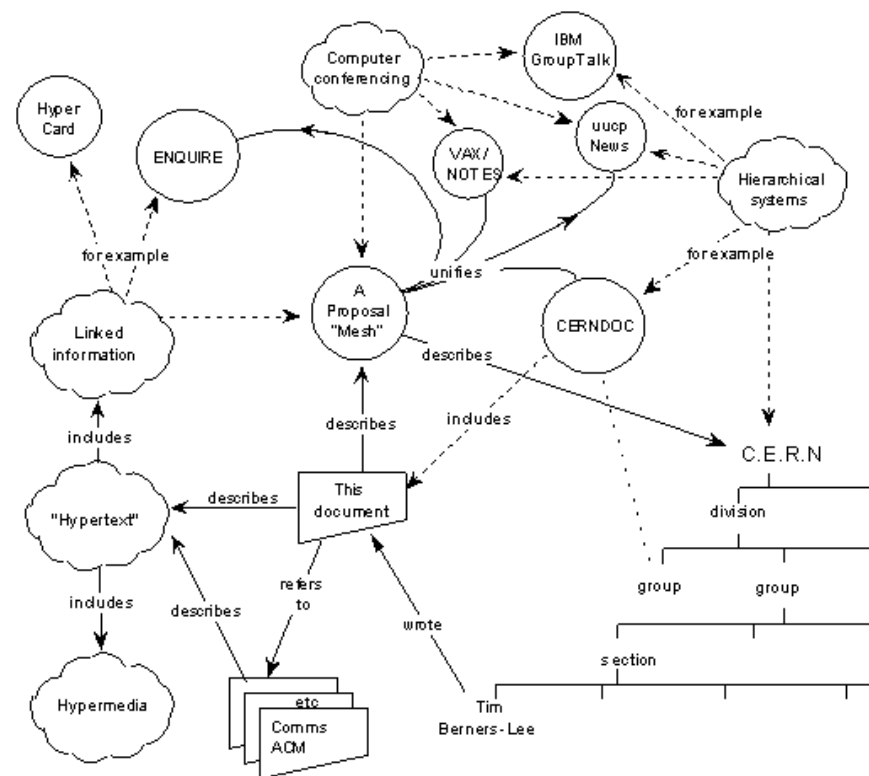


egi.br

nie.br

Tim Berners-Lee criou / propôs

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



The problem with trees

Many systems are organised hierarchically. The CERNDOC documentation system is an example, as is the Unix file system, and the VMS/HELP system. A tree has the practical advantage of giving every node a unique name. However, it does not allow the system to model the real world. For example, in a hierarchical HELP system such as VMS/HELP, one often gets to a leaf on a tree such as

```
HELP COMPILER SOURCE_FORMAT PRAGMAS DEFAULTS
```

only to find a reference to another leaf: "Please see

```
HELP COMPILER COMMAND OPTIONS DEFAULTS PRAGMAS"
```

and it is necessary to leave the system and re-enter it. What was needed was a link from one node to another, because in this case the information was not naturally organised into a tree.

<http://www.w3.org/History/1989/proposal.html>

The problem with keywords

Keywords are a common method of accessing data for which one does not have the exact coordinates. The usual problem with keywords, however, is that two people never chose the same keywords. The keywords then become useful only to people who already know the application well.

Practical keyword systems (such as that of VAX/NOTES for example) require keywords to be registered. This is already a step in the right direction. A linked system takes this to the next logical step. Keywords can be nodes which stand for a concept. A keyword node is then no different from any other node. One can link documents, etc., to keywords. One can then find keywords by finding any node to which they are related. In this way, documents on similar topics are indirectly linked, through their key concepts. A keyword search then becomes a search starting from a small number of named nodes, and finding nodes which are close to all of them.

It was for these reasons that I first made a small linked information system, not realising that a term had already been coined for the idea: "hypertext".

<http://www.w3.org/History/1989/proposal.html>

A solution: Hypertext

<http://www.w3.org/History/1989/proposal.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 24 anos)
 - <http://www.w3.org/History/1989/proposal.html>
 - (URI + HTTP + HTML)
- o W3C em 1994 (há 19 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

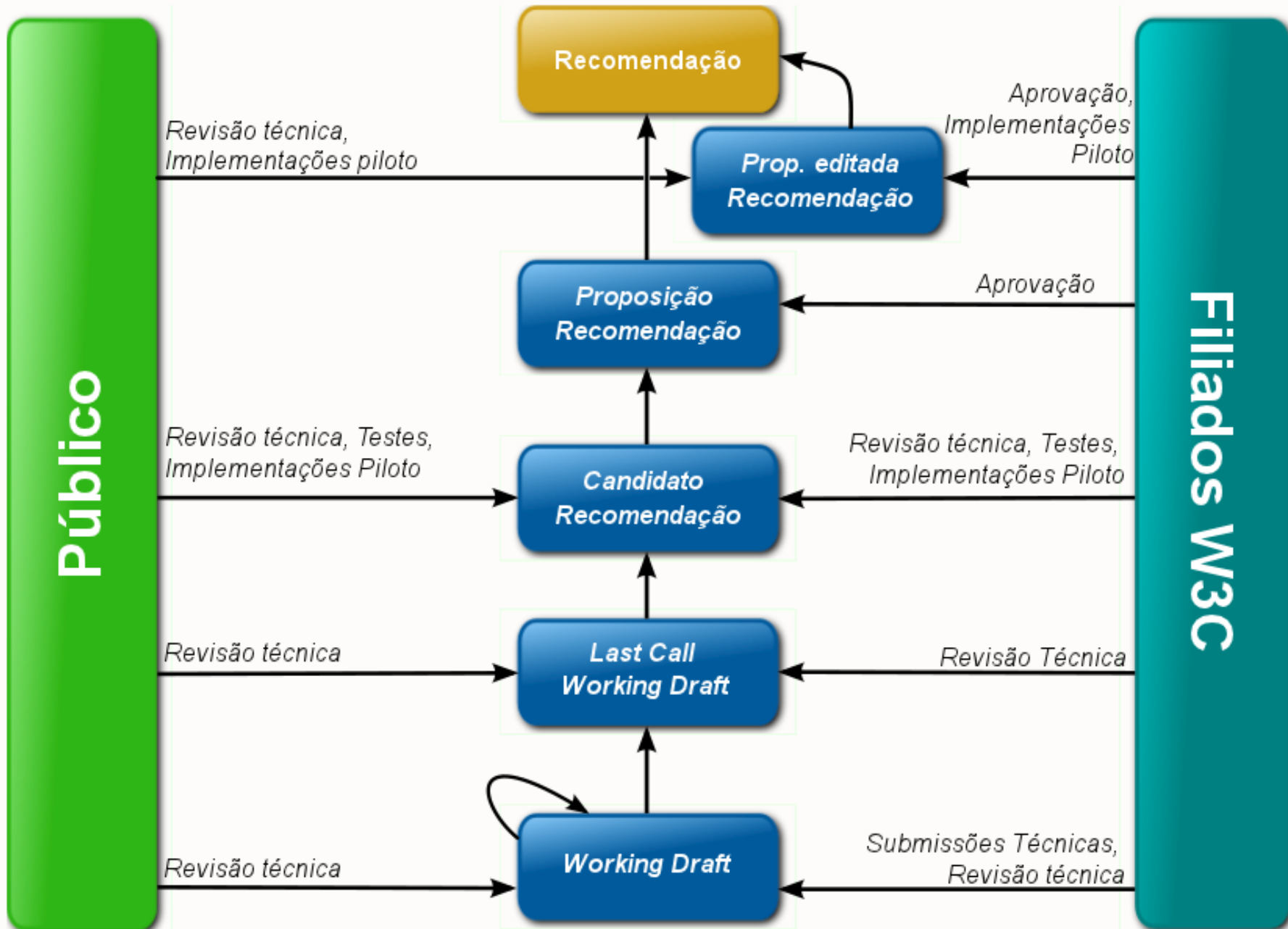
The World Wide Web Consortium (W3C) is an international community that develops open [standards](#) to ensure the long-term growth of the Web. Read about the [W3C mission](#).

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



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) will be updated regularly and monthly newsletters will keep you current with the latest information.

