

# Support par les navigateurs

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Mai 2012

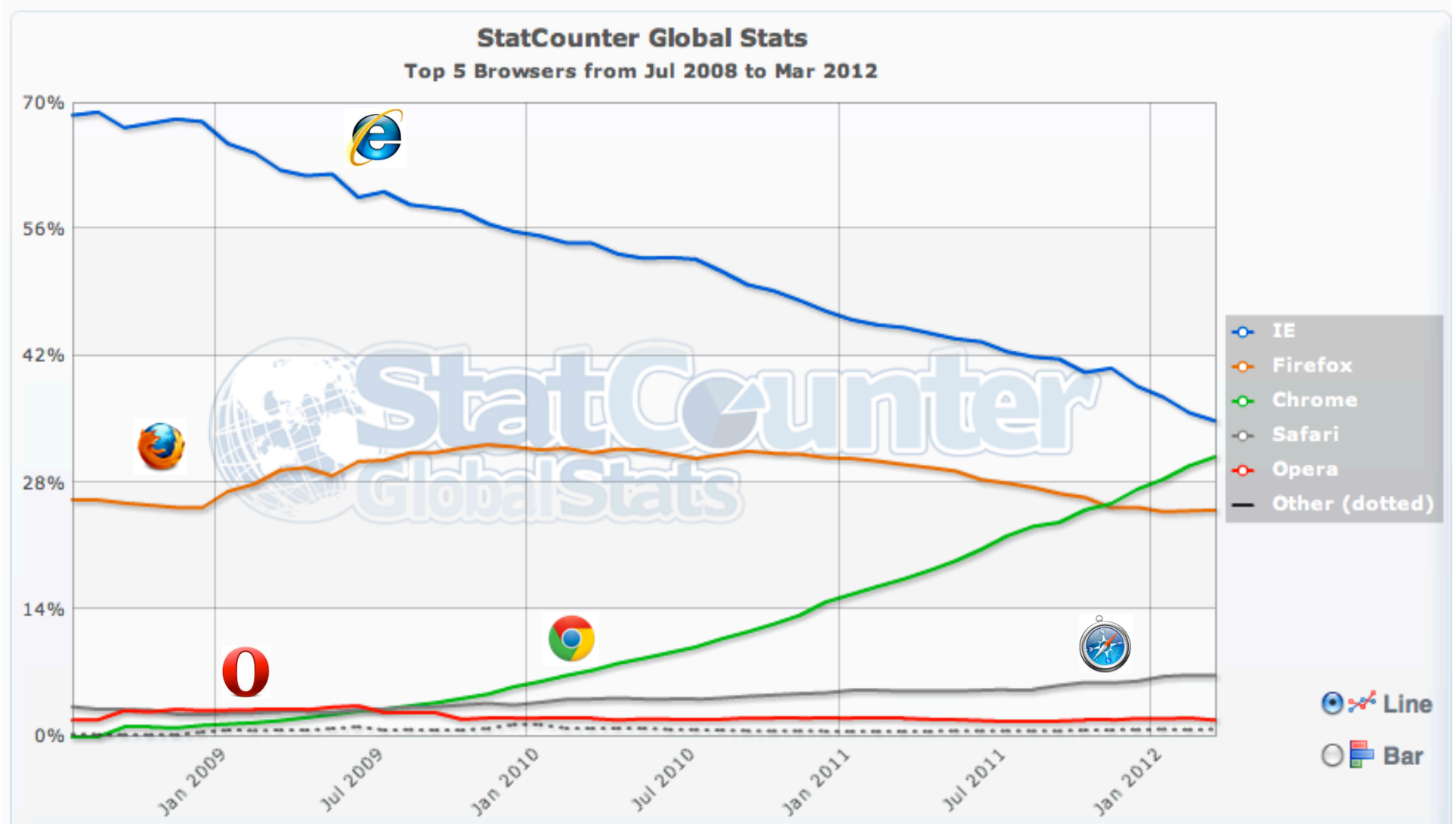
ANF Mathrice



# Support par les navigateurs

## parts de marché

<http://gs.statcounter.com>



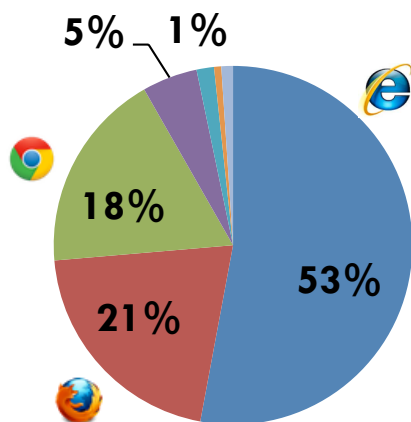
# Support par les navigateurs

## parts de marché

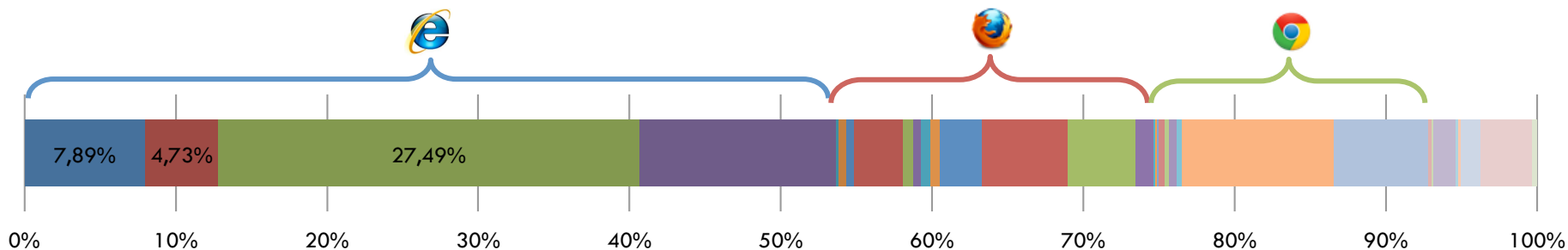


### Total Market Share

<http://www.netmarketshare.com>



- Microsoft IE
- Firefox
- Chrome
- Safari
- Opera
- Propriétaires & indétectables
- Autres



- IE 6.0
- Firefox 2.0
- Firefox 3.0
- Firefox 3.5
- Firefox 3.6
- Firefox 4.0
- Firefox 5.0
- Firefox 6.0
- Firefox 7.0
- Firefox 8.0
- Firefox 9.0
- Firefox 10
- Firefox 11
- Chrome 1.0
- Chrome 10.0
- Chrome 11.0
- Chrome 12.0
- Chrome 13.0
- Chrome 14.0
- Chrome 15.0
- Chrome 16.0
- Chrome 17.0
- Chrome 18.0
- Opera 10.x
- Opera 11.x
- Safari 4.0
- Safari 4.1
- Safari 5.0
- Safari 5.1
- Proprietary or Undetectable

1<sup>er</sup> trimestre 2012

# Support par les navigateurs

## CSS 2 et 3

= Supported
  = Not supported
  = Partially supported
  = Support unknown

<http://caniuse.com>


# CSS 2.1 selectors - Recommendation

*Allows more accurate element selecting, using >, +, [attr], :first-child, etc.*

Resources: [Detailed support information](#) [Examples of advanced selectors](#) [Selectivizr: Polyfill for IE6-8](#)

\*Usage stats: Global  
 Support:  92.68%

Show all versions	IE	Firefox	Chrome	Safari	Opera	iOS Safari	Opera Mini	Opera Mobile	Android Browser
	6.0	3.6				3.2		10.0	2.1
	7.0	9.0				4.0-4.1		11.0	2.2
	8.0	10.0	17.0	5.0		4.2-4.3		11.5	3.0
Current	9.0	11.0	18.0	5.1	11.6	5.0	5.0-6.0	12.0	4.0
Near future	10.0	12.0	19.0	5.2	12.0				
Farther future		13.0	20.0						


