

Arun Ranganathan Developer Relations, Mozilla 12 March, 2009



Mozilla's mission

promote choice and innovation on the Internet







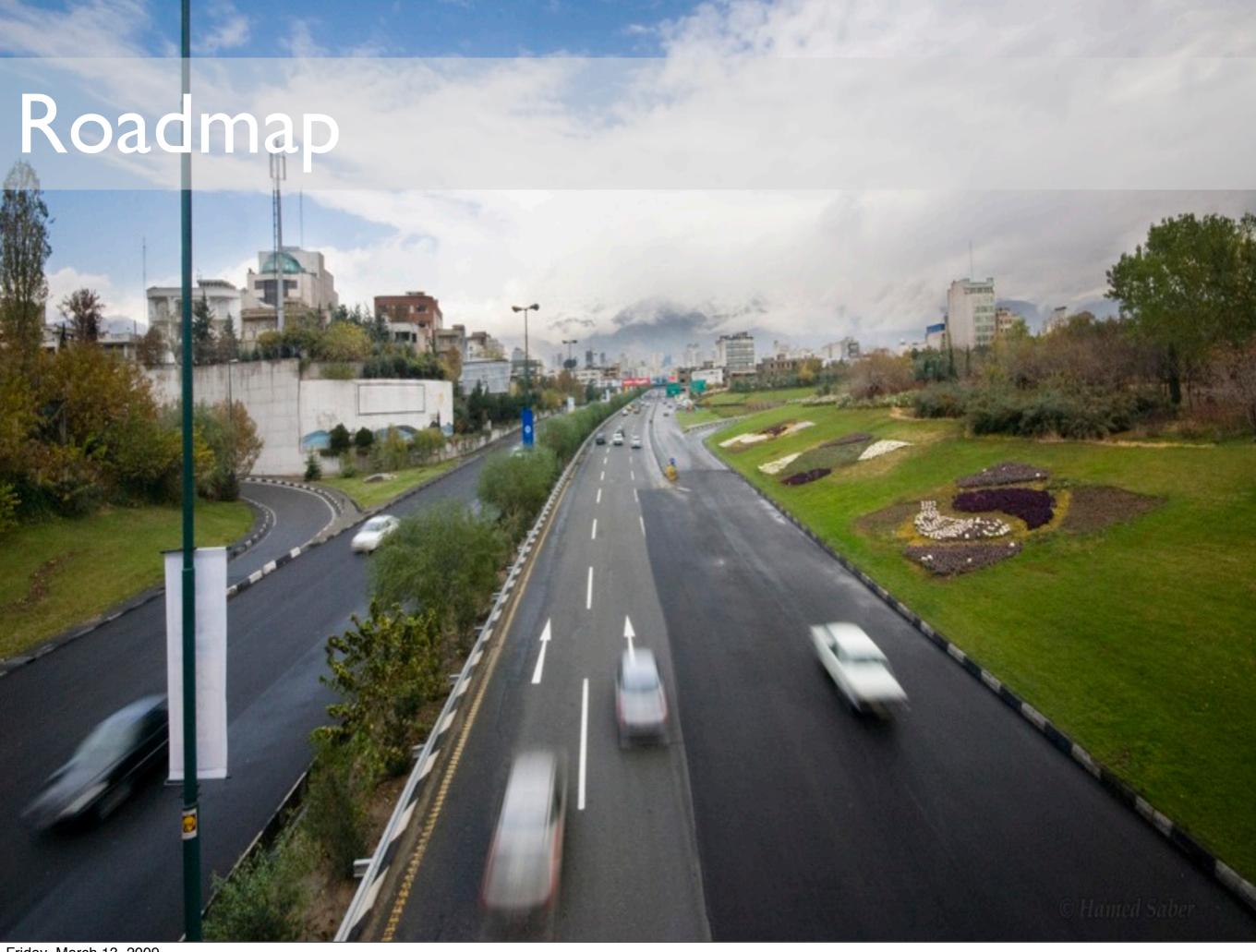




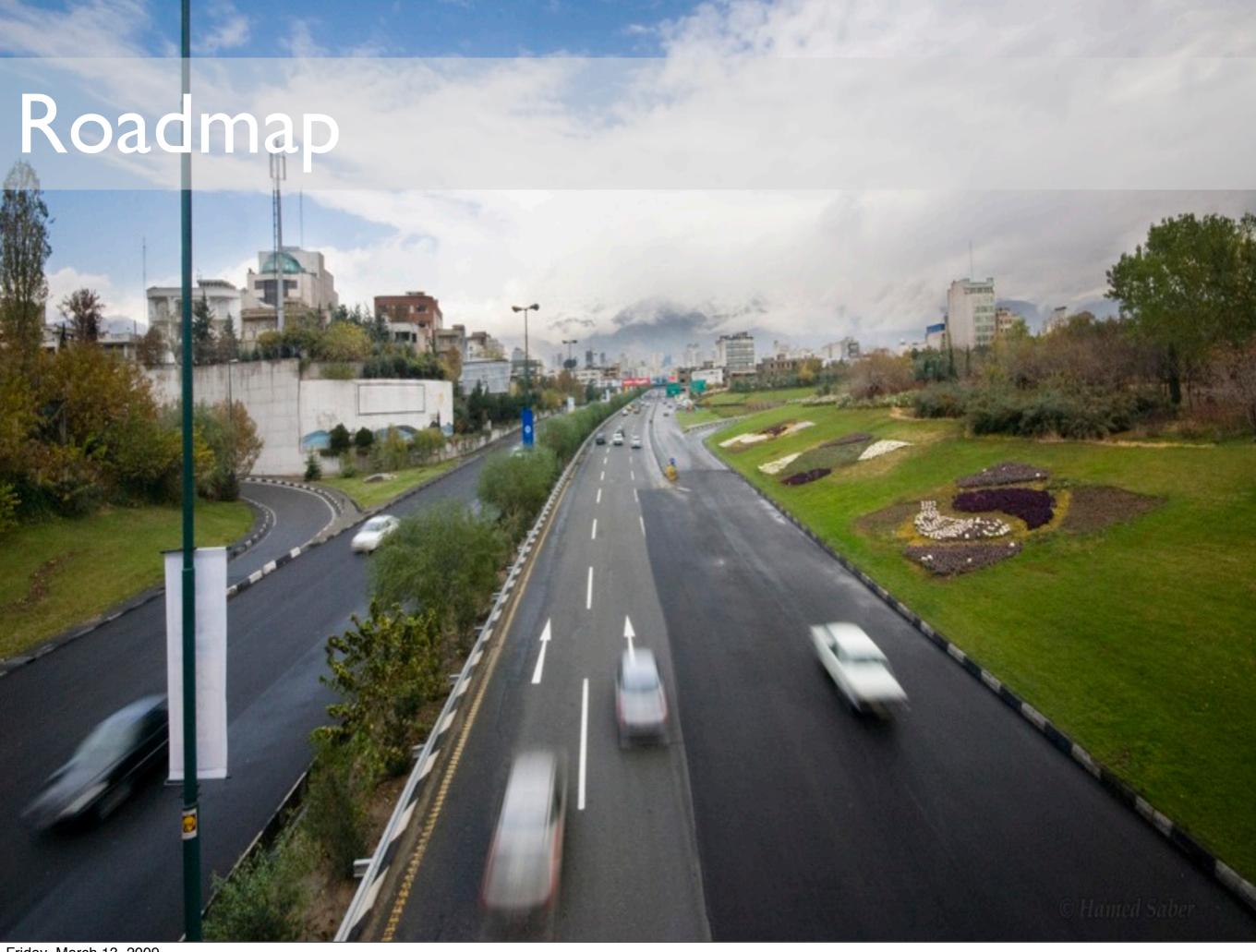


The Web is the open mobile platform HTML/CSS/JavaScript for rapid development Works across all platforms Low learning curve









Fennec - Firefox for mobile

- Simple, fast navigation to Web content
 - "Awesome bar" for mobile
 - seamless transition between mobile and desktop browsers
 - integrated search
 - ...and much more
- Add-ons
- Linux, Windows Mobile and Symbian



