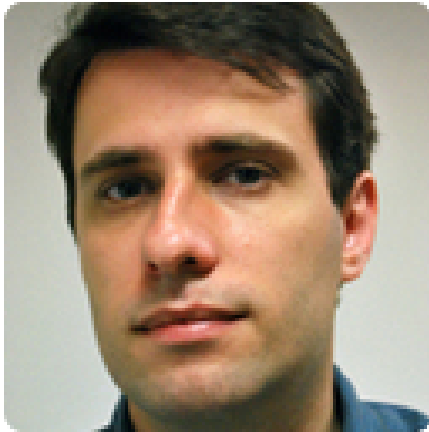


# 30 minutos de HTML5

Reinaldo Ferraz



# Reinaldo Ferraz

@reinaldoferraz

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

São Paulo



**HTML**





## 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



## HTML5

A vocabulary and associated APIs for HTML and XHTML

W3C Candidate Recommendation 17 December 2012

**This Version:**

<http://www.w3.org/TR/2012/CR-html5-20121217/>

**Latest Published Version:**

<http://www.w3.org/TR/html5/>

**Latest Editor's Draft:**

<http://www.w3.org/html/wg/drafts/html/CR/>

**Previous Versions:**

<http://www.w3.org/TR/2012/WD-html5-20121025/>

<http://www.w3.org/TR/2012/WD-html5-20120329/>

<http://www.w3.org/TR/2011/WD-html5-20110525/>

<http://www.w3.org/TR/2011/WD-html5-20110405/>

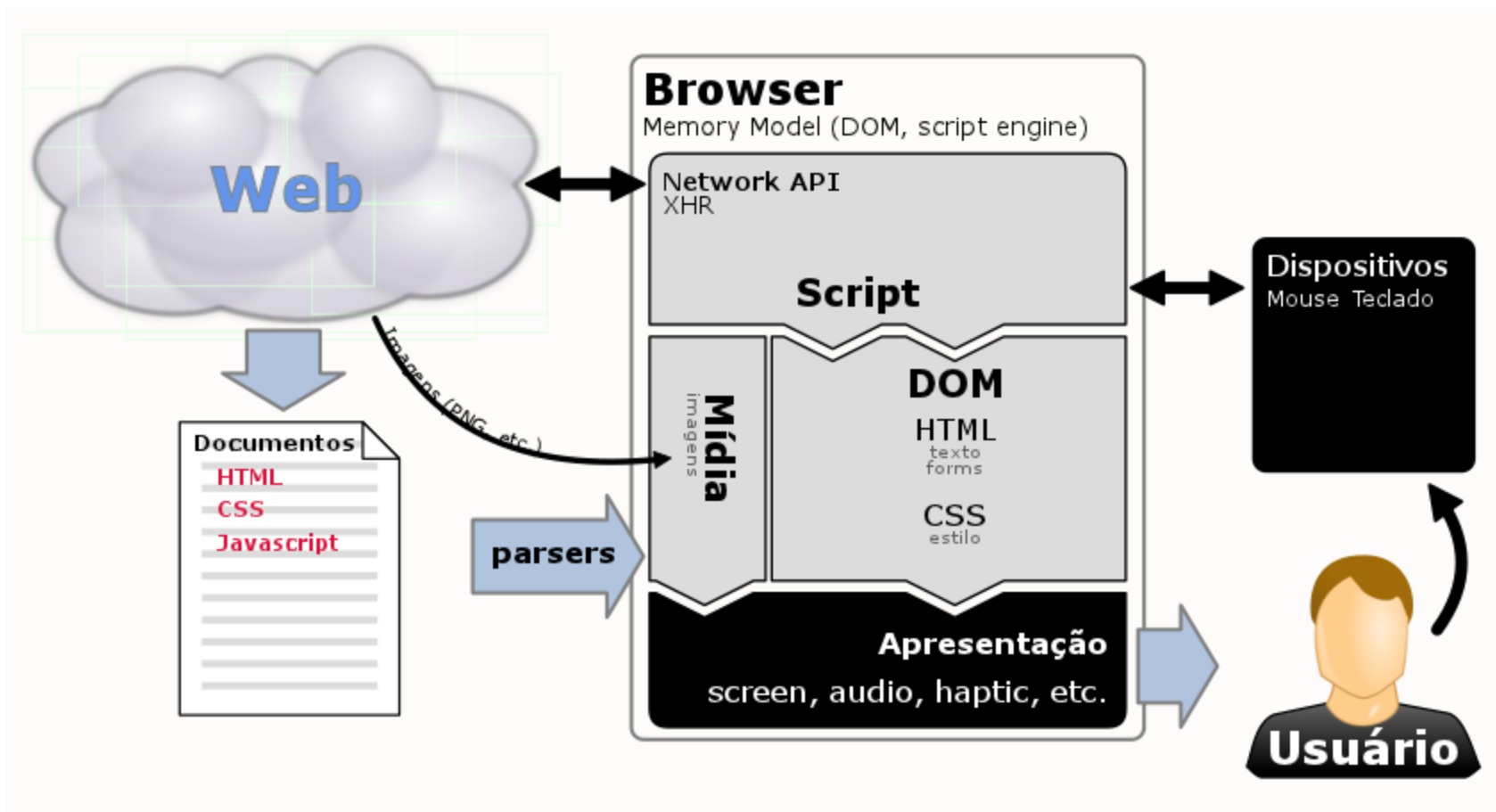
<http://www.w3.org/TR/2011/WD-html5-20110113/>