  
 StatCounter

	IE	Firefox	Chrome	Safari	Opera	iOS Safari	Opera Mini	Opera Mobile	Android Browser
								10.0: 54%	2.1: 64%
	6.0: 11%	3.6: 60%				3.2: 66%		11.0: 66%	2.2: 67%
	7.0: 20%	9.0: 84%				4.0-4.1: 71%		11.1: 70%	2.3: 67%
	8.0: 31%	10.0: 86%	17.0: 86%	5.0: 78%		4.2-4.3: 74%		11.5: 70%	3.0: 73%
Current	9.0: 62%	11.0: 86%	18.0: 86%	5.1: 82%	11.6: 73%	5.0: 79%	5.0-6.0: 45%	12.0: 73%	4.0: 76%
Near future	10.0: 90%	12.0: 86%	19.0: 89%	5.2: 84%	12.0: 76%				
Farther future		13.0: 86%	20.0: 89%						

## CSS 2.1 et 3

Status

- All
- Recommendation
- Proposed Rec.
- Candidate Rec.
- Working Draft
- Other
- Unofficial / Note

avril 2012

# Support par les navigateurs

## CSS 2 et 3

[http://en.wikipedia.org/wiki/Comparison\\_of\\_layout\\_engines\\_%28Cascading\\_Style\\_Sheets%29](http://en.wikipedia.org/wiki/Comparison_of_layout_engines_%28Cascading_Style_Sheets%29)

Multi-column Layout <sup>[spec 16]</sup>					
CSS3	column-count	Platform Preview	Experimental <sup>[g 32]</sup>	Experimental	2.8 <sup>[p 4]</sup>
	column-width				
	column-gap				
	column-rule				
	columns		9.0 <sup>[g 33]</sup>		
	break-before	No	No <sup>[g 34]</sup>	Experimental <sup>[w 28]</sup>	
	break-after			No <sup>[w 29]</sup>	
	break-inside				
	column-fill	Platform Preview	12.0 <sup>[g 35]</sup>	No	
	column-span	Platform Preview	No <sup>[g 36]</sup>	Experimental <sup>[w 30]</sup>	
	Trident	Gecko	WebKit	Presto	



<http://caniuse.com>

# CSS3 Multiple column layout - Candidate Recommendation						*Usage stats:		Global
Method of flowing information in multiple columns						Support:		1.51%
Resources: <a href="#">Dev.Opera article</a> <a href="#">Introduction page</a>						Partial support:		58.6%
						Total:		60.11%
Show all versions	IE	Firefox	Chrome	Safari	Opera			
	6.0	3.6	-moz-					
	7.0	9.0	-moz-					
	8.0	10.0	-moz-	17.0	-webkit-	5.0	-webkit-	
Current	9.0	11.0	-moz-	18.0	-webkit-	5.1	-webkit-	11.6
Near future	10.0	12.0	-moz-	19.0	-webkit-	5.2	-webkit-	12.0
Farther future		13.0	-moz-	20.0	-webkit-			

### Support

- CSS 1 total
- W3C Rec. CSS 2.1&3 presque total
- W3C WD et CR partiel

### CSS 3





- Support effectif d'un sous-ensemble
- Possibilité d'utiliser les propriétés spécifiques aux moteurs d'affichage

# Support par les navigateurs

## JS, JSON, DOM

[http://en.wikipedia.org/wiki/Comparison\\_of\\_layout\\_engines\\_%28ECMAScript%29](http://en.wikipedia.org/wiki/Comparison_of_layout_engines_%28ECMAScript%29)

	Trident	Gecko	WebKit	Presto
Name of ECMAScript Engine	JScript/Chakra	Spidermonkey/TraceMonkey	JavaScriptCore/SquirrelFish Extreme	Linear B/Futhark /Carakan
ECMAScript Edition 3	Yes	0.6	Yes	1.0
ECMAScript Edition 5	5.0	2.0	No	Yes

[http://en.wikipedia.org/wiki/Comparison\\_of\\_layout\\_engines\\_%28Document\\_Object\\_Model%29](http://en.wikipedia.org/wiki/Comparison_of_layout_engines_%28Document_Object_Model%29)