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web site



HTML

CSS

JavaScript

Plug-ins

web site



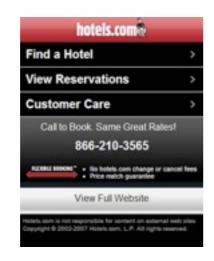
HTML

CSS

JavaScript

Plug-ins

mobile-friendly layout



Just more CSS

server-side access to device capabilities data

web site



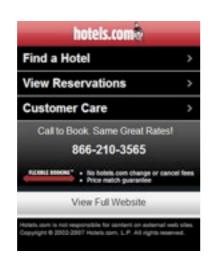
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mobile widget



Widget metadata

Update mechanism

web site



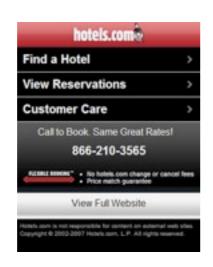
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Widget metadata

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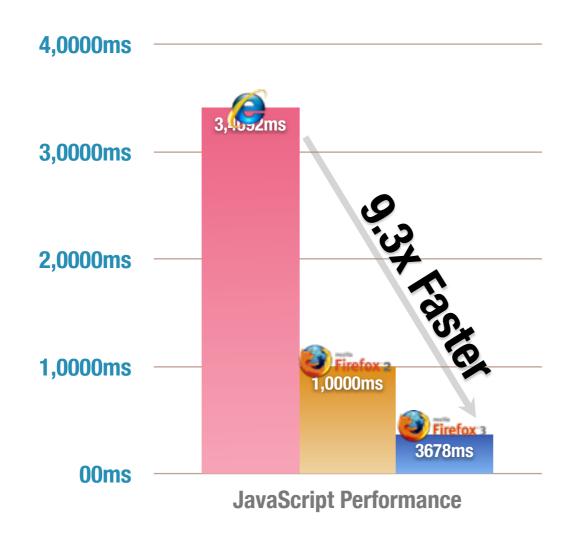
device integration