<http://www.w3.org/TR/2010/WD-html5-20101019/>

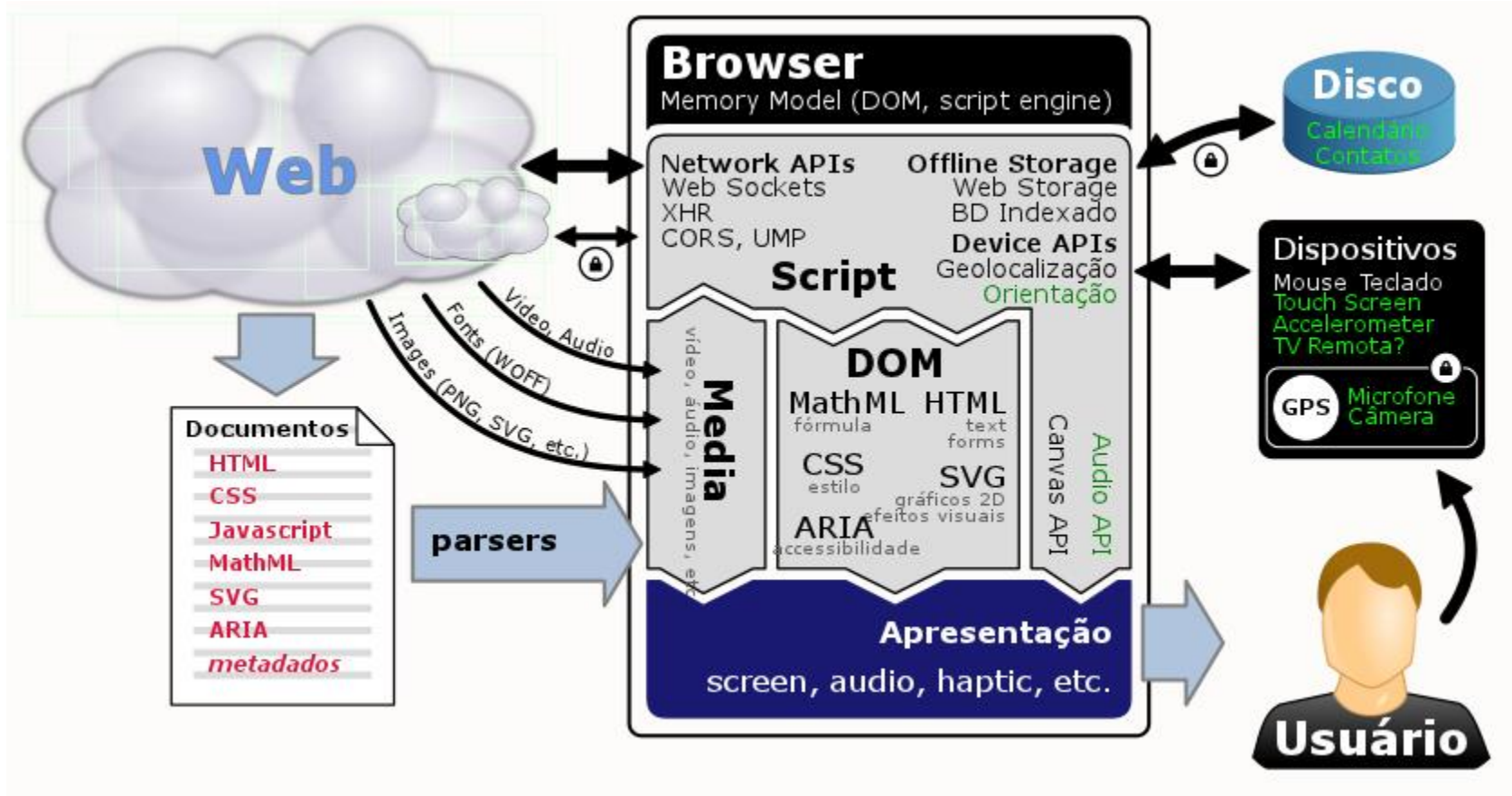
<http://www.w3.org/TR/2010/WD-html5-20100624/>