	Trident	Gecko	WebKit	Presto
DOM1	6.0	1.0	85	1.0
DOM2	Mostly	Mostly	Partial	Mostly
DOM3	No	Partial	Partial	Partial

### Support JSON

IE 8+

Firefox 3.5+

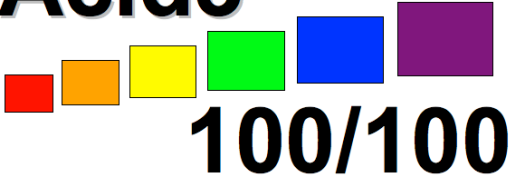
Chrome 3+

Safari 4+

Opera 10.5+

Test de conformité  
CSS, DOM2, ECMAScript

# Acid3



## 100/100

To pass the test, a browser must use its default settings, the animation has to be smooth, the score has to end on 100/100, and the final page has to look exactly, pixel for pixel, like [this reference rendering](#).

<http://acid3.acidtests.org>

# Support par les navigateurs

## AJAX

- IE 5 introduit un contrôle ActiveX XMLHttpRequest
- XMLHttpRequest

Firefox

Mozilla 1.0+ (Netscape 7)

Chrome

Safari 1.2+

Opera 8.0+

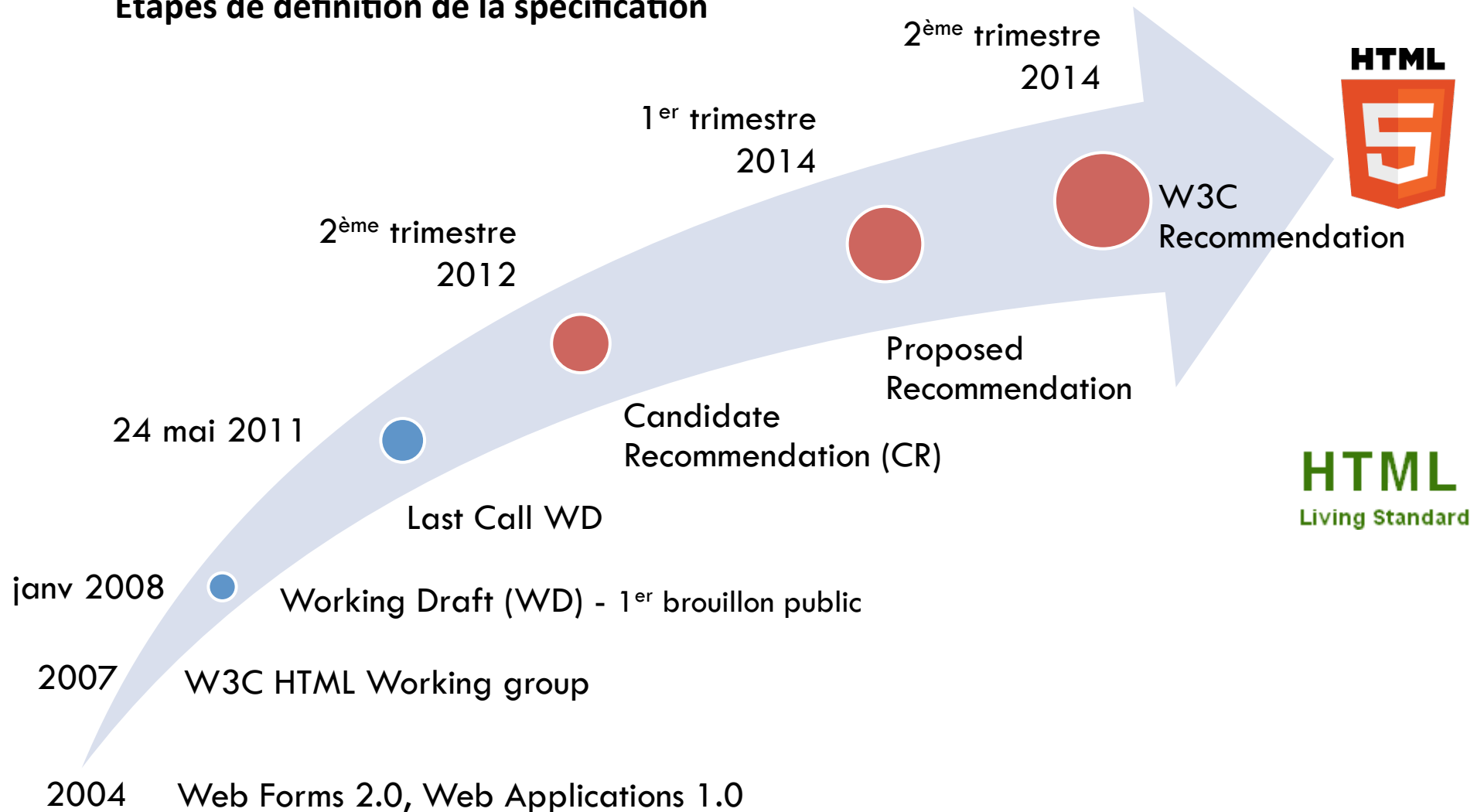
IE 7+

# XMLHttpRequest 2 - Working Draft						*Usage stats:	
Adds more functionality to AJAX requests like file uploads, transfer progress information and the ability to send form data.						Global	
Resources: <a href="#">MDN article on FormData</a> <a href="#">Article with file upload demo</a>						Support:	52.31%
						Partial support:	3.09%
						Total:	55.4%
<a href="#">Show all versions</a>	IE	Firefox	Chrome	Safari	Opera		
	6.0	3.6					
	7.0	9.0					
	8.0	10.0	17.0	5.0			
Current	9.0	11.0	18.0	5.1	11.6		
Near future	10.0	12.0	19.0	5.2	12.0		
Farther future		13.0	20.0				

# Support par les navigateurs

HTML 5

## Etapes de définition de la spécification





# Support par les navigateurs

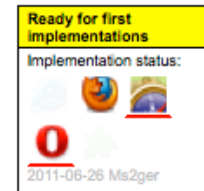