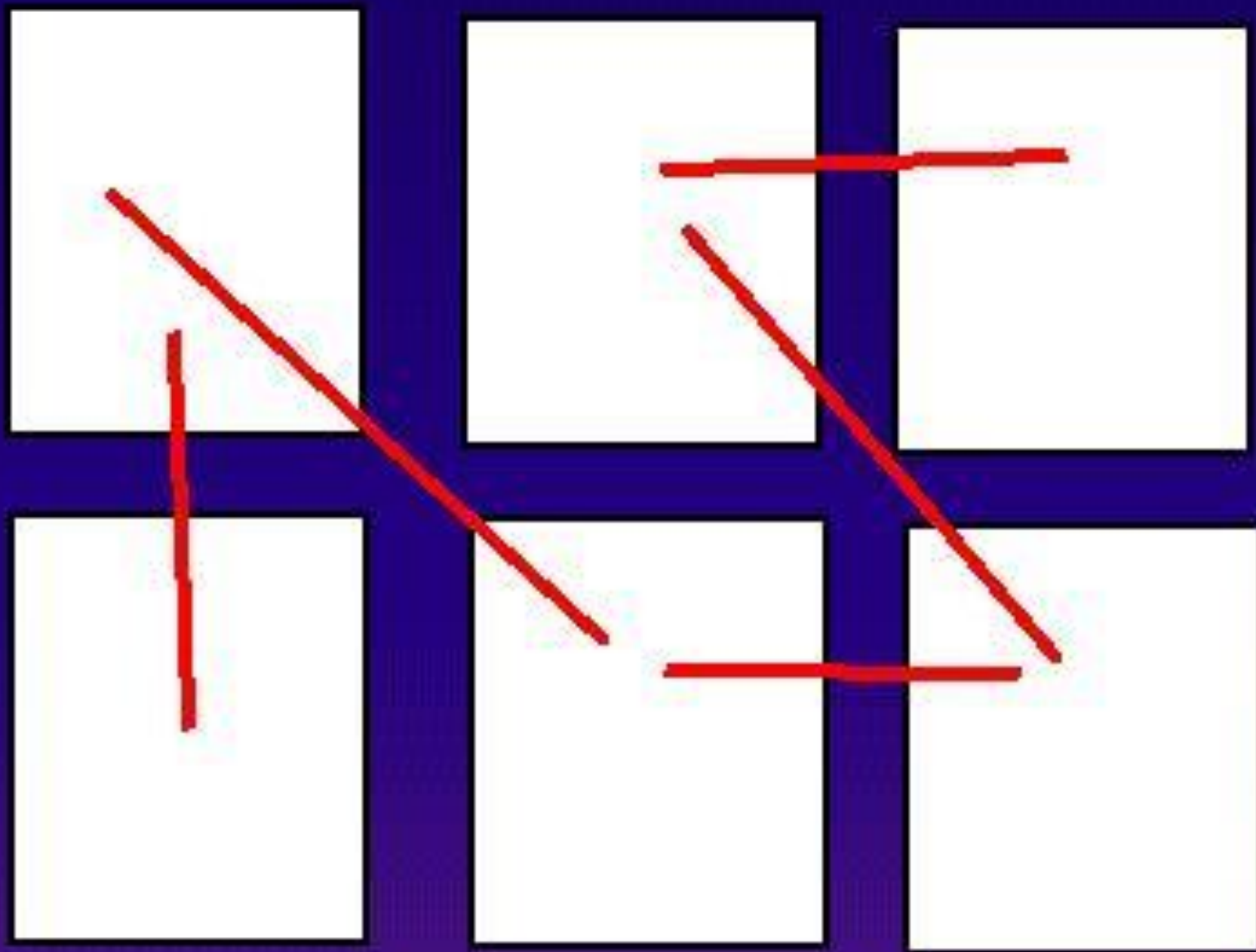
Important Dates

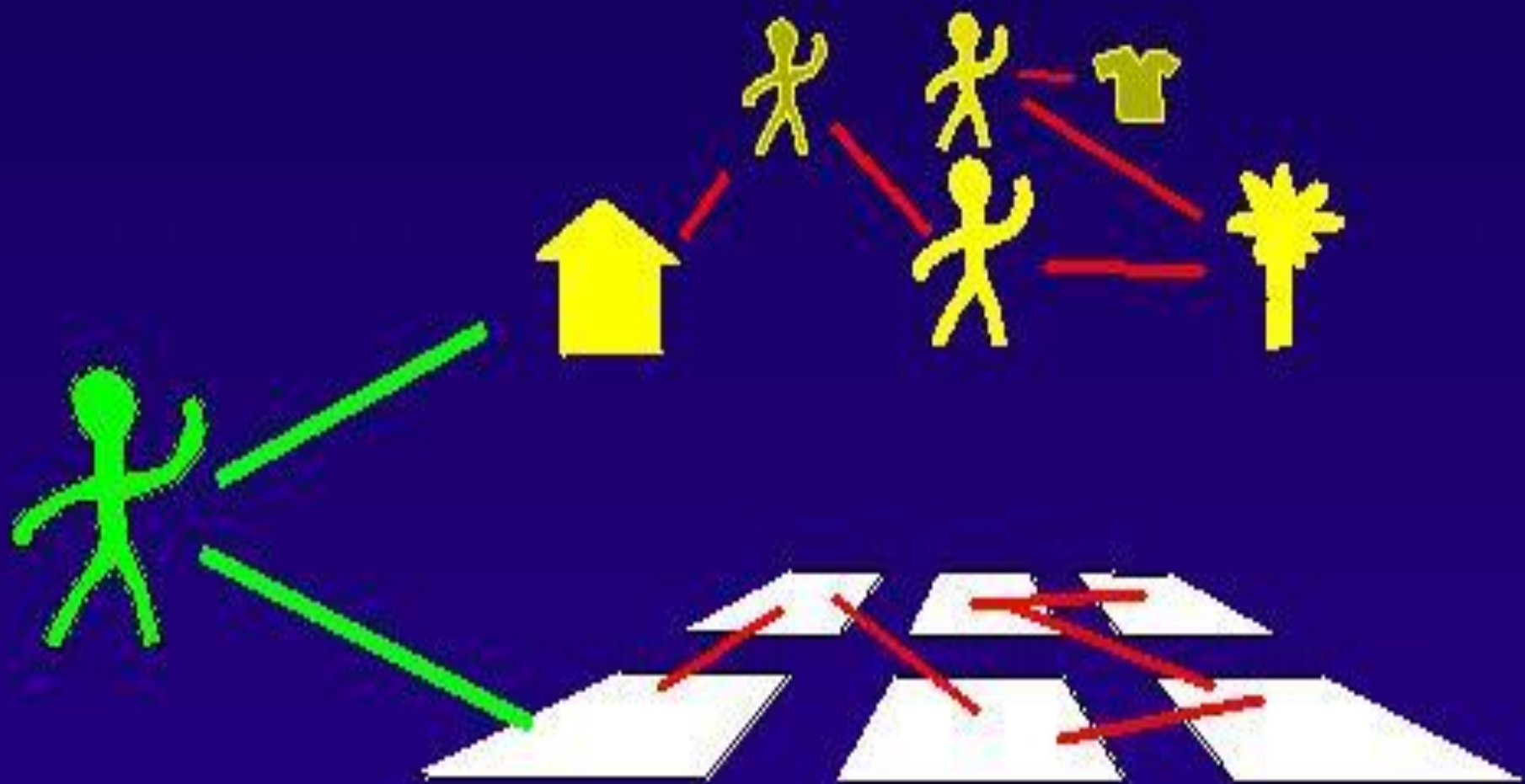


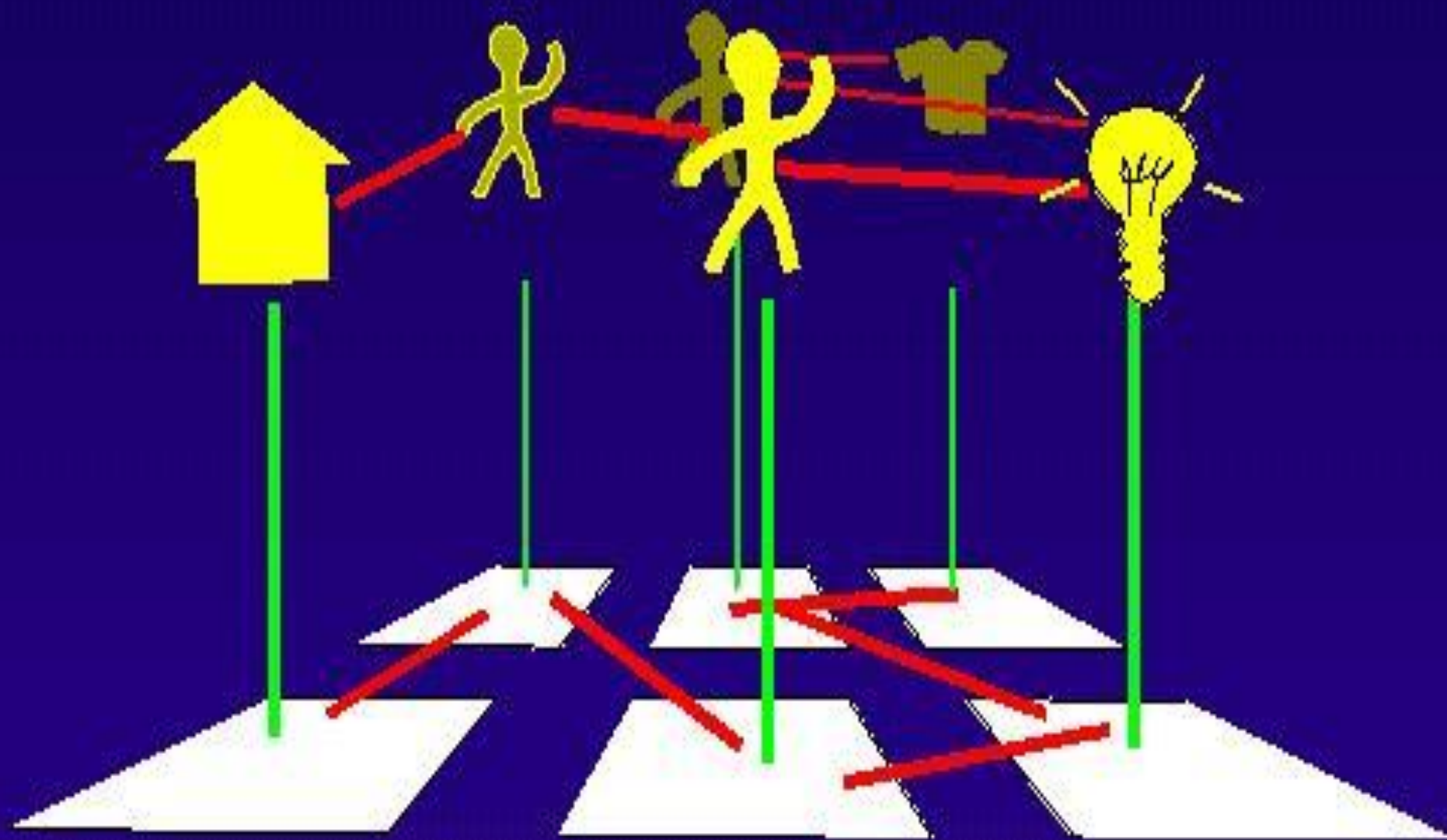
Organizers

cgi.br

nic.br







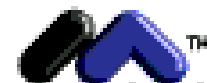
Porque padrões abertos?





macromedia® **FLASH™ 3**

The Web Standard for Vector Graphics and Animation



macromedia®

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showroom



info&contact



New – EYE4U merchandise!





ANBOTO — testimonial
ANDANZA TECHNOLOGIES
Apple, Inc.
association BrailleNet
Astra Zeneca



Views: [desktop](#) [mobile](#) [print](#)

[STANDARDS](#) [PARTICIPATE](#) [MEMBERSHIP](#) [ABOUT W3C](#)