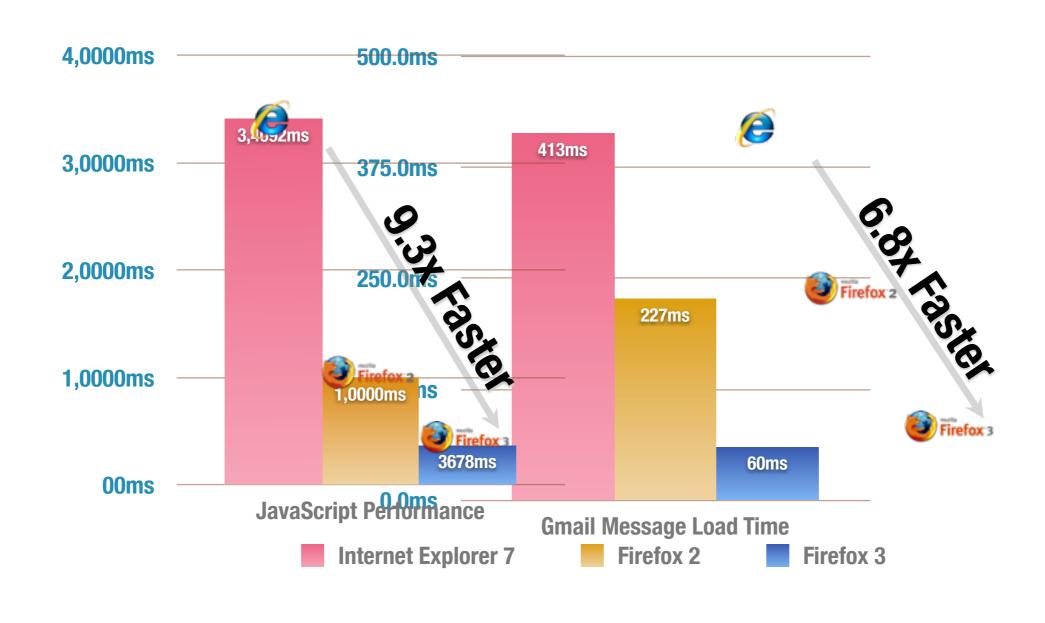
JavaScript/DOM access to device features