## HTML 5

[http://en.wikipedia.org/wiki/Comparison\\_of\\_layout\\_engines\\_%28HTML5%29](http://en.wikipedia.org/wiki/Comparison_of_layout_engines_%28HTML5%29)



	Trident	Gecko <sup>[g 25]</sup>	WebKit <sup>[w 27]</sup>	Presto <sup>[p 12]</sup>
<b>Attributes</b>				
<b>autocomplete</b>	3.1	Yes	Yes	
<b>list</b>		2.0 <sup>[g 26]</sup>	No <sup>[w 28]</sup>	2.0
<b>required</b>		2.0 <sup>[g 27]</sup>	528	
<b>multiple</b>		1.9.2 <sup>[note 6][g 28]</sup>	526 <sup>[note 6][w 29]</sup>	2.7 <sup>[p 13]</sup>
<b>pattern</b>		2.0 <sup>[g 29]</sup>	528 <sup>[w 30]</sup>	
<b>min, max</b>		No <sup>[g 30][g 31]</sup>	Yes <sup>[w 31]</sup>	2.0
<b>step</b>		No <sup>[g 32]</sup>	528 <sup>[w 32]</sup>	
<b>placeholder</b>		2.0 <sup>[g 33]</sup>	Yes	2.7 <sup>[p 13]</sup>

### 4.10.7.2.6 The **required** attribute



The **required** attribute is a **boolean**

**Constraint validation:** If the element the element's **value** is the empty string

|| The following form has two re-considered valid if the user type

<http://www.whatwg.org/specs/web-apps/current-work>

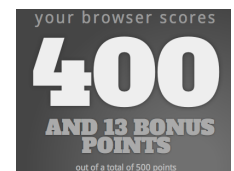
<http://caniuse.com>

= Supported
  = Not supported
  = Partially supported
  = Support unknown

**Show all tables**

#	IE	Firefox	Chrome	Safari	Opera
<b>Form validation - Working Draft</b>					
Method of setting required fields and field types without requiring JavaScript					
		<b>*Usage stats:</b>		<b>Global</b>	
		Support:		47.93%	
		Partial support:		4.1%	
		Total:		52.03%	
<b>Show all versions</b>					
	6.0	3.6			
	7.0	9.0			
	8.0	10.0	17.0	5.0	
Current	9.0	11.0	18.0	5.1	11.6
Near future	10.0	12.0	19.0	5.2	12.0
Farther future		13.0	20.0		

