



Mozilla

Web Developer Survey Research

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Prepared by
Joan Green
Marketing Research Consultant
the green research group
415.812.3186
jrgreen@pacbell.net

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Objectives



- **Central aim of this research study is to provide insights and understanding into the Web Developer landscape.**
 1. **How well thought of is Mozilla, in the absolute and in comparison to competitor company affiliated websites? What is going well? Where can they improve?**
 2. **What web development technologies, resources and communities are used most by web developers and designers?**
 3. **What next-gen open web technologies are important and what are developers' perceptions regarding how well company affiliated websites support the open web?**
- **Survey intended to serve as a benchmark reading, with intent to repeat either quarterly or semi-annually.**



Developer



Methodology



- Online survey conducted, Sept 2-21, 2010
- Respondents were recruited from invitations posted on Mozilla Hacks and other Mozilla websites
- A total of 1,331 web developers and designers completed the survey

Global Coverage

- Survey was offered in 9 languages
- 77 countries
- 20% of interviews were from US respondents



Context and Report Notation



- This is not a representative sample of web developers and designers. Survey respondents were culled from invitations posted at Mozilla Hacks and other Mozilla-friendly websites.
 - Implication is that results may be favorably biased toward Mozilla, and less favorable toward other developer centers, technologies, resources and communities
- Survey contained many open ended questions (volunteered responses).
 - Only responses that were provided in English are included in this report. That said, there were a considerable number of non-US participants that provided responses in English
 - Non-English responses provided to Mozilla under separate cover
- How to read charts:
 - All numbers indicate percentages
 - Meaningful differences are noted by a box around a number
 - Difference may be higher or lower compared to at least one other number

Respondent Profiles



Years of Experience

< 2 yrs	10%
2-5 yrs	38%
6-10 yrs	30%
11+ yrs	22%

Operating System Used Most

Linux	30%
Mac OS X	24%
Windows 7	23%
Windows XP	19%
Windows Vista	4%

Industry

Technology	38%
Media	18%
Student (76% computer science)	11%
Education	6%
Engineering	6%
Finance	3%
Health care	2%
Real estate	1%
Other	15%

Type of Employment

In-house web developer and/or web designer	39%
Some of my responsibilities include web development and/or web design	13%
Work for a web agency	10%
Work on a contract or freelance basis	25%
Hobbyist/just for fun	6%
Work for school/university	4%

Number of Employees

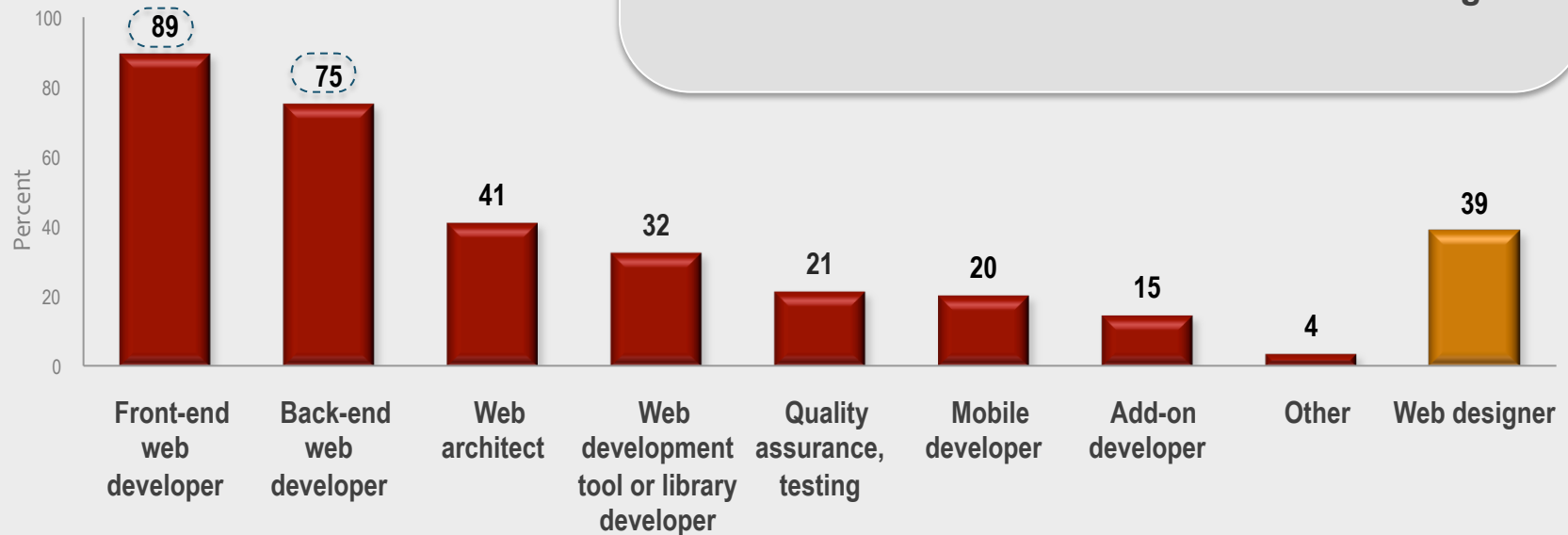
1 to 19 employees	40%
20 to 49 employees	16%
50 to 499 employees	26%
500 to 999 employees	4%
1000 or more employees	13%