Security model

JavaScript performance

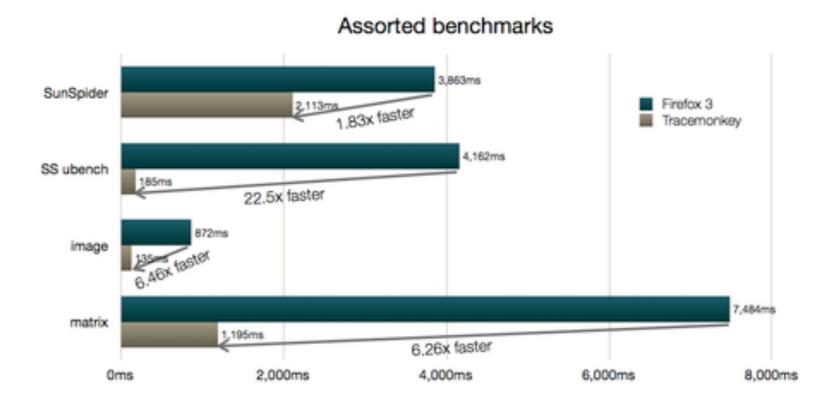


JavaScript performance

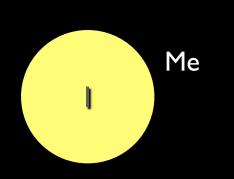


JavaScript performance

Further improvements with TraceMonkey

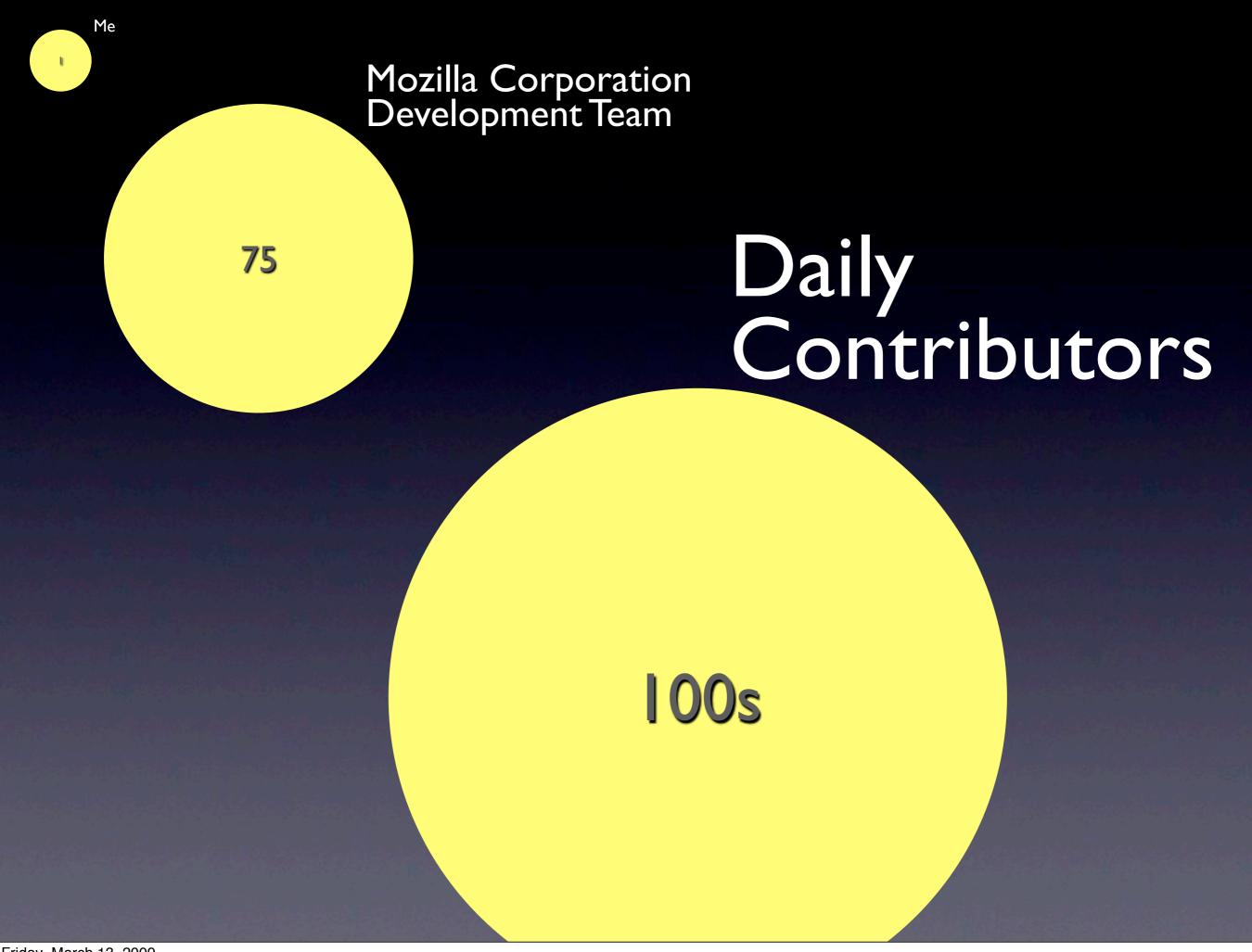


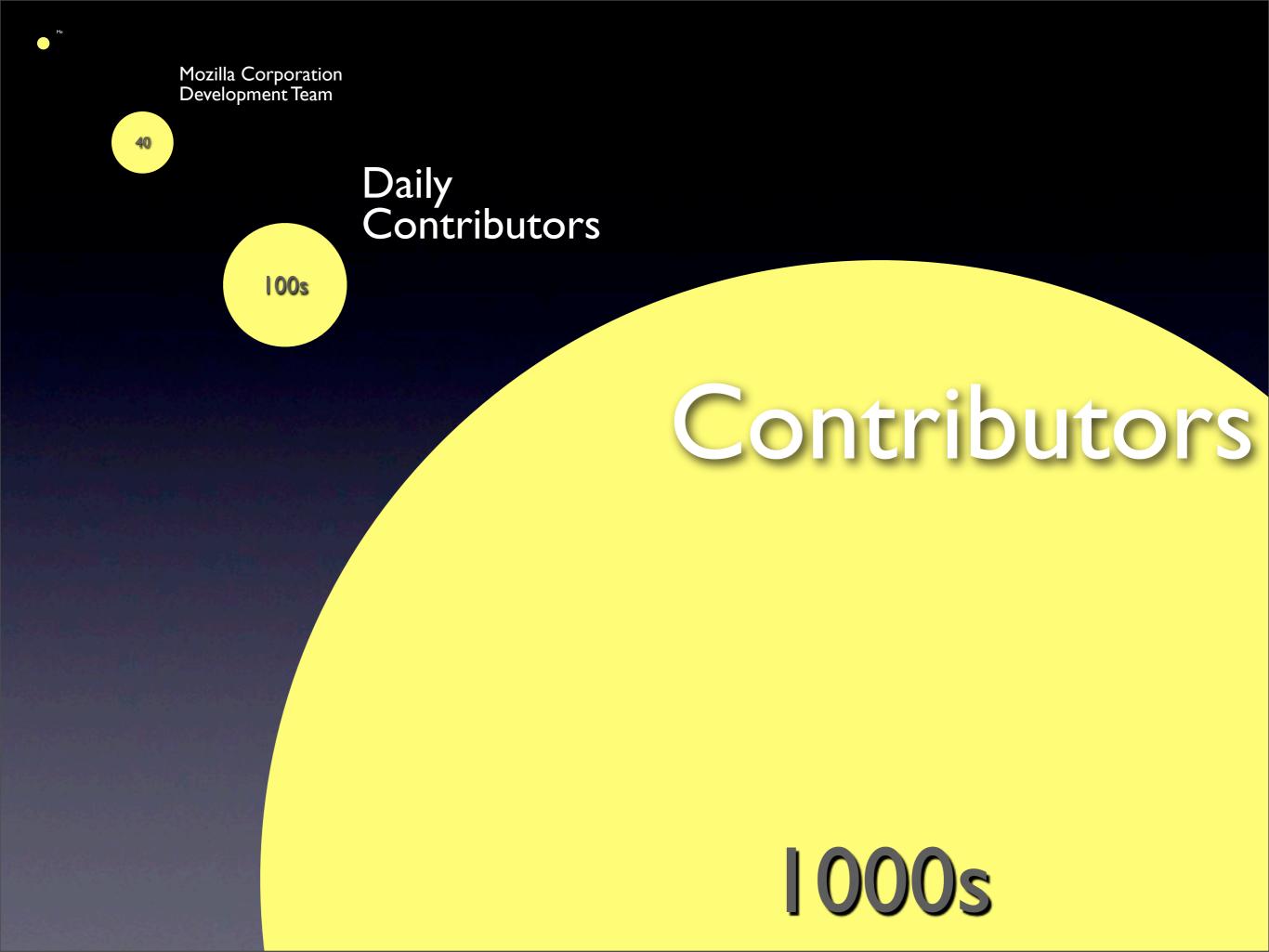