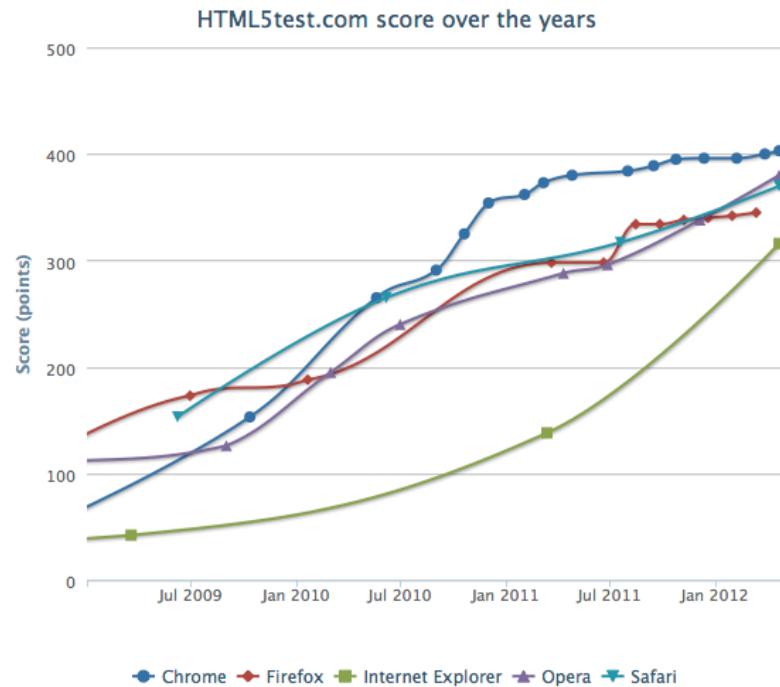
<http://html5test.com>



Forms		74/108
<b>Field types</b>		
▶ input type=text		Yes ✓
▶ input type=search		Yes ✓
▶ input type=tel		Yes ✓
▶ input type=url		Yes ✓
▶ input type=email		Yes ✓
▶ input type=datetime		No ✗