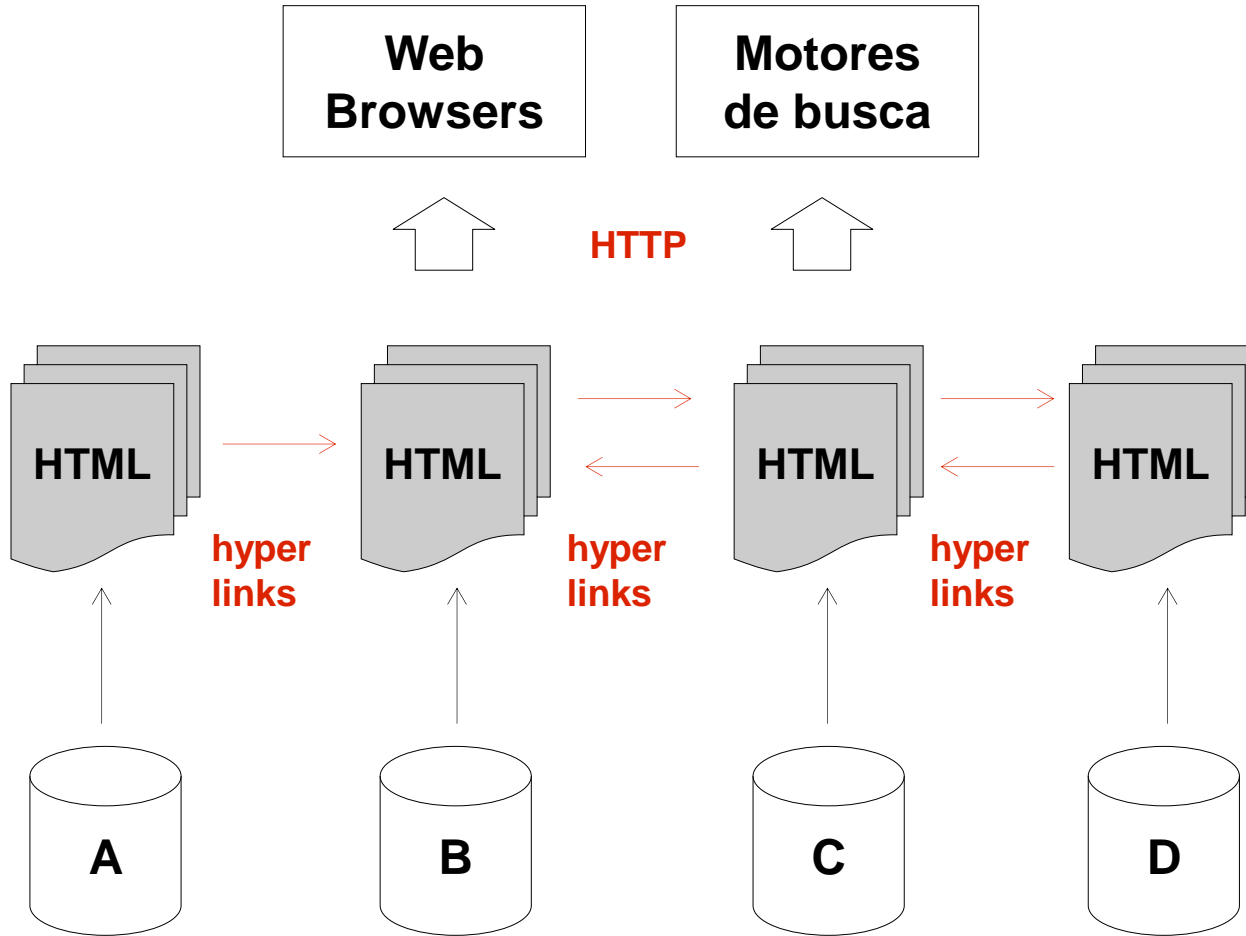
[W3C](#) » [Membership](#) » [Current Members](#)

CURRENT MEMBERS

As of 22 June 2012, the World Wide Web Consortium (W3C) has [statistics about W3C Members](#) and view an [animation of current members](#).

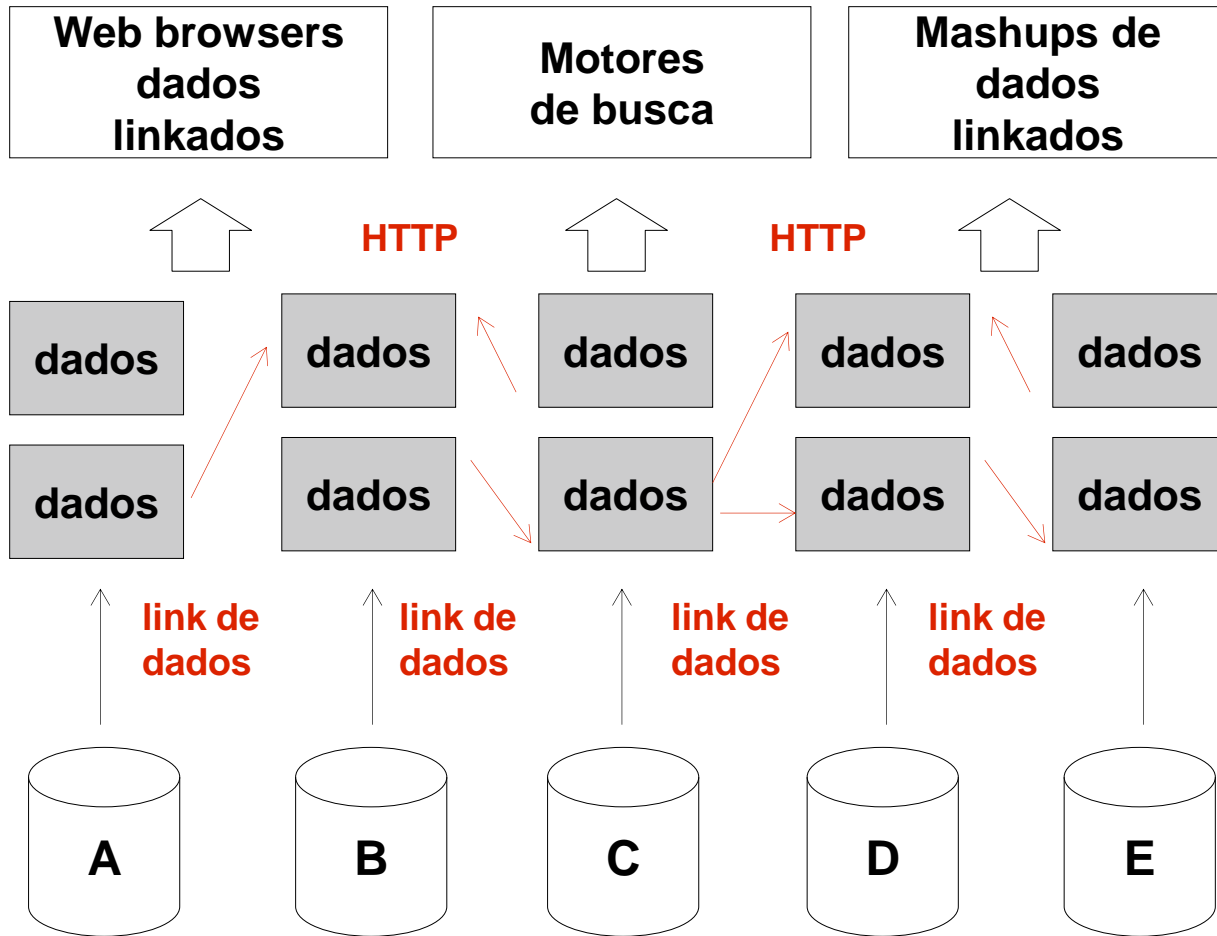
[2](#) [|](#) [A](#) [|](#) [B](#) [|](#) [C](#) [|](#) [D](#) [|](#) [E](#) [|](#) [F](#) [|](#) [G](#) [|](#) [H](#) [|](#) [I](#) [|](#) [J](#) [|](#) [K](#) [|](#) [L](#) [|](#) [M](#) [|](#) [N](#) [|](#) [O](#) [|](#) [P](#) [|](#) [Q](#) [|](#) [R](#) [|](#) [S](#) [|](#) [T](#) [|](#) [U](#) [|](#) [V](#) [|](#) [W](#) [|](#) [Y](#) [|](#) [Z](#) [|](#)

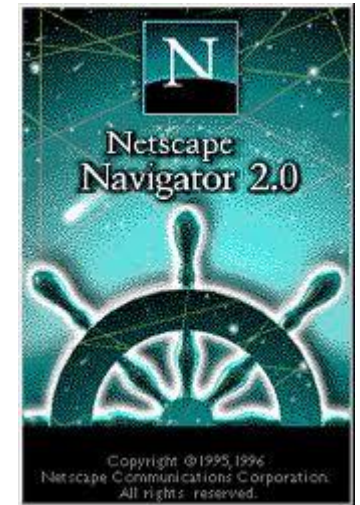
- [28msec Inc.](#)
- [Aalto University](#)
- [Academia Sinica](#)
- [ACCESS CO., LTD.](#)
- [ACORD Corporation](#)
- [Adesis Netlife S.L. — testimonial](#)
- [Adobe Systems Inc.](#)
- [AdTruth](#)
- [Afiliias Limited](#)
- [Agencia para el Desarrollo del Gobierno de Gestion Electronica y la Sociedad de la Informacion y del Conocimiento \(AGESIC\)](#)
- [AgileDelta, Inc. — testimonial](#)
- [Akmin](#)
- [Alcatel-Lucent](#)
- [Algebraix Data Corporation](#)
- [Alisys Software](#)
- [Altova GmbH — testimonial](#)
- [Amadeus](#)
- [AME Info FZ LLC — testimonial](#)
- [ANBOTO — testimonial](#)
- [ANDANZA TECHNOLOGIES](#)
- [Apple, Inc.](#)
- [association BrailleNet — testimonial](#)
- [Astra Zeneca](#)
- [AT&T](#)
- [Atal Behari Vajpayee - Indian Institute of Information Technology and Management, Gwalior](#)
- [Attensity Europe GmbH](#)
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RDF +
HTML5

URI





cadê? 

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

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

Consulta

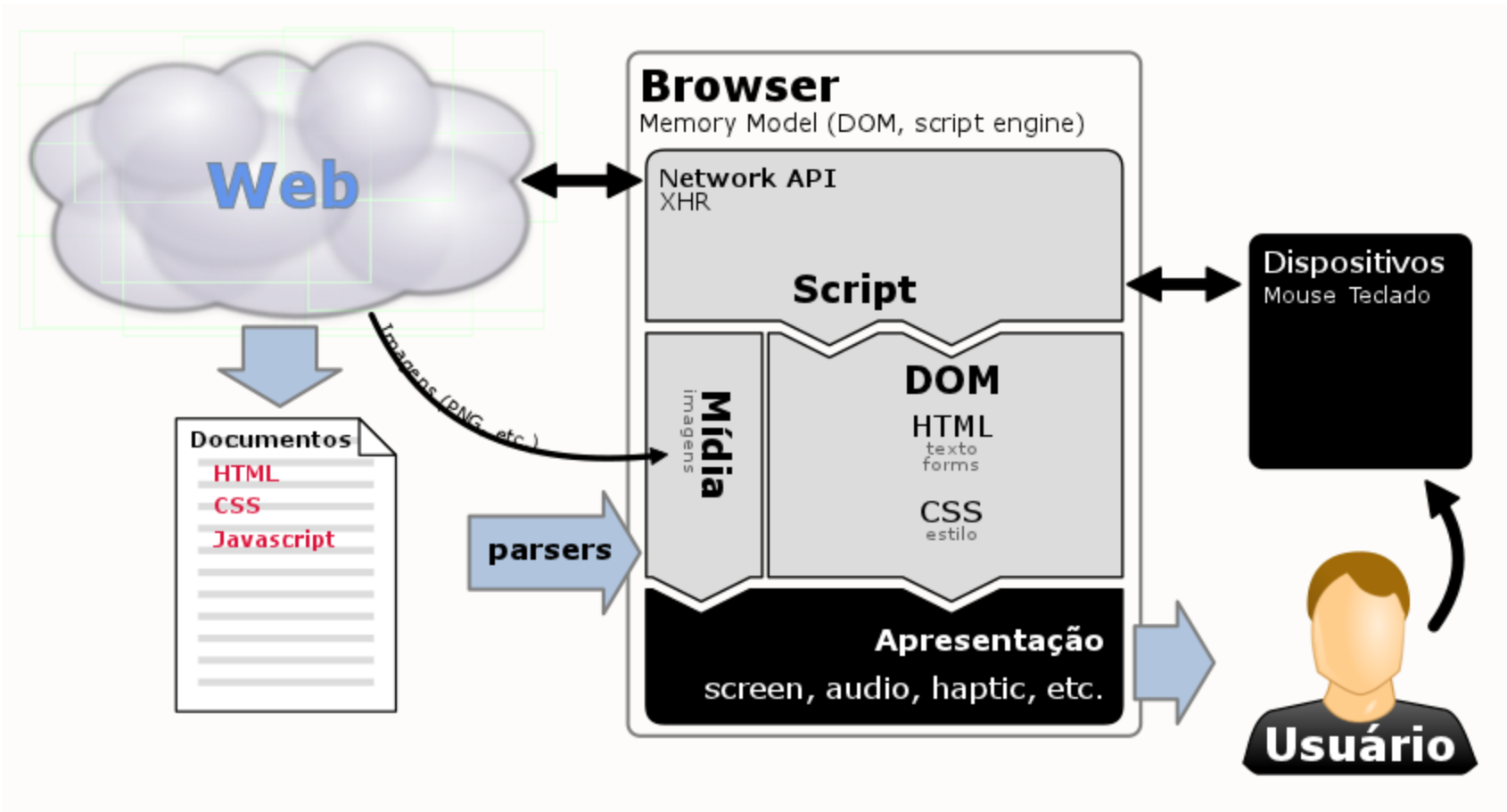
[Opções de busca](#)