Base: Employed by a company

Type of Developer



- Among the total sample of 1,331 respondents, **99%** self-identified as a Web Developer.
 - Indicates that web developers work in multiple areas of development (and design)
- **39%** also described themselves as web designers.



Q: What type of a web developer/designer are you?

Note: Multiple responses



Type of Developer

- Web developers and designers wear many hats:
 - In addition to working in specialized areas of web development, most are also front or back developers

	Front end	Back end	Tool/Library	Web Architect	Quality Assurance	Mobile Developer	Add-on Developer	Web Designer
Base:	1141	959	415	524	273	259	186	494
Front-end web developer	100	91	88	91	90	95	89	93
Back-end web developer	77	100	84	85	84	80	83	66
Web architect	42	47	57	100	56	60	48	43
Tool or library developer	32	36	100	45	40	45	58	28
Quality assurance, testing	22	24	26	29	100	30	31	28
Mobile developer	22	22	28	30	29	100	27	24
Add-on developer	15	16	26	17	21	20	100	13
Web designer	40	34	33	41	50	46	33	100

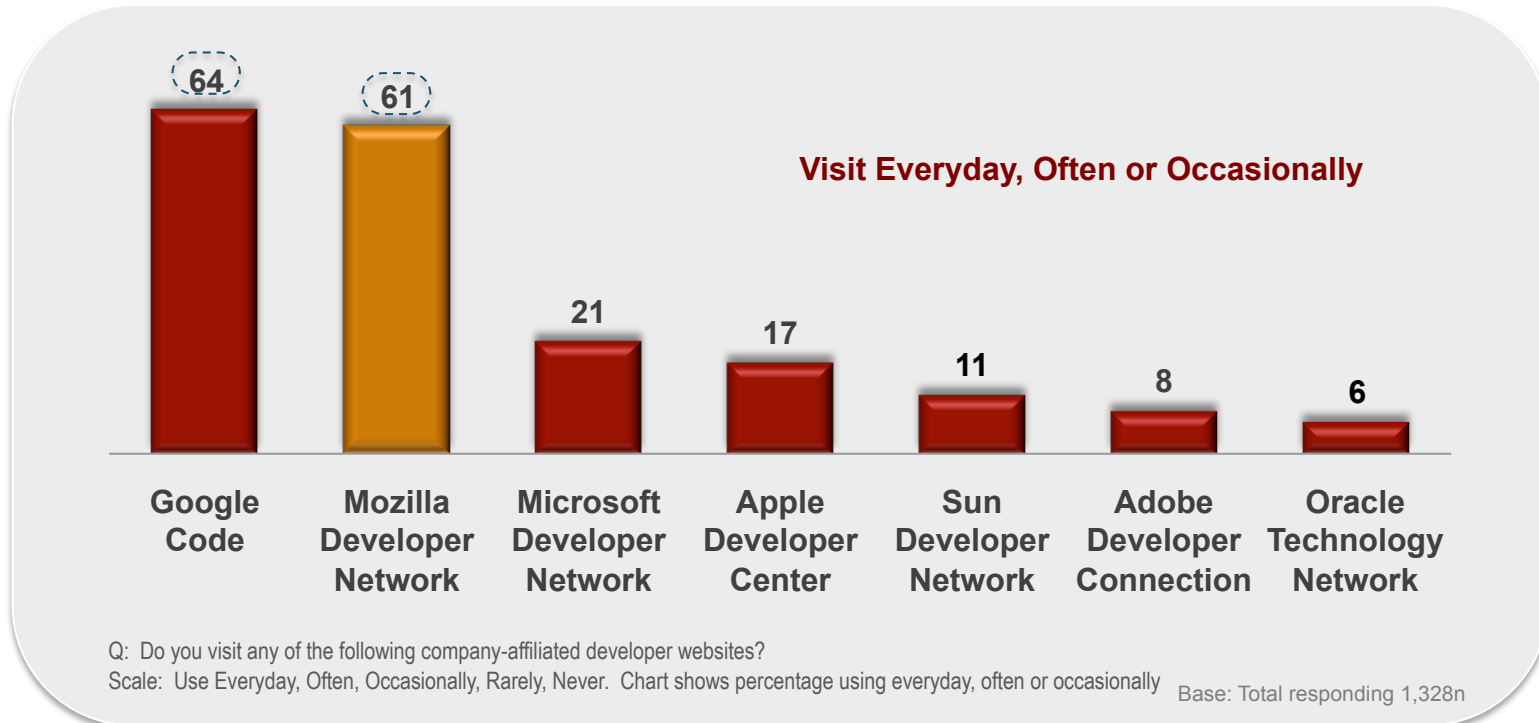


Key Findings: Company-Affiliated Websites

Company-Affiliated Websites



- Roughly 2/3rd of this sample of developers use Mozilla and/or Google Code on a regular basis.

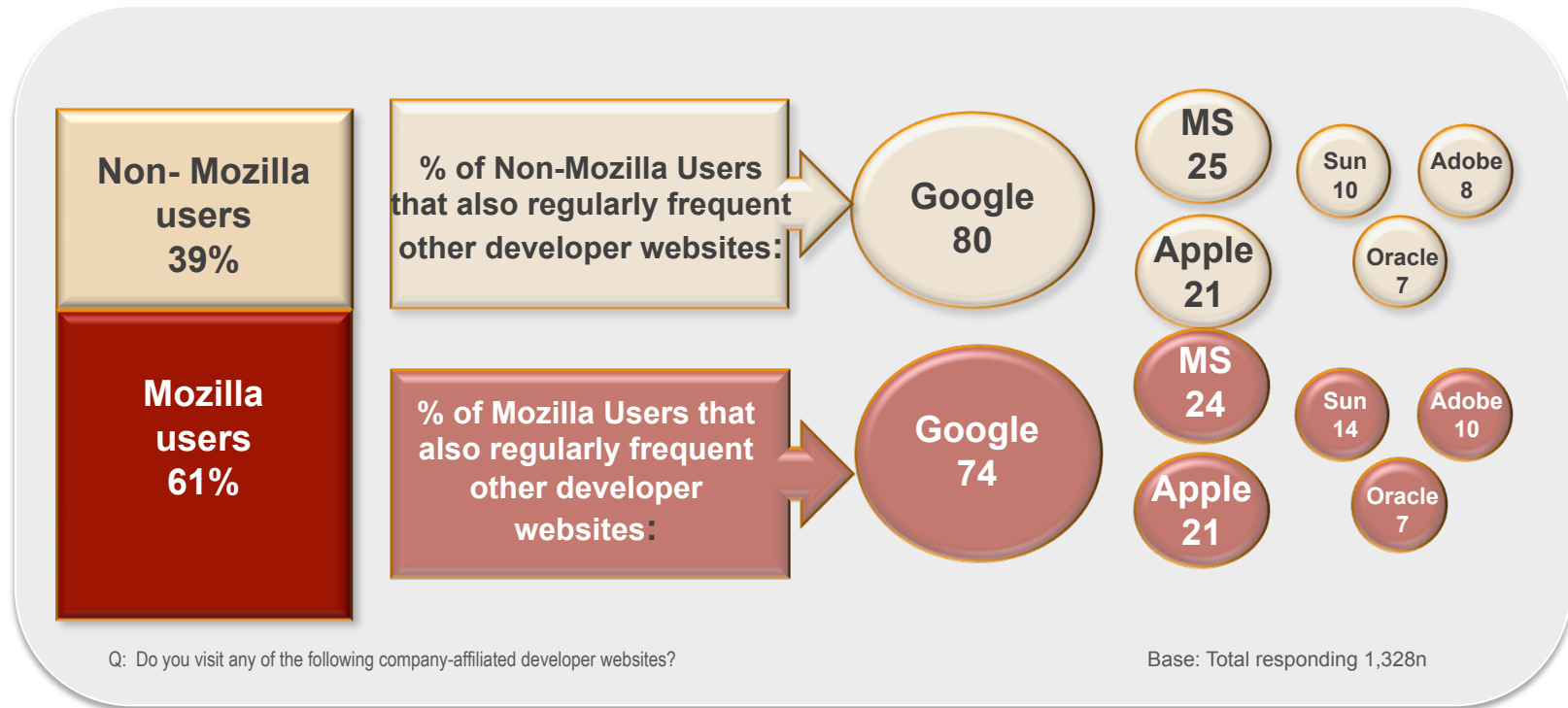


- For the purposes of this study, Mozilla Users (and users of other company affiliated websites) are defined as visiting everyday, often or occasionally.
 - Non-Users are defined as visiting rarely, or never



Cross-Over Usage

- There is considerable crossover usage between MDN and Google Code, with 74% of Mozilla users also being regular Google Code users. Far fewer (25% or less) regularly visit other company affiliated websites.
- Mozilla users and Non users have the same crossover profile.