<http://www.w3.org/TR/2010/WD-html5-20100304/>

# WEB 2001



# WEB 2011





# HTML



Por quê?

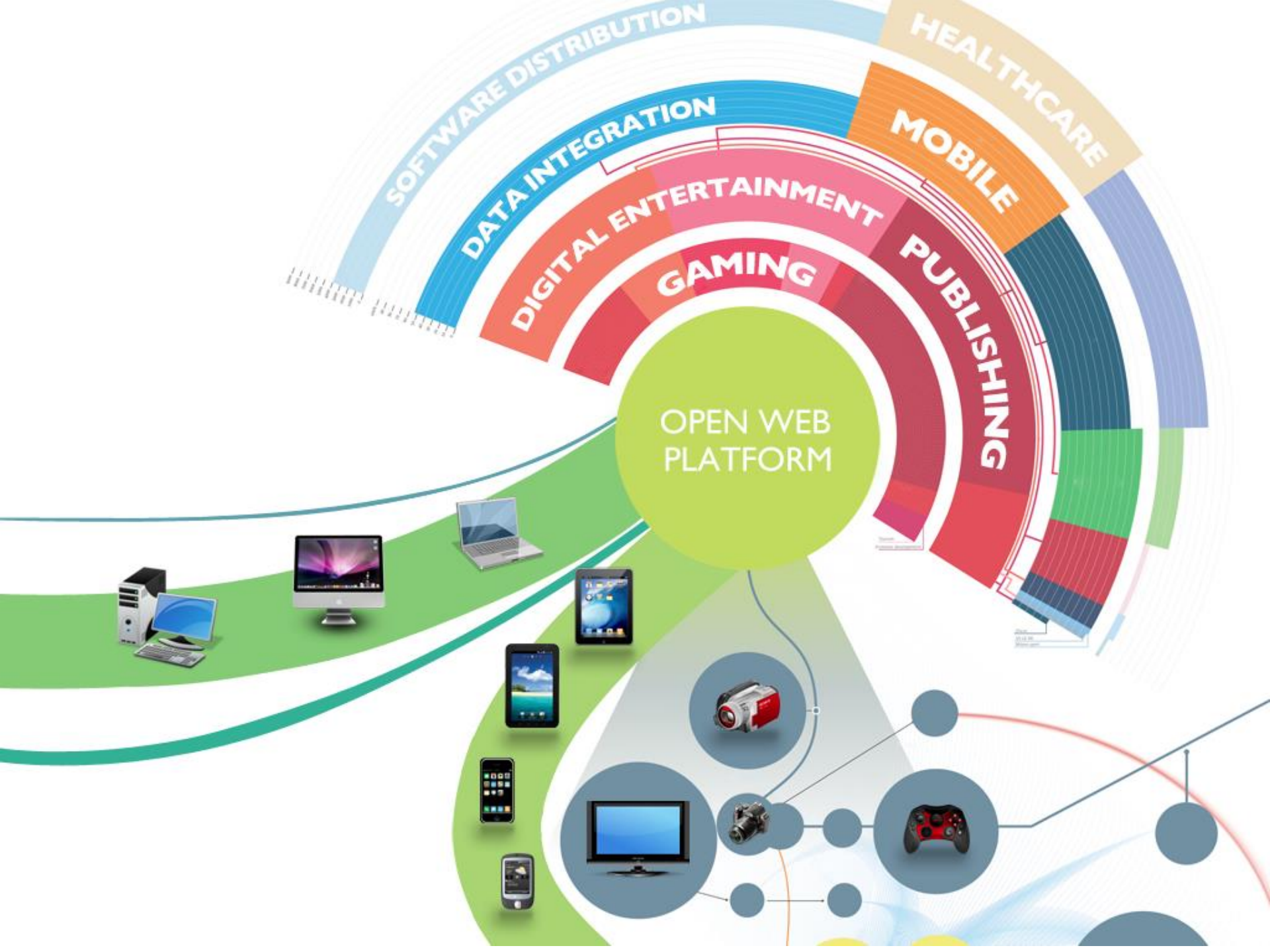




[Html5test.com](http://Html5test.com)







**HTML**



# 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">
```

<header>

<nav>

<section>

<header>

<aside>

<article>

<footer>

<footer>

**Address**

Street Address

Address Line 2

# Formulários

Submit

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

```

<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.getYear() != 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">`