Lojas Americanas - Clique Aqui!!!

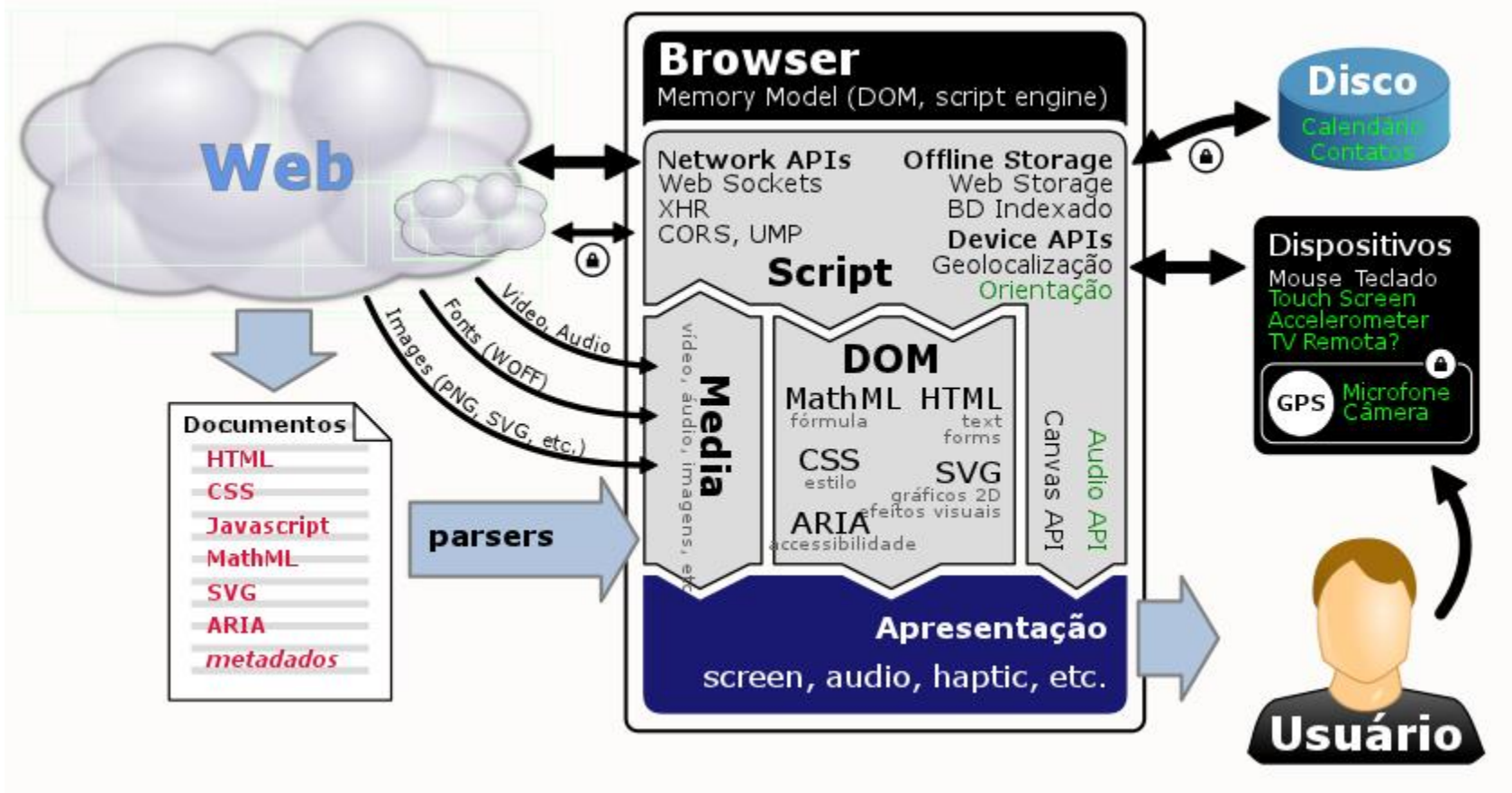


PUBLICIDADE

WEB 2001

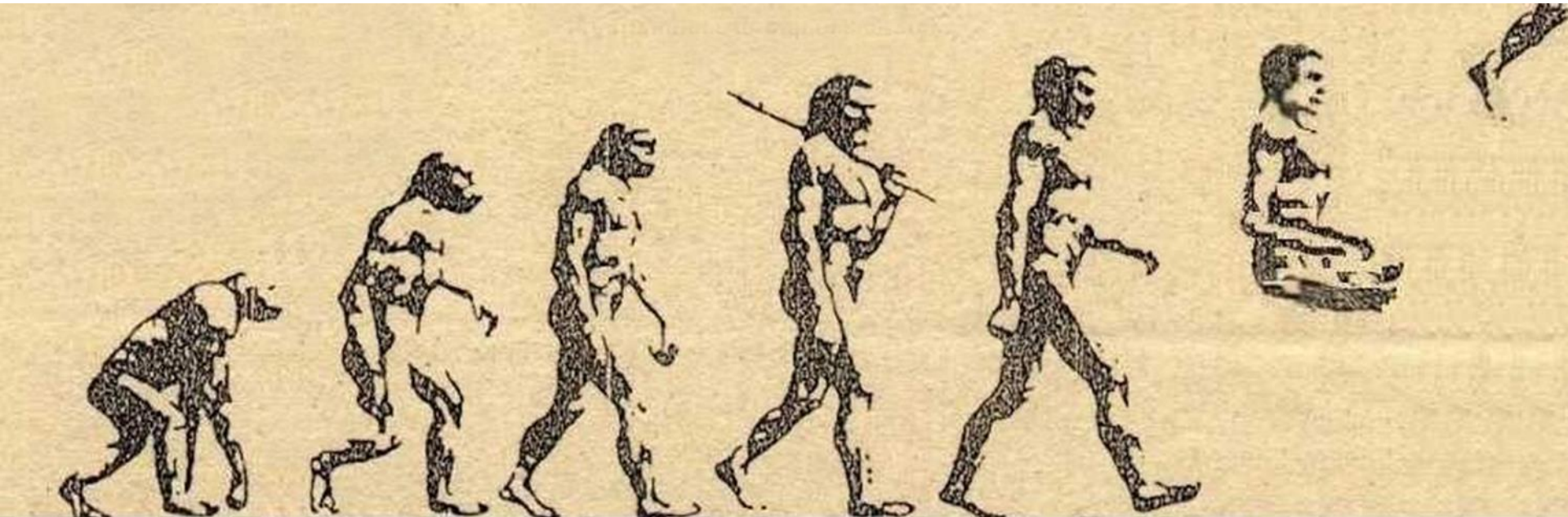


WEB 2011





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

<http://ln.hixie.ch/>

U+263A

Things that are impossible just take longer.

)\._,--.....,``. fL
/,_... \ \ ;'_..
'._-(,_'--(,_'--;..

-
- 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



 **Help improve your rank with SEO tips in the [Alexa Site Audit!](#)** 

[Global](#) [By Country](#) [By Category](#)

 **Top Sites**
The top 500 sites on the web. 

1 **Google**
google.com
Enables users to search the world's information, including webpages, images, and videos. Offers... [More](#)
★★★★☆ [Search Analytics](#) ▶ [Audience](#) ▶

2 **Facebook**
facebook.com
A social utility that connects people, to keep up with friends, upload photos, share links and ... [More](#)
★★★★☆ [Search Analytics](#) ▶ [Audience](#) ▶

3 **YouTube**
youtube.com
YouTube is a way to get your videos to the people who matter to you. Upload, tag and share your... [More](#)