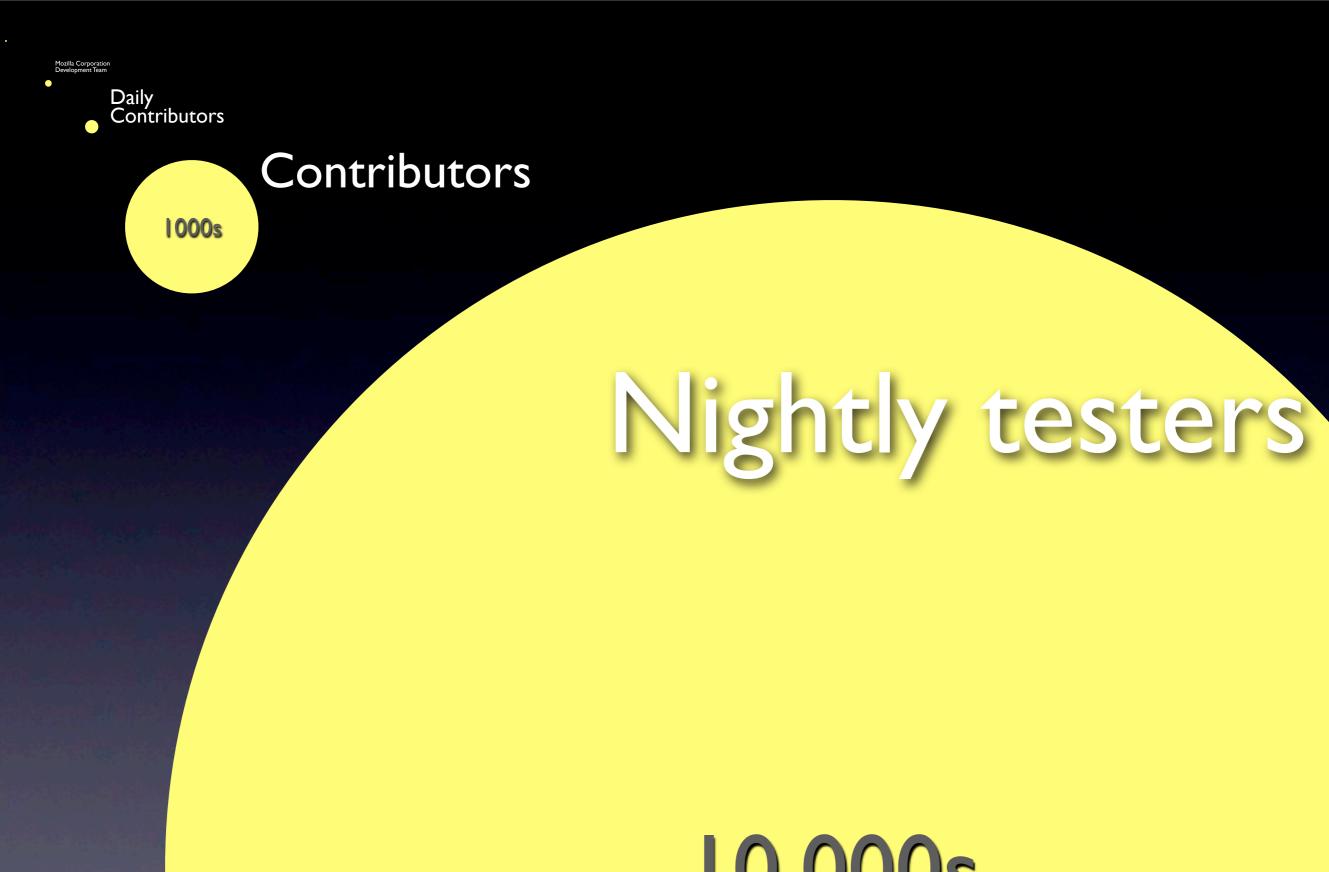


Mozilla Corporation Development Team

75







10,000s



Contributors

10,000s

Nightly testers

Beta testers

1,000,000

Nightly testers

Beta testers

500k

Active users

 $(\sim 200M)$

how does this work?



Warning! Model mismatch!