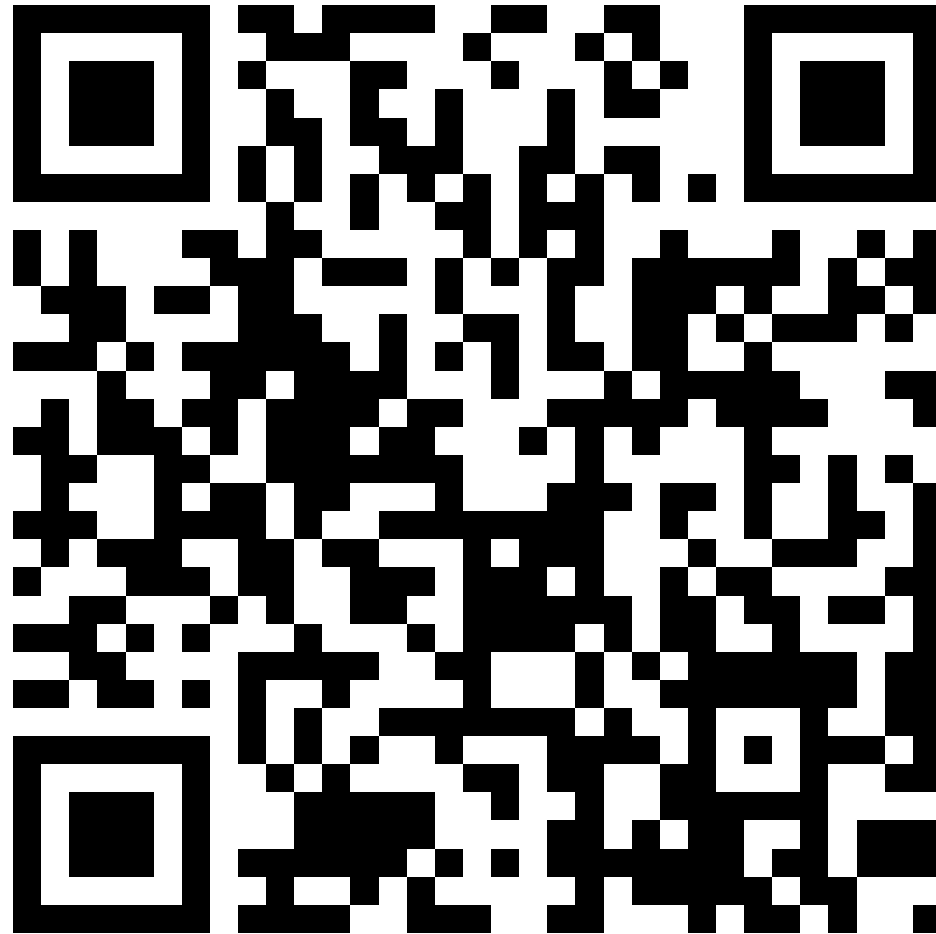
`<input type="url">`

`<input type="tel">`





# Exemplo



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

# Exemplo



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

# Áudio e Vídeo



```
<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>
```