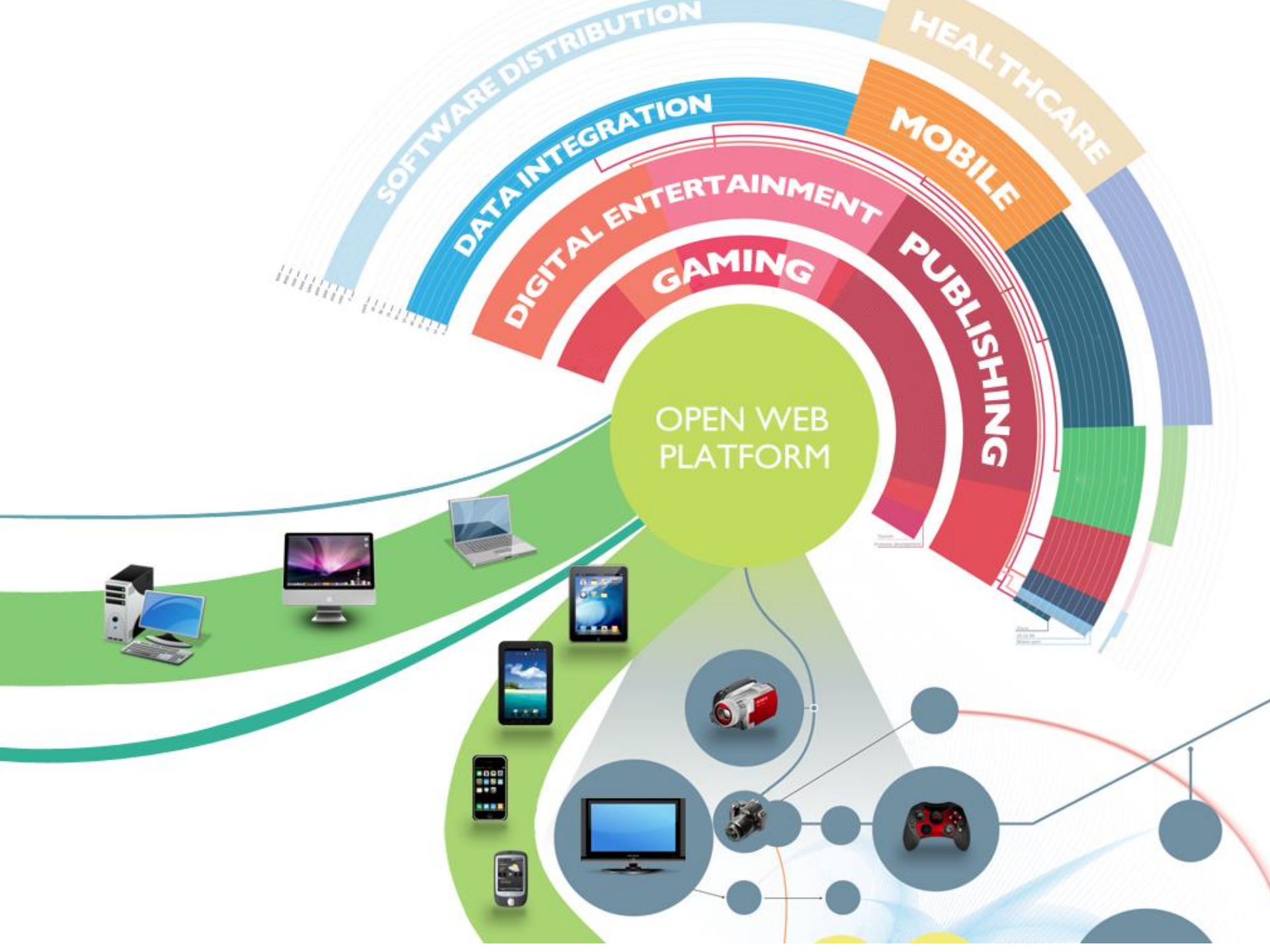
Html5test.com



Exemplos



Futuro





Security and Alarm

Light Control

HVAC Control

Environmental Control

Motion Sensor

Door Control

Window Control

STB

Remote Control

Mobile Web



Mobile Web



HTML





Mobile Web Best Practices 1.0

Basic Guidelines

W3C Recommendation 29 July 2008

This version:

<http://www.w3.org/TR/2008/REC-mobile-bp-20080729/>

Latest version:

<http://www.w3.org/TR/mobile-bp/>

Previous version:

<http://www.w3.org/TR/2006/PR-mobile-bp-20061102/>

Editors:

Jo Rabin, mTLD Mobile Top Level Domain (dotMobi)
Charles McCathieNevile, Opera Software [Early Drafts]

Please refer to the [errata](#) for this document, which may include some normative corrections.

See also [translations](#).



<http://www.w3.org/2010/09/MWABP/mwabp.pdf>



Concepção de flexibilidade



Relembre os princípios da Web



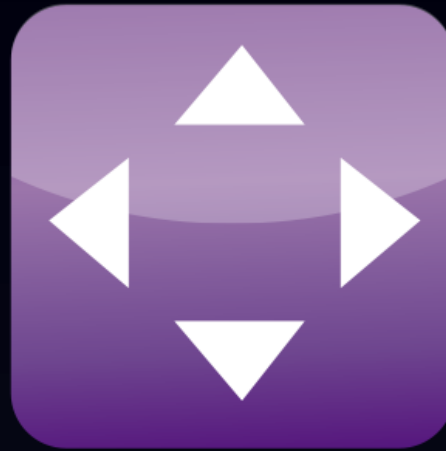
Poupe a rede



Explore características específicas de dispositivos móveis



Otimize o tempo de resposta



Deixe os usuários livres

Um pouco de código





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>

```
<div id="header">
```

```
<div id="nav">
```

```
<div class="article">
```

```
<div class="section">
```

```
<div id="sidebar">
```

```
<div id="footer">
```



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

```
<SCRIPT LANGUAGE="JavaScript">
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++)
{
if (now.getFullYear() != i)
{document.write("<option value="+i+">" +i);}
else
{document.write("<option value="+i+" selected>" +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	-	-	-	-	-	-

`<input type="date">`

<input type=datetime>,

<input type=month>,

<input type=week>,

<input type=time>,

<input type=datetime-local>

Correm o risco de ficar fora da especificação final.

`<input type="email">`

`<input type="url">`

`<input type="tel">`



Exemplo



<http://robertnyman.com/html5/forms/input-types.html>

Exemplo



<http://robertnyman.com/html5/forms/attributes.html>



[Water dropping and clock ticking]

[*plop, plop, plop, ...*]

[*tick, tick, tick, ...*]