# Support par les navigateurs

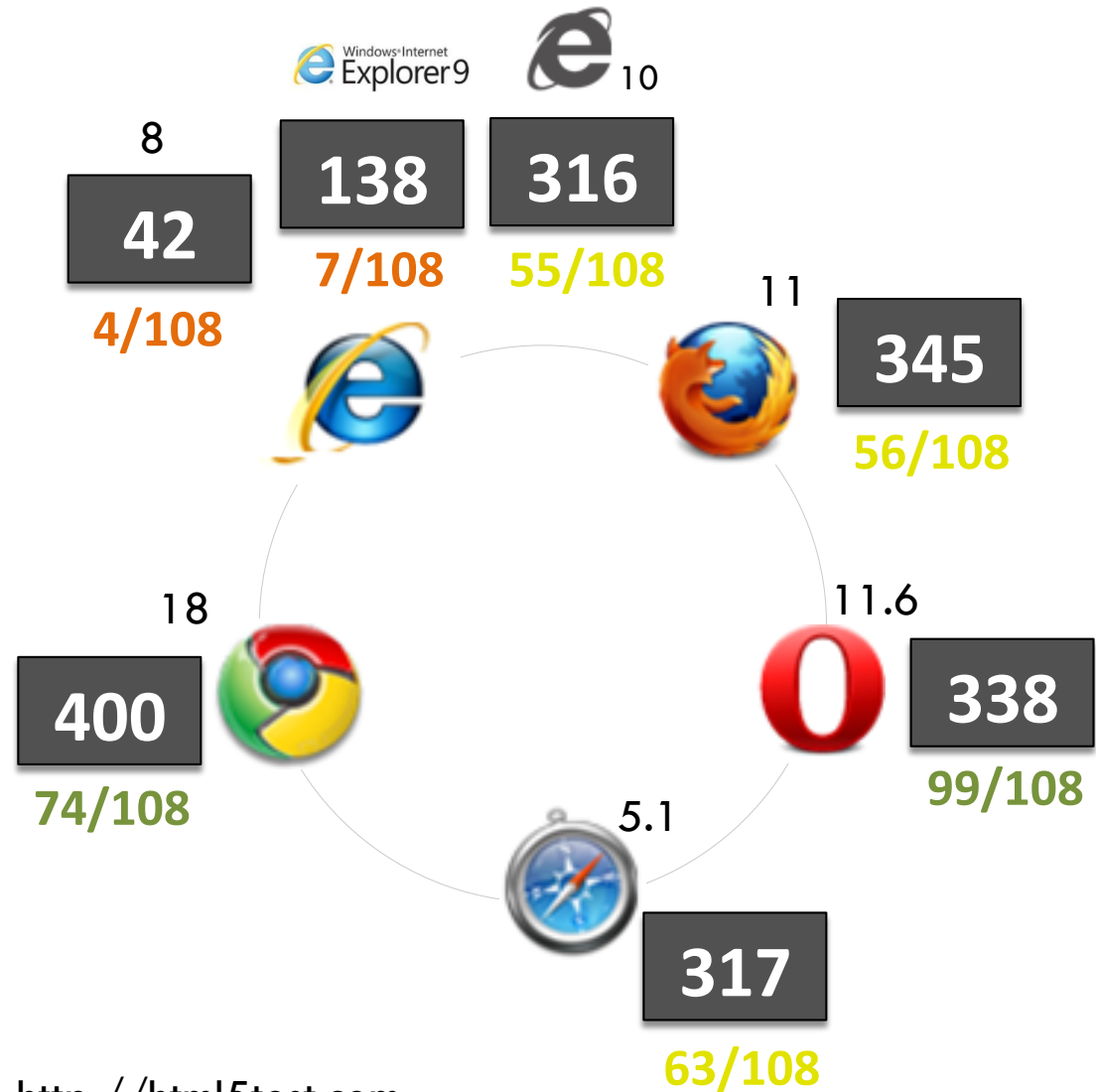
## HTML 5



**Forms** **74/108**

**Field types**

input type=text	Yes	✓
input type=search	Yes	✓
input type=tel	Yes	✓
input type=url	Yes	✓
input type=email	Yes	✓



<http://html5test.com>

# Support par les navigateurs

## HTML 5

- Support HTML5 par les navigateurs
  - ▣ Support effectif d'un sous-ensemble HTML5 sur ordinateurs fixes, tel, tablettes
  - ▣ Pas de support de Flash dans Apple iOS et Windows 8 mobile
    - => développement d'applications web mobiles avec HTML5/CSS3/JS
    - => Adobe Edge : animations riches utilisant HTML5/CSS3/JS
  - ▣ Augmentation du support HTML5 à chaque nouvelle version

# Support par les navigateurs

- Utiliser des normes (W3C)
- Comportement des navigateurs
  - Ce qui est inconnu (élément, attribut, propriété de style) est ignoré
  - Champs textes à la place de champs date de formulaire
- Amélioration progressive de l'application
  - ▣ Modernizr (HTML5, CSS3)
- Emulation
  - ▣ JSON : json2.js
  - ▣ canvas : excanvas.js (IE < 9)
  - ▣ Forcer la reconnaissance des éléments HTML5 pour leur appliquer un style CSS
    - HTML5shiv (IE)
    - Fiks.html5 (IE < 9, FF3, ...)
- S'affranchir des différences entre navigateurs
  - ▣ bibliothèque
  - ▣ framework