# <http://caniuse.com/#search=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%

<a href="#">Show all versions</a>	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](#)

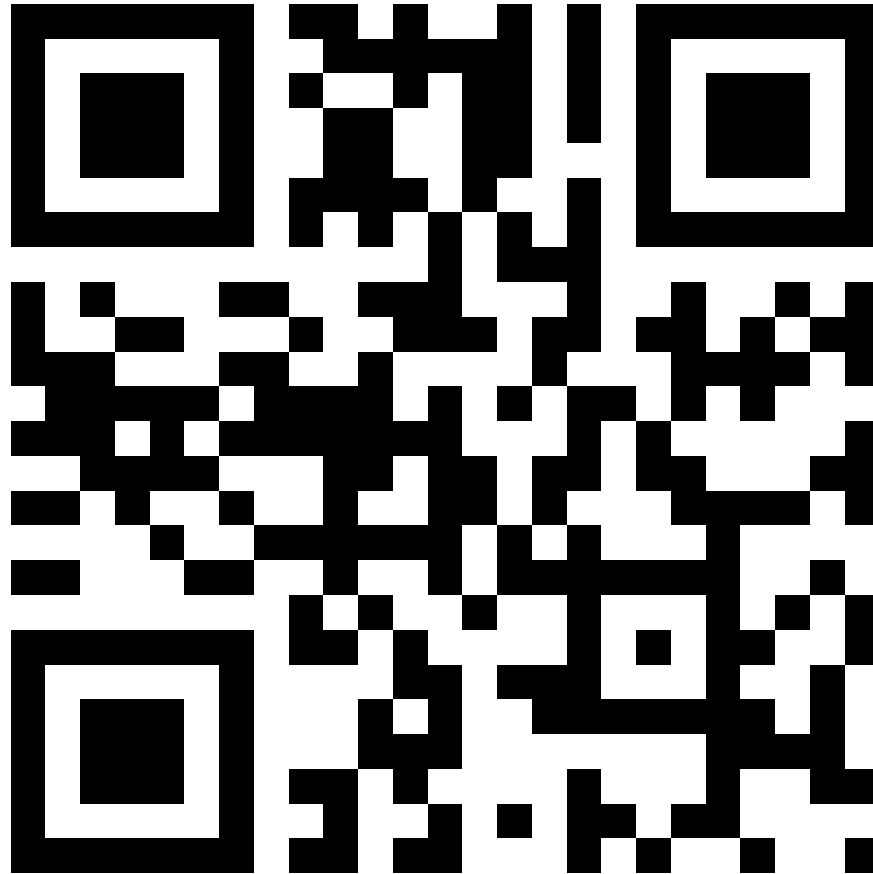
Different browsers have support for different video formats, see sub-features for details. The Android browser (before 2.3) requires [specific handling](#) to run the video element.