```
<video controls="controls" autoplay="autoplay" >  
<source src="video.OGV" type="video/ogg">  
<source src="video.webm" type="video/webm">  
<source src="video.MP4" type="video/mp4">  
</video>
```

Video element - Working Draft

Method of playing videos on webpages (without requiring a plug-in)

*Usage stats:	Global
Support:	84.61%
Partial support:	0.28%
Total:	84.89%

Show all versions	IE	Firefox	Chrome	Safari	Opera	iOS Safari	Opera Mini	Android Browser	BlackBerry Browser
								2.1	
								2.2	
						3.2		2.3	
						4.0-4.1		3.0	
	8.0	20.0				4.2-4.3		4.0	
	9.0	21.0	26.0	5.1		5.0-5.1		4.1	7.0
Current	10.0	22.0	27.0	6.0	12.1	6.0-6.1	5.0-7.0	4.2	10.0
Near future	11.0	23.0	28.0	7.0	15.0	7.0			
Farther future		24.0	29.0						

Sub-features: [WebM/VP8 video format](#) [MPEG-4/H.264 video format](#) [Ogg/Theora video format](#)

[Notes](#)
[Known issues \(0\)](#)
[Resources \(7\)](#)
[Feedback](#)

[Edit on GitHub](#)

Different browsers have support for different video formats, see sub-features for details. The Android browser (before 2.3) requires [specific handling](#) to run the video element.

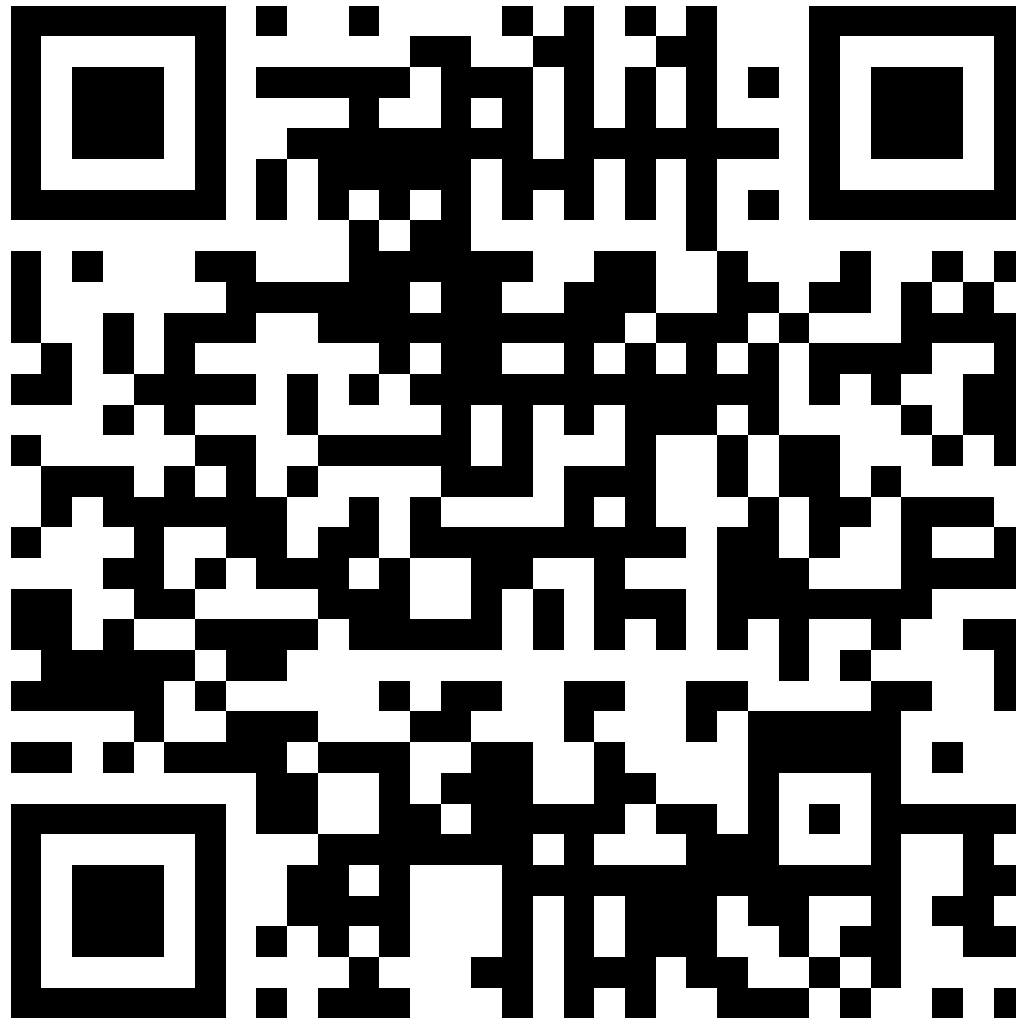
<http://caniuse.com/#search=video>

Exemplo



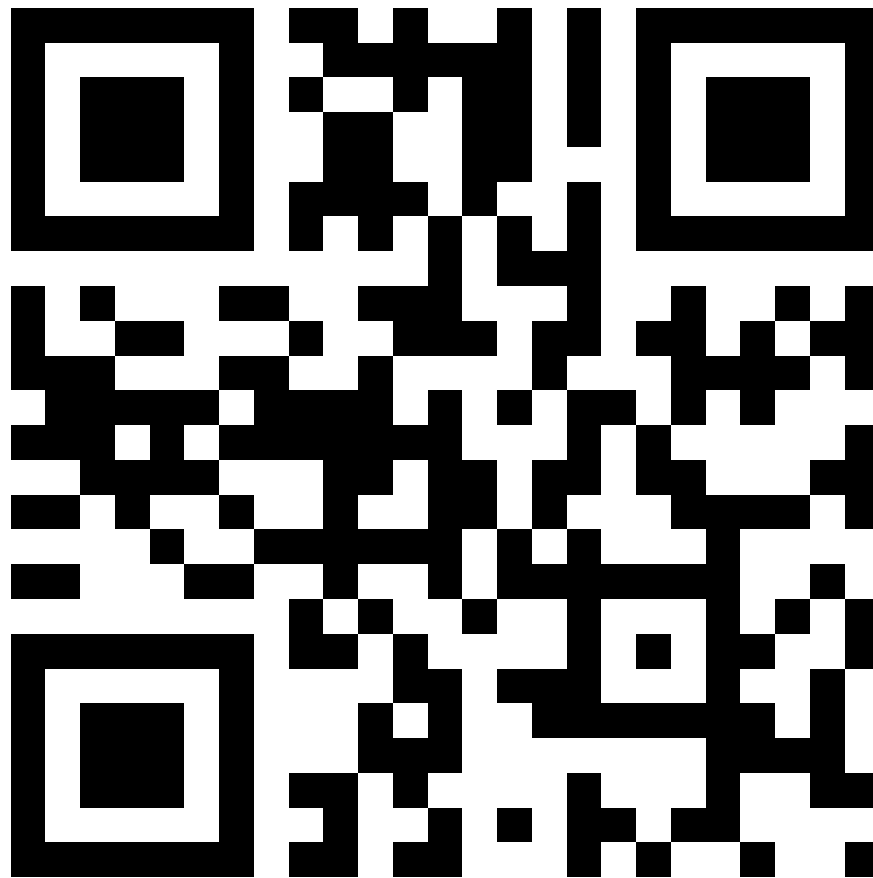
<http://www.w3.org/2009/02/ThisIsCoffee.html>

Exemplo



<http://conferenciaweb.w3c.br/2012/luli.htm>

Exemplo



<http://html5demos.com/geo>

Geolocation - Candidate Recommendation

Method of informing a website of the user's geographical location

*Usage stats:	Global
Support:	84.26%
Partial support:	0.02%
Total:	84.28%

Show all versions	IE	Firefox	Chrome	Safari	Opera	iOS Safari	Opera Mini	Android Browser	Blackberry Browser
								2.1	
								2.2	
						3.2		2.3	
						4.0-4.1		3.0	
	8.0	21.0				4.2-4.3		4.0	
	9.0	22.0	27.0	5.1		5.0-5.1		4.1	7.0
Current	10.0	23.0	28.0	6.0	15.0	6.0-6.1	5.0-7.0	4.2	10.0
Near future	11.0	24.0	29.0	7.0	16.0	7.0			

Notes

Known issues (2)

Resources (4)

Feedback

[Edit on GitHub](#)

No notes

Exemplo



<http://html5demos.com/offline>

Offline web applications ↗



4+



4+



4+



11+



10+



3.2+



3+



Mini

—



Mobile

11+

Data courtesy of caniuse.com ↗ and [Chrome Platform Status](#) ↗.



Media Queries

W3C Recommendation 19 June 2012

This Version:

<http://www.w3.org/TR/2012/REC-css3-mediaqueries-20120619/>

Latest Version:

<http://www.w3.org/TR/css3-mediaqueries/>

Latest Editor's Draft:

<http://dev.w3.org/csswg/css3-mediaqueries/>

Previous Version:

<http://www.w3.org/TR/2012/PR-css3-mediaqueries-20120426/>

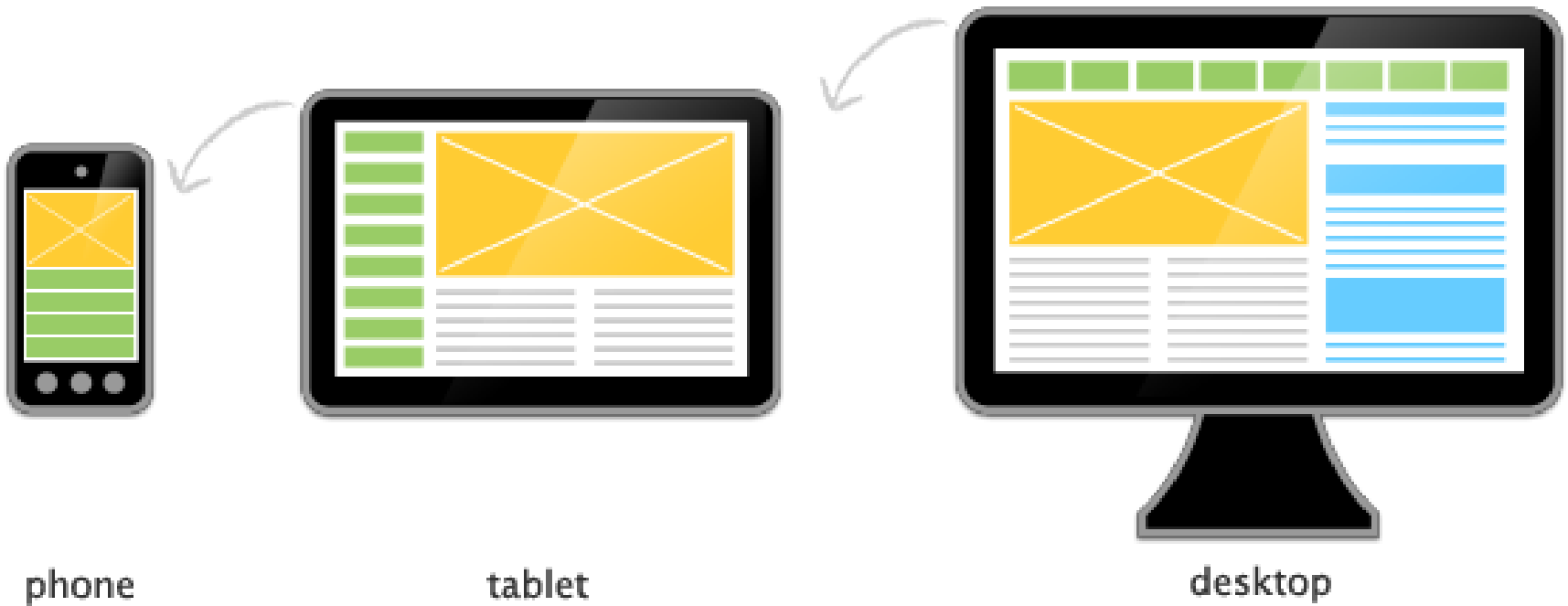
Disposition of Comments:

<http://www.w3.org/Style/2012/MediaQueriesDisposalOfComments.html>

Editors:

Florian Rivoal <florianr@opera.com>

Previous Editors:



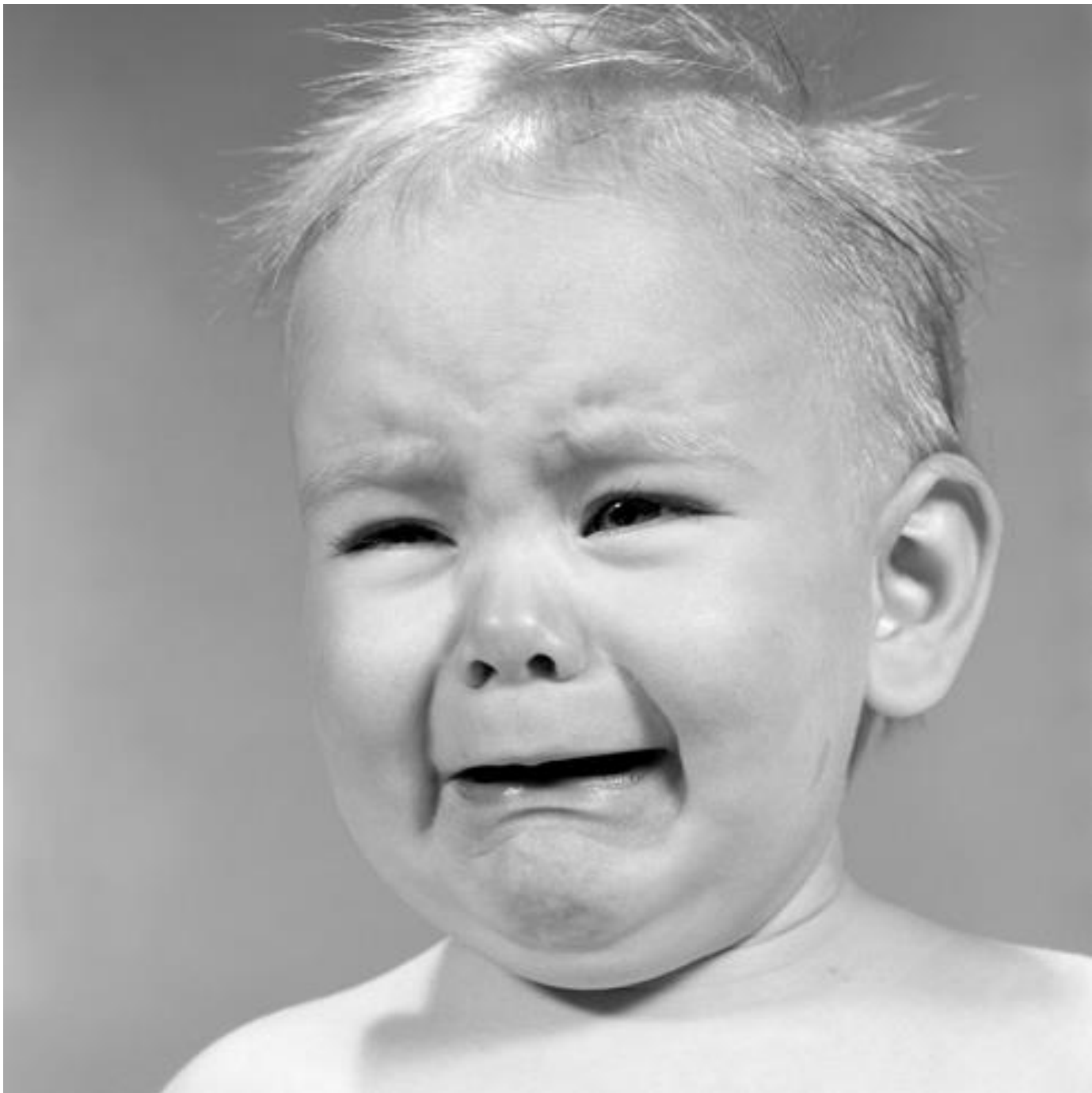