Using the wrong model can be harmful to your health

This model works for Mozilla; might not work for you...

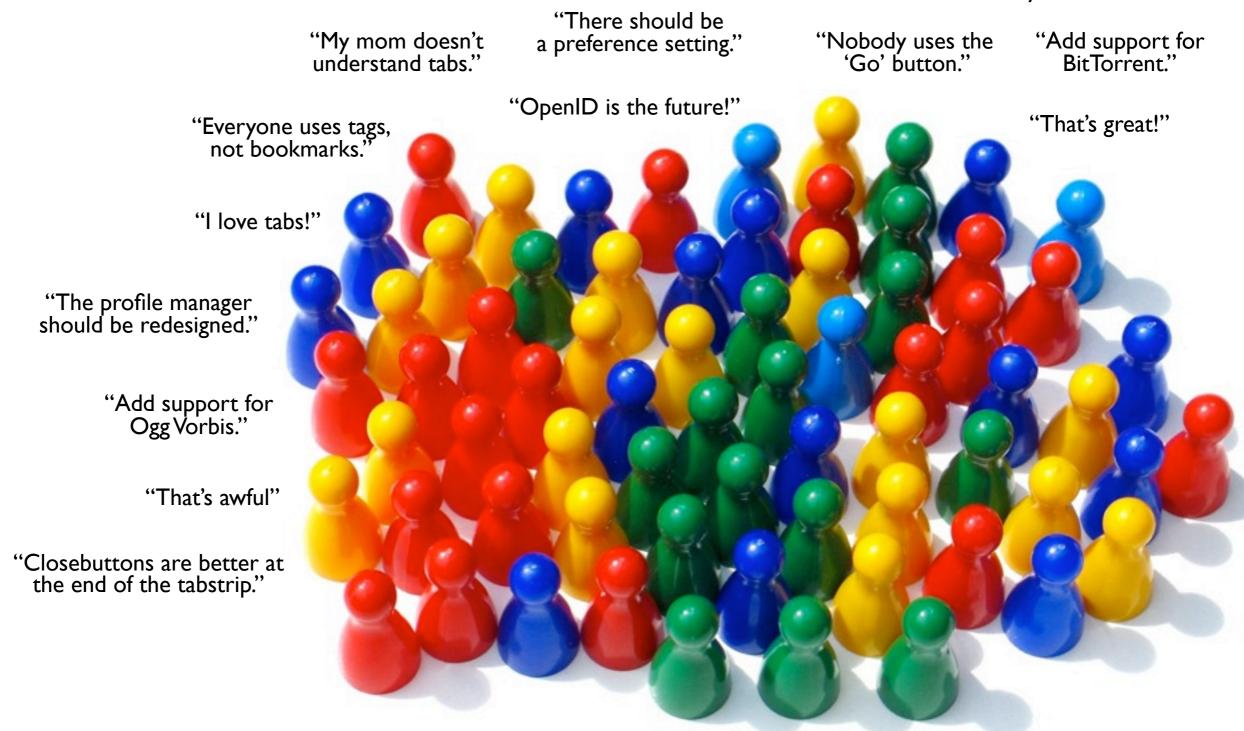


Embracing the chaos...

"The URL bar should be removed."

"Fitts' says bigger buttons are better."

"What's with the dirty house?"