# Exemplo



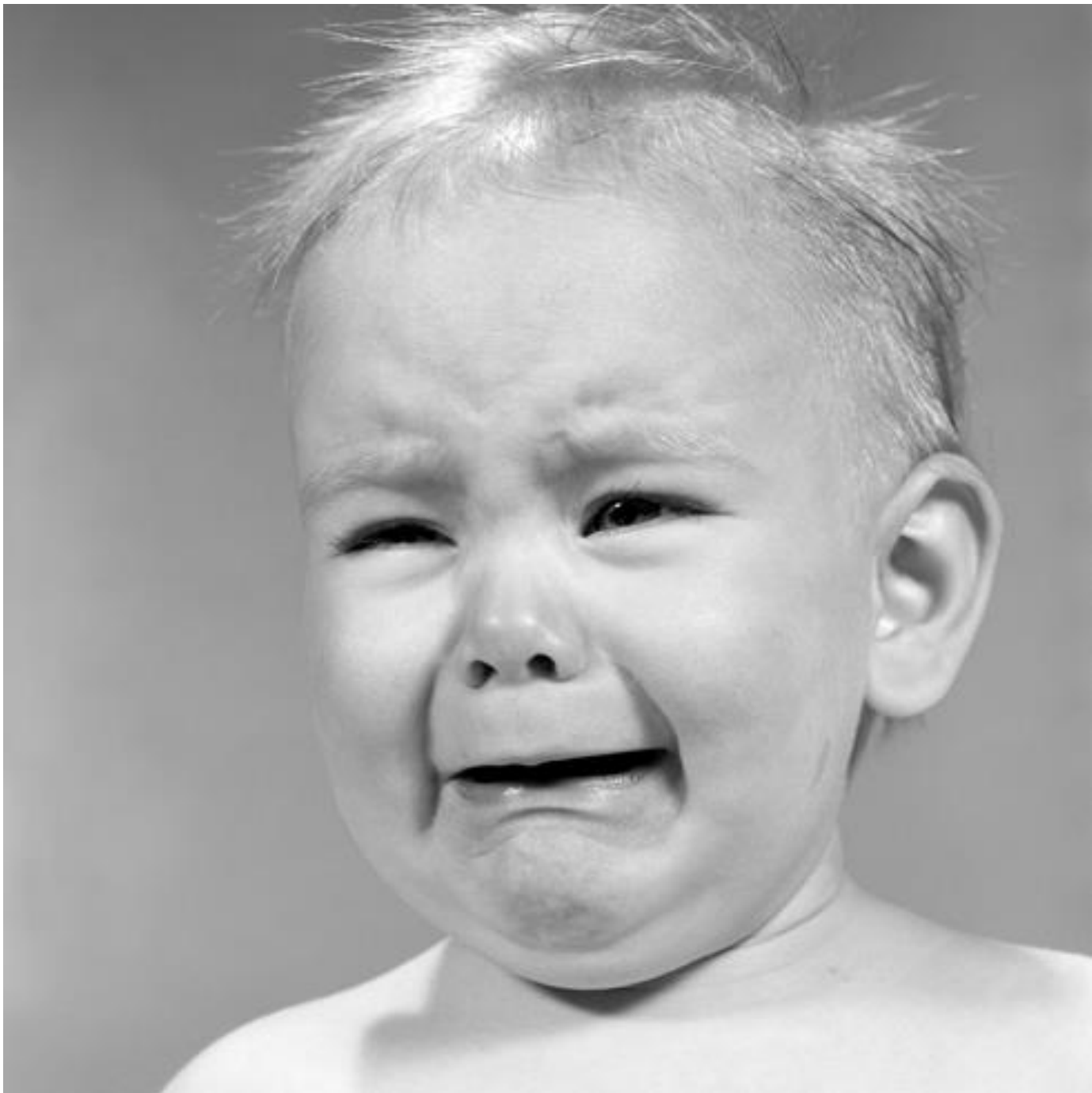
<http://conferenciaweb.w3c.br/2012/luli.htm>

# Exemplo



<http://html5demos.com/geo>





## Browsers desktop

**current**

	<b>Score</b>	<b>Bonus</b>
Maxthon 4.0 »	476	15
Chrome 27 »	463	13
Opera 12.10 »	419	9
Firefox 22 »	410	14
Safari 6.0 »	378	8
Internet Explorer 10 »	<i>Microsoft Surface and others</i>	6