```
@media all and (min-width:500px)  
{ ... }
```

```
@media (min-width:500px)  
{ ... }
```

Exemplo



<http://www.w3c.br>



Browsers desktop

current

	Score	Bonus	
Maxthon 4.0 »	476	15	
Chrome 28 »	463	13	
Opera 15 »	423	9	
Firefox 22 »	410	14	
Safari 6.0 »	378	8	
Internet Explorer 10 »	<i>Microsoft Surface and others</i>	320	6

<http://html5test.com/>

Browsers mobile

current

		Score	Bonus
BlackBerry 10.1 »		485	11
	<i>BlackBerry Q or Z series</i>		
Opera Mobile 15 »		428	11
	<i>Android</i>		
Firefox Mobile 22 »		422	14
	<i>Multiple platforms</i>		
Chrome 25 »		417	11
	<i>All Android 4 devices</i>		
Opera Mobile 12.10 »		406	12
	<i>Multiple platforms</i>		
iOS 6.0 »		386	9
	<i>Apple iPhone, iPad and iPod Touch</i>		
Windows Phone 8 »		320	6
	<i>Nokia Lumia 822, HTC 8X and others</i>		
Android 4.0 »		297	3
	<i>Samsung Galaxy Nexus</i>		
Bada 2.0 »		283	9
	<i>Samsung Wave and others</i>		
Nokia Belle FP 2 »	S60 5.5	272	9
	<i>Nokia 808 PureView and others</i>		
Nokia Xpress »		239	2
	<i>Windows Phone or S40</i>		

<http://html5test.com/>

“An indispensable tool.”

— Bruce Bowman, sr. product manager, Edge Tools & Services

Modernizr is a JavaScript library that detects HTML5 and CSS3 features in the user’s browser.

Why use Modernizr?

Taking advantage of cool new web technologies is great fun, until you have to support browsers that lag behind. Modernizr makes it easy for you to write conditional JavaScript *and* CSS to handle each situation, whether a browser supports a feature or not. It’s perfect for doing progressive enhancement easily.

How it works

Modernizr runs quickly on page load to detect features; it then creates a JavaScript object with the results, and adds classes to the `html` element for you to key your CSS on. Modernizr supports dozens of tests, and optionally includes [YepNope.js](#) for conditional loading of external JavaScript resources.

Download Modernizr 2.6.2

[View documentation](#)

Use the commented, uncompressed Development version to develop with and learn from.



DEVELOPMENT

Uncompressed, 42 Kb

Then, dive into the Production build tool and pick just the tests you need!



PRODUCTION

Configure Your Build

Get started with Modernizr

While Modernizr gives you finer control over the experience through JavaScript-driven feature detection, it is important to continue to use best practices throughout your development process. Use progressive enhancement wherever you can, and don’t sacrifice accessibility for convenience or performance.

- [Documentation: Getting started](#)
- [Taking Advantage of HTML5 and CSS3 with Modernizr](#), Faruk Ateş
- [How to use Modernizr](#), Inayaili de León
- [Modernizr: front-end development done right](#), Ryan Seddon



Rest in peace

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

CSS



Prefixos

-webkit-

-moz-