Anyone can propose a change

Bug #	<u>Dupe</u> Count		Component	Severity	Op Sys	<u>Target</u> <u>Milestone</u>	<u>Summary</u>
<u>319196</u>	107	15	Startup and Profile System	critical	Windows XP	1222	customized toolbar always reset to default on restart, bookmarks and search engines lost, unable to add search engines (localstore.rdf corruption on upgrade or crash). SEE URL FIELD FOR SUPPORT LINK
239223	50	0	General	critical	Windows XP		[Meta] firefox.exe doesn't always exit after closing all windows; session-specific data retained
284099	49	0	Bookmarks	critical	All		bookmarks lost when upgrading Firefox
249150	43	0	Bookmarks	critical	All		Bookmarks file is overwritten (deleted) randomly in Firefox versions without places
215762	34	2	General	normal	All		autoscroll (middle click) causes "XML pretty print" to unformat (disappear, clear)
283697	31	0	Preferences	normal	All		Firefox Options (Preferences) panels are cropped (cut off)
195031	28	0	Bookmarks	normal	All		Bookmarks menus should be sticky (should remain open in some cases)
<u>299372</u>	23	0	File Handling	normal	AII		Content-Disposition headers no longer looked at for Save Link As filename, so it uses e.g. "attachment.cgi" in bugzilla instead of the name of the attachment; Save Page As works fine
254714	21	1	Location Bar and Autocomplete	major	All	1	while loading a page, on a new tab/window, the location bar does not display the address
		5 <u></u> 8	Dawalaad		1	N	Cross Cossian resumable doublands (resume after quitting

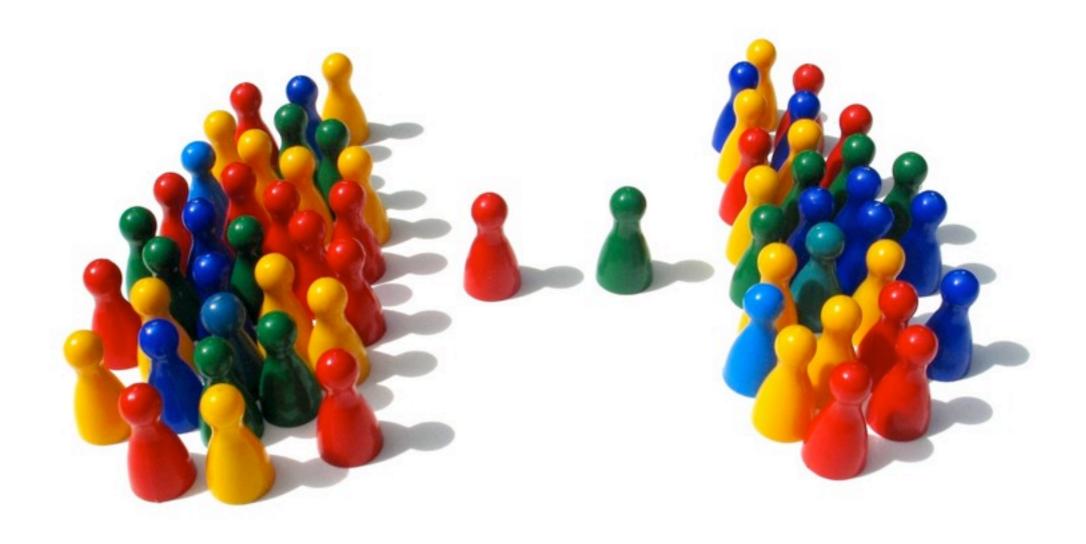
Anyone can comment on a proposal for a change

Status			Command #101 Formula				
Sever _	Private	03-06-06 19:09:11 PDT	Comment #101 [reply]				
Vhite not	nce G. Glenn R	anders-Pehrson 2004-06-08 17:58:10 PDT	Comment #456 [reply]				
res	store Private						
Dut	am trine comme t I c from moz comin that som	Gerard 30911 2007-03-20 07.00.30 FDT	Comment #725 [rep				
louu		Private					
Comp	smin <u>Peter W</u>	I'm just restarting this comment for the so	e 59th time in the last week or				
ersic g	Glenn Privat	Can we please all agree that this is goi	ing nowhere? The decision not to suppor				
lardv 🗆	Priva I am run	MNG natively has been made and we have be question is only, is it a workable alter	native and who has the ability/time to				
DS: I'v	ve ju and Linu bugs opened to even start this thing. If they have then please let me know as the MNG display I'd like to listen in :-)						
ssign alo	ong W to the 1	Now as for APNG, can we please move that	discussion to bug 257263 and let this				
A Co to	unde:	one rip? There are some things that peop	ole need to be aware of that are not				
riorit I	bytes 1. The f suppo http://w mpres appear w		think good ol bugzilla is a little mor				
Targe Milest	appear w	The short story (but again please go to	bug 257263 for the long story):				
illest	backgrou	, , , , , , , , , , , , , , , , , , ,					