## Browsers mobile

		Score	Bonus
Opera Mobile 14 »	<i>Android</i>	448	11
Firefox Mobile 22 »	<i>Multiple platforms</i>	422	14
Chrome 25 »	<i>All Android 4 devices</i>	417	11
RIM Tablet OS 2.1 »	<i>BlackBerry PlayBook</i>	411	9
Opera Mobile 12.10 »	<i>Multiple platforms</i>	406	12
iOS 6.0 »	<i>Apple iPhone, iPad and iPod Touch</i>	386	9
Silk 2.2 »	<i>Amazon Kindle Fire</i>	358	13
Internet Explorer 10 »	<i>Microsoft Surface and others</i>	320	6
Android 4.0 »	<i>Asus Transformer Prime and others</i>	297	3
webOS 3.0 »	<i>HP TouchPad</i>	224	7

“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 JS and CSS 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

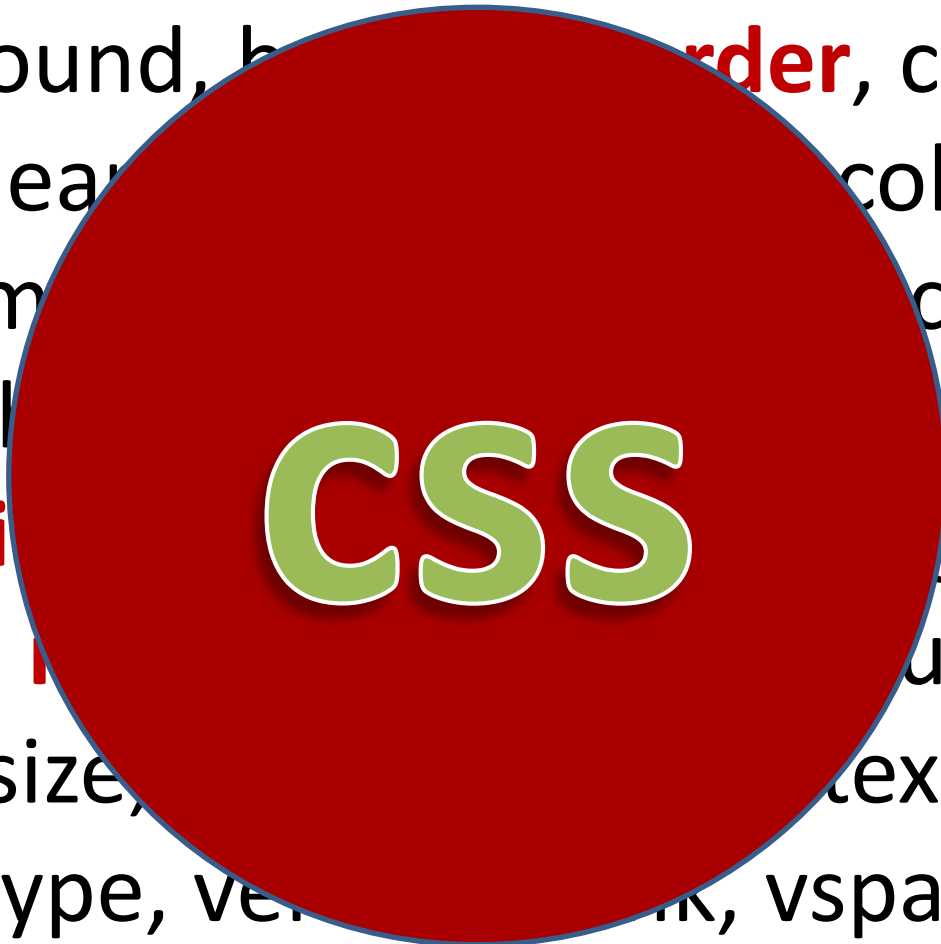
While Modernizr gives you finer control over the experience through JavaScript-driven feature detection, it is important to continue to use best practices throughout your development process. Use progressive enhancement wherever you can, and don’t sacrifice accessibility for convenience or performance.

- [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



**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,  
classid, clear, color, compact,  
frame, link,  
marginleft, marginwidth,  
**margi**  
noshade, rules, scheme,  
scrolling, size, text, urn, **valign**,  
valuetype, vlink, vspace, **width**

Obrigado!

**Reinaldo Ferraz**  
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