```
#example1 {  
width: 500px;  
height: 250px;  
background-image: url(sheep.png), url(betweengrassandsky.png);  
background-position: center bottom, left top;  
background-repeat: no-repeat;  
}
```

Exemplo



<http://www.css3.info/preview/multiple-backgrounds/>

CSS3 Multiple backgrounds - Candidate Recommendation

*Usage stats: Global
Support: 87.1%

Method of using multiple images as a background

Show all versions	IE	Firefox	Chrome	Safari	Opera	iOS Safari	Opera Mini	Android Browser	BlackBerry Browser
								2.1	
								2.2	
						3.2		2.3	
						4.0-4.1		3.0	
	8.0	21.0				4.2-4.3		4.0	
	9.0	22.0	27.0	5.1		5.0-5.1		4.1	7.0
Current	10.0	23.0	28.0	6.0	15.0	6.0-6.1	5.0-7.0	4.2	10.0
Near future	11.0	24.0	29.0	7.0	16.0	7.0			

Notes

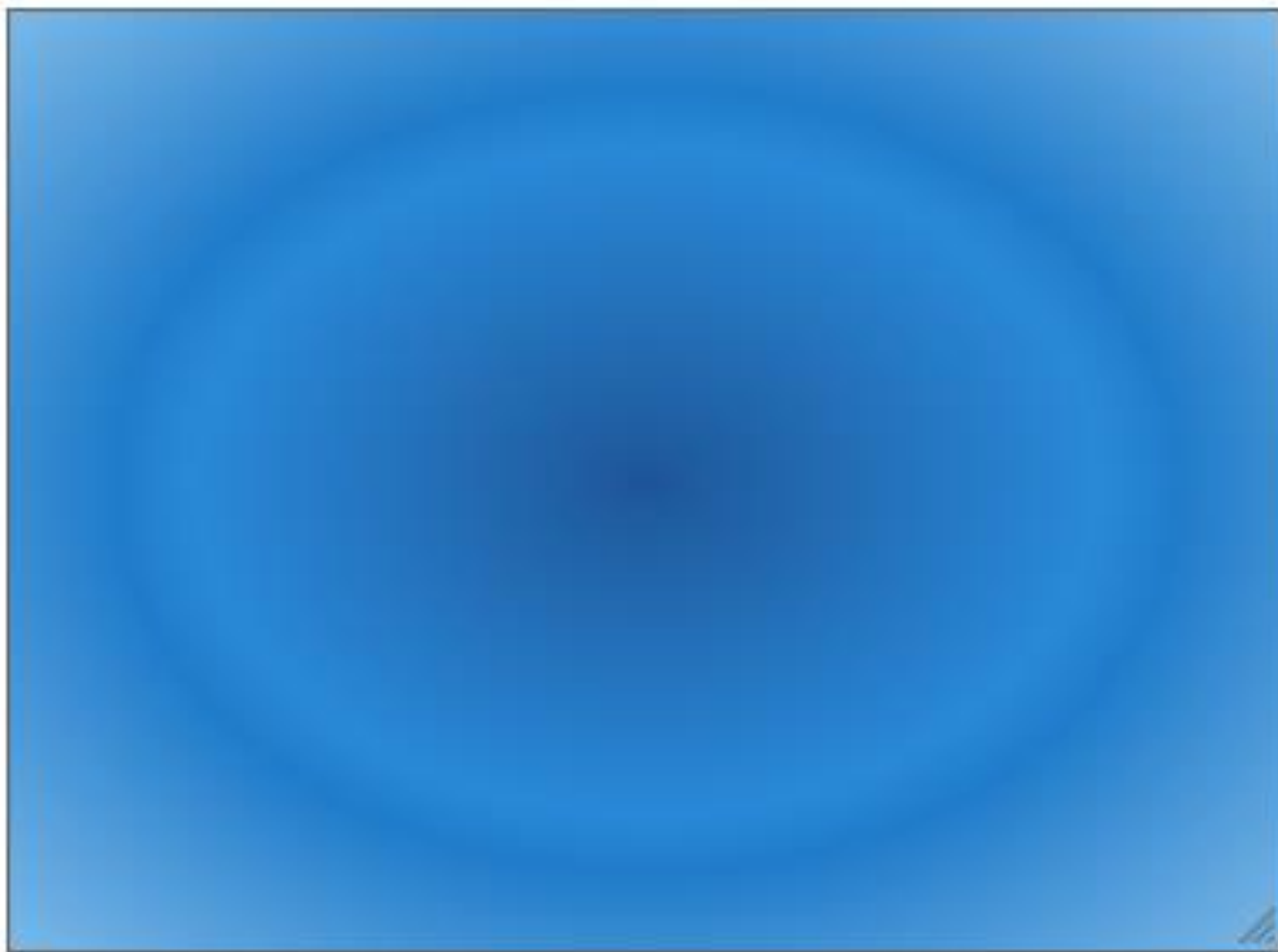
Known issues (1)

Resources (4)

Feedback

[Edit on GitHub](#)

No notes



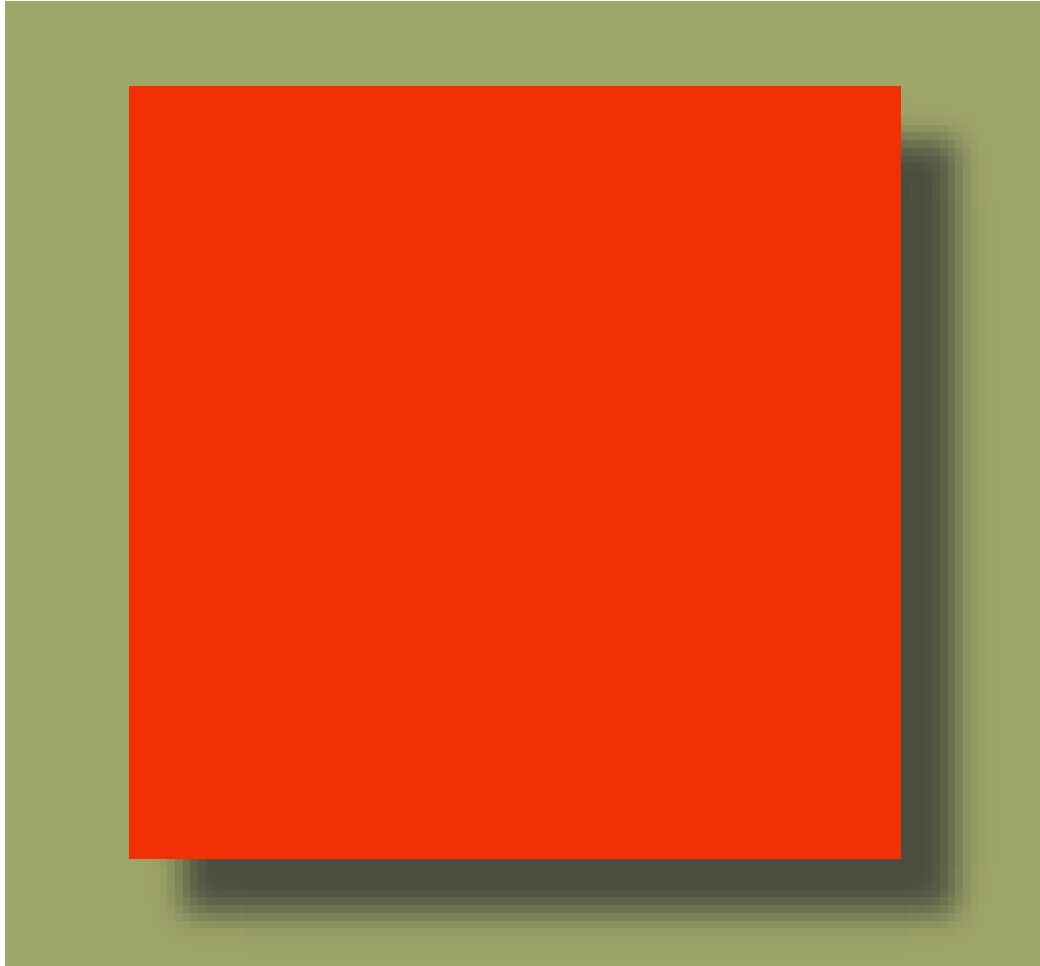
```
-webkit-border-radius: 20px;  
-moz-border-radius: 20px;  
border-radius: 20px;
```

WebKit Gecko CSS3

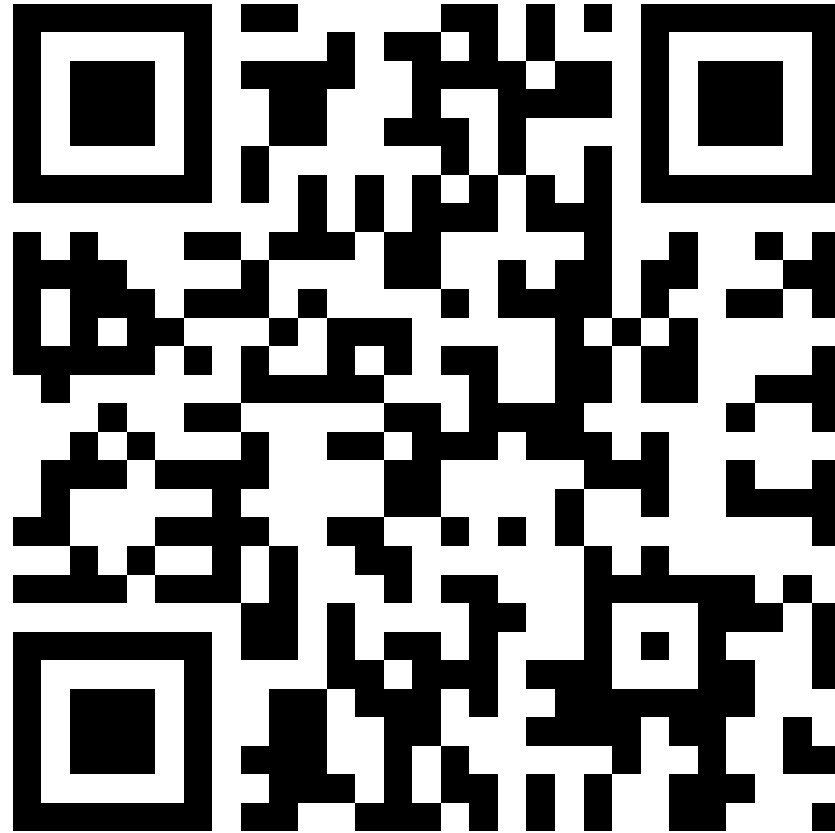
Exemplo



<http://border-radius.com/>



Exemplo



<http://css3gen.com/box-shadow/>

CSS3 Box-shadow - Candidate Recommendation

Method of displaying an inner or outer shadow effect to elements

*Usage stats:	Global
Support:	82.14%
Partial support:	2.34%
Total:	84.48%

Show all versions	IE	Firefox	Chrome	Safari	Opera	iOS Safari	Opera Mini	Android Browser	Blackberry Browser
								2.1 -webkit-	
								2.2 -webkit-	
						3.2 -webkit-		2.3 -webkit-	
						4.0-4.1 -webkit-		3.0 -webkit-	
	8.0	21.0				4.2-4.3 -webkit-		4.0	
	9.0	22.0	27.0	5.1		5.0-5.1		4.1	7.0 -webkit-
Current	10.0	23.0	28.0	6.0	15.0	6.0-6.1	5.0-7.0	4.2	10.0
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Notes [Known issues \(2\)](#) [Resources \(6\)](#) [Feedback](#)

[Edit on GitHub](#)

Can be partially emulated in older IE versions using the non-standard "shadow" filter. Partial support in Safari, iOS Safari and Android Browser refers to missing "inset" and blur radius value support.

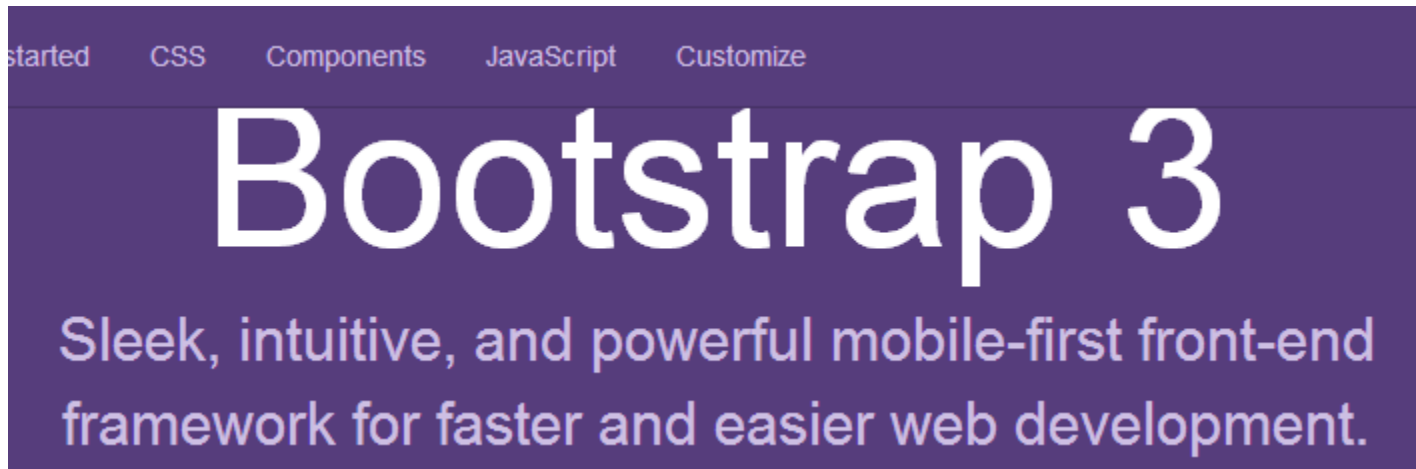
Go00000000oogle >
1 2 3 4 5 6 7 8 9 10 [Next](#)



10 Dicas rápidas para desenvolvimento web mobile

Um resumo baseado em
<http://mobilewebbestpractices.com>

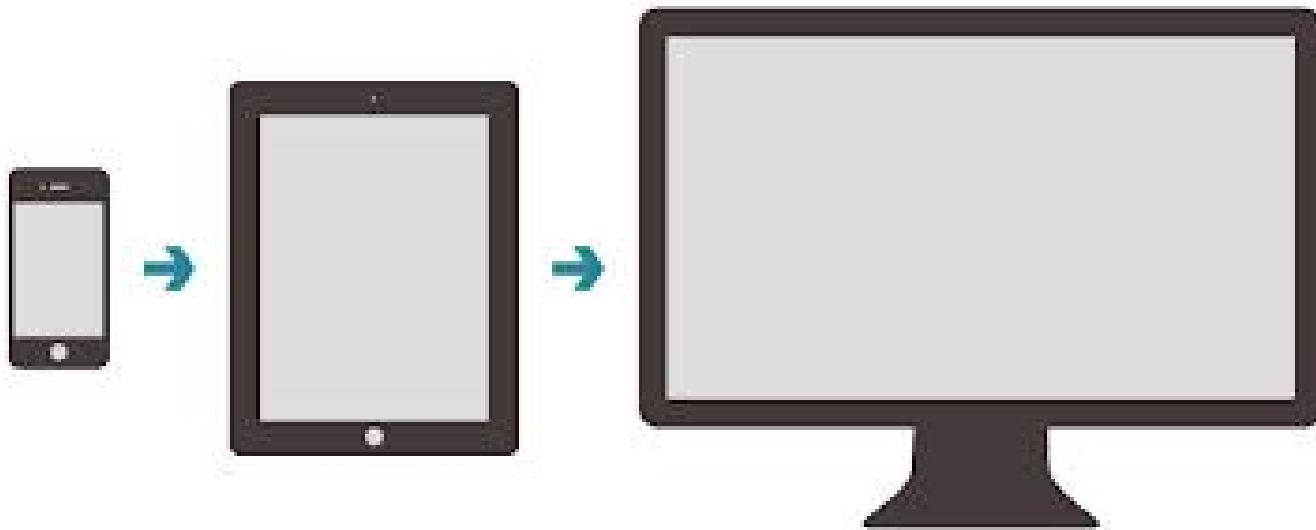
Saiba quando usar um framework



Não reduza o tamanho do seu site do desktop



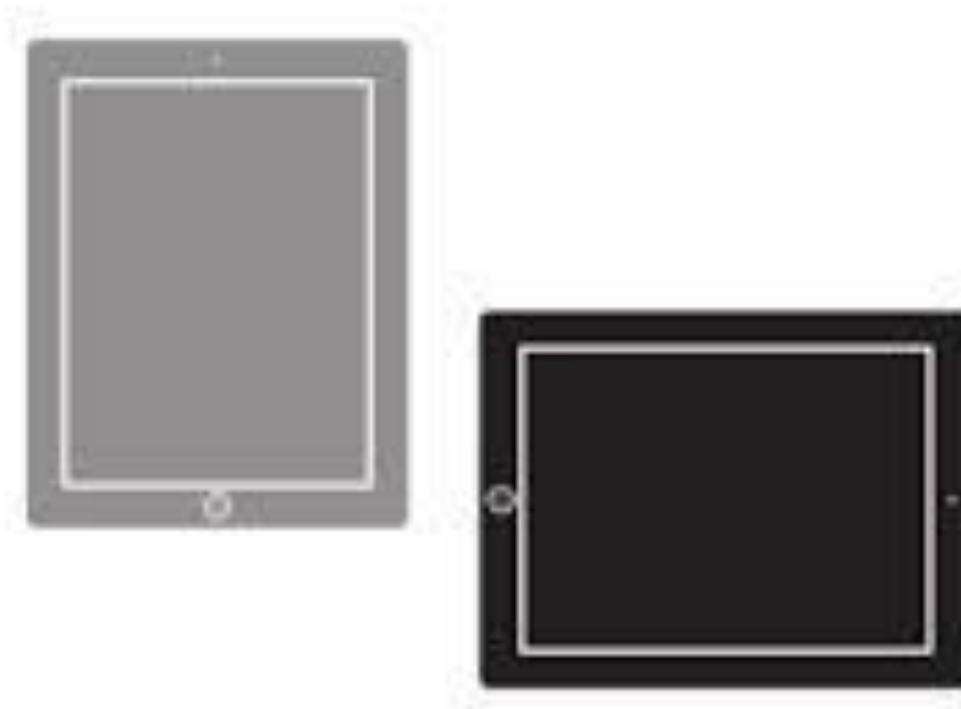
Utilize a estratégia de Mobile First



Estruturação do conteúdo é importante



Desenvolva para múltiplas formas de entrada e navegação



Mantenha os formulários simples



Proporcione link para o site completo



Use Feature-detection

Modernizr
FRONT-END DEVELOPMENT DONE RIGHT

DOWNLOAD DOCUMENTATION RESOURCES NEWS

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- [Modernizr: front-end development done right.](#) Ryan Seddon

Otimizar performance



<http://browserdiet.com/pt/>

Use Emuladores para testes



<http://www.mobilexweb.com/emulators>

Reinaldo Ferraz

W3C Escritório Brasil

www.w3c.br

Twitter: @w3cbrasil

reinaldo@nic.br

Twitter: @reinaldoferraz