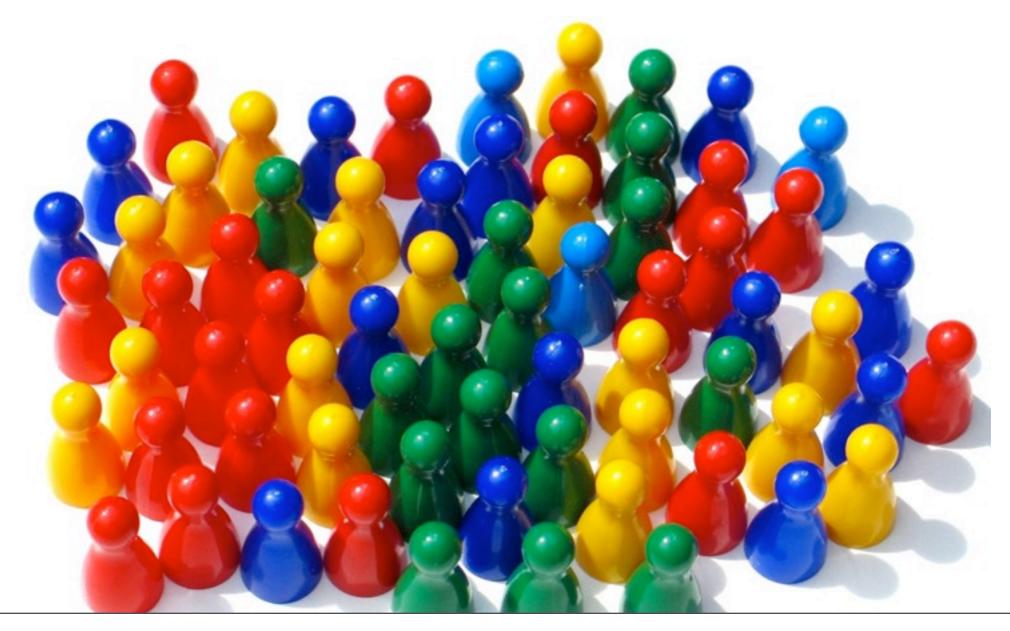
Anyone can submit a change to the code

```
Index: browser/base/content/browser.js
RCS file: /cvsroot/mozilla/browser/base/content/browser.js,v
retrieving revision 1.777
diff -u -8 -p -r1.777 browser.js
--- browser/base/content/browser.js
                                     13 Apr 2007 01:26:38 -0000
                                                                        1.777
+++ browser/base/content/browser.js 14 Apr 2007 23:36:20 -0000
@@ -1818,16 +1818,18 @@ function addBookmarkForBrowser(aDocShell
     title = url;
   BookmarksUtils.addBookmark(url, title, charSet, aIsWebPanel, description);
 #endif
function openLocation()
+ if (window.fullScreen)
   FullScreen.mouseoverToggle(true);
   if (gURLBar && isElementVisible(gURLBar)) {
     gURLBar.focus();
     qURLBar.select();
     return;
 #ifdef XP MACOSX
   if (window.location.href != getBrowserURL()) {
     var win = getTopWin();
@@ -3090,16 +3092,18 @@ const BrowserSearch = {
        win = window.openDialog("chrome://browser/content/", " blank",
Edit Attachment As Comment
                          View Attachment As Diff
```

camps are formed quickly



easier to comment than to do





Chaos into order: organizing a chorus

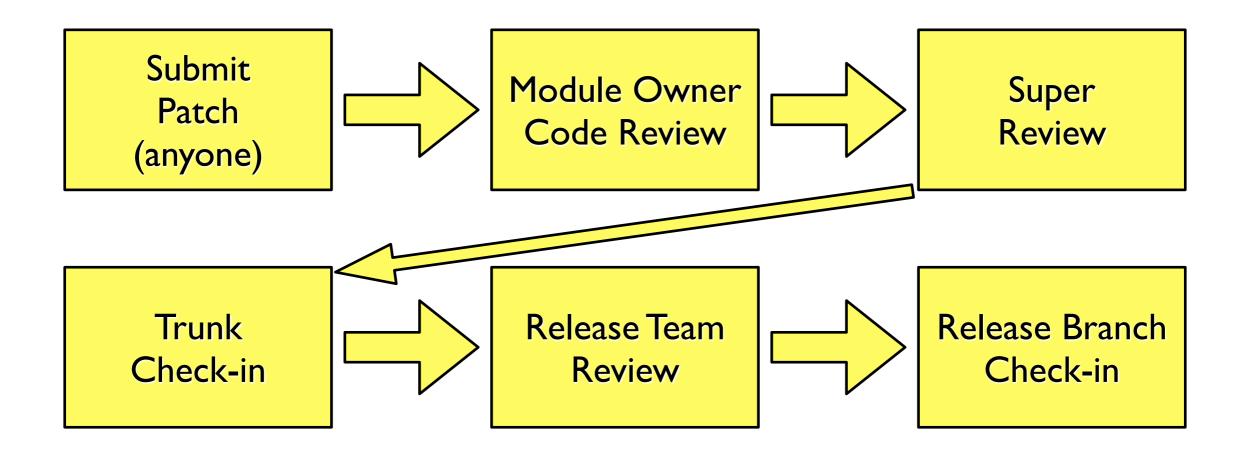
Order

Key: Not everyone can approve a change



Order

Multiple Code Reviews





Visibility into every change



tinderbox

tree: Firefox (2007-05-26 19:42 PDT)



Order

educate



Order

identify and elevate smart contributors





Provide a path of least resistance to channel the input to where you want it



Create a clear path for contributors