Perceptions of Company-Affiliated Websites

(based on respondents volunteered responses)



- MDN shines most in providing JavaScript and other developer specific documentation, and as well, in providing thorough information in a well designed format.
- Google Code performs best, based on the strength of its project and library hosting, available source codes, and simple, easy to use design.

Main mentions:

	Mozilla	Goggle	
Strengths	Comprehensive, detailed documentation/information	16	9
	JavaScript documentation	18	-
	Developer specific documentation	20	3
	Hosting projects, libraries, codes	-	31
	Clear, simple, easy to use, well designed	12	17
	Great examples	9	5
	Not much, but need to use it	1	5
Reasons for Not Visiting	No need / Not relevant to my work	40	42
	Negative [Company]	-	2
	Negative [Product]	-	-
	Avoid/don't use proprietary sw	-	-

Q: What do you like about [Company Website]? Base: Visit website everyday, often or occasionally
 Base: MDN 434n, Google 415n, MSDN 128n, Apple 120n, Adobe 41n, Sun 53n, Oracle 30n

Q: What are the reasons you don't visit [Company website]? Base: Visits rarely or never
 Base: MDN 237, Google 210n, MSDN 496n, Apple 506n, Adobe 569n, Sun 561n, Oracle 571n

Perceptions of Company-Affiliated Websites

(based on respondents volunteered responses)



- MDN shines most in providing JavaScript and other developer specific documentation, and as well, in providing thorough information in a well designed format.
- Google Code performs best, based on the strength of its project and library hosting, available source codes, and simple, easy to use design.
- Microsoft is not highly regarded, but is the go-to place for IE, and all things Microsoft. Results are similar for Apple, Adobe, Sun and Oracle.**

Main mentions:		Mozilla	Goggle	Microsoft	Apple	Adobe	Sun	Oracle
Strengths	Comprehensive, detailed documentation/information	16	9	23	14	2	11	7
	JavaScript documentation	18	-	2	1	-	34	7
	Developer specific documentation	20	3	28	23	15	-	-
	Hosting projects, libraries, codes	-	31	-	-	2	-	3
	Clear, simple, easy to use, well designed	12	17	6	13	2	6	-
	Great examples	9	5	6	5	-	8	-
	Not much, but need to use it	1	5	17	10	22	17	50
Reasons for Not Visiting	No need / Not relevant to my work	40	42	28	32	34	35	38
	Negative [Company]	-	2	12	8	8	1	7
	Negative [Product]	-	-	1	-	4	2	-
	Avoid/don't use proprietary sw	-	-	5	5	3	1	1

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 Base: MDN 237, Google 210n, MSDN 496n, Apple 506n, Adobe 569n, Sun 561n, Oracle 571n

Perceptions of Company-Affiliated Websites



Sample verbatims:



It's well-written, comprehensive, and is quite devoted to up-and-coming open web technologies.



Free project hosting. One of the best issue trackers I've ever used. Best feature is online availability of libraries.



Developer

Pretty much the only major repository of Apple dev materials. You kind of have to like it.



I have not found much use in Adobe products. They're slow, proprietary, and encourage inaccessible web design.



I'm not working with their technologies.



I've never used/developed products for Oracle.



MSDN is probably the best reference manual for web related technologies, namely IE specific stuff and for everything related to the core Windows platform. It's Microsoft and they are evil!



Key Findings:

Web/Open Web Technologies

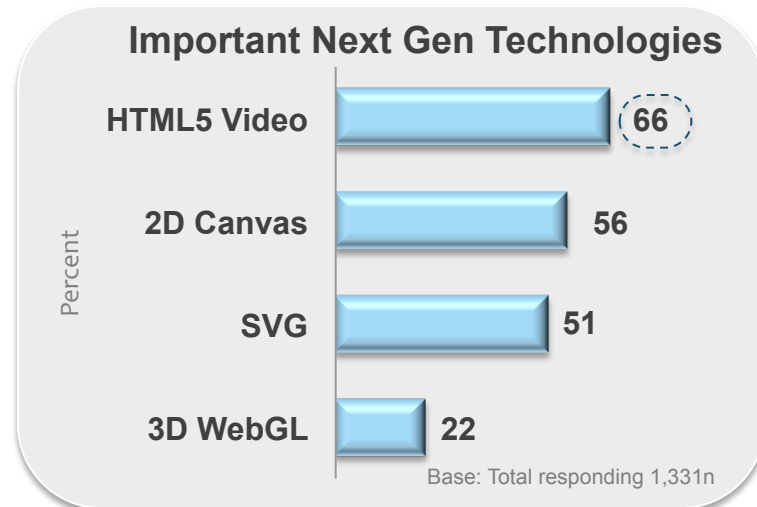
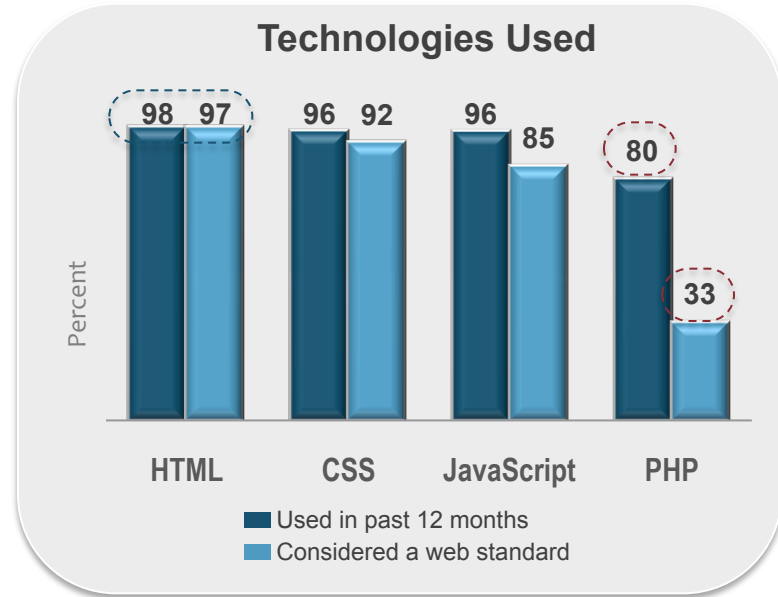
Developer Resources

Developer Communities

Web Technologies



- Among all available web technologies, HTML, CSS and JavaScript are universally used.
 - PHP also used by many, but by significantly fewer developers as compared to HTML, CSS and JavaScript
- HTML is recognized as the ultimate web standard, followed by CSS and JavaScript.
- HTML5 Video followed by 2D Canvas and SVG are considered to be the most important next gen technologies.
- jQuery is the JavaScript library used most (82%; not charted)
 - All other libraries used significantly less often (<20%)



Q: In the past 12 months, which of the following technologies have you used for web development?

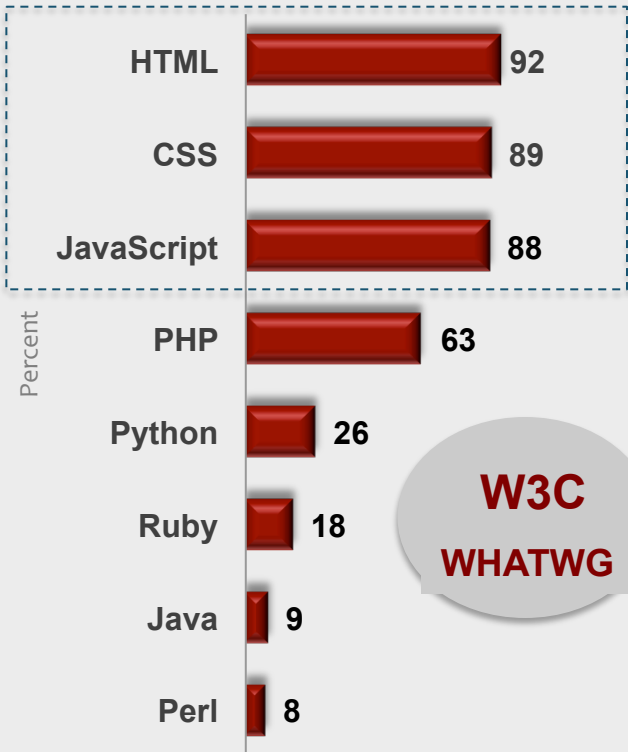
Q: From this same list of web technologies, which do you consider to be Web standards?

Q: Which of the following technologies do you think will be important for your web applications in the coming year?

Open Web Technologies



Technologies Most Associated with Open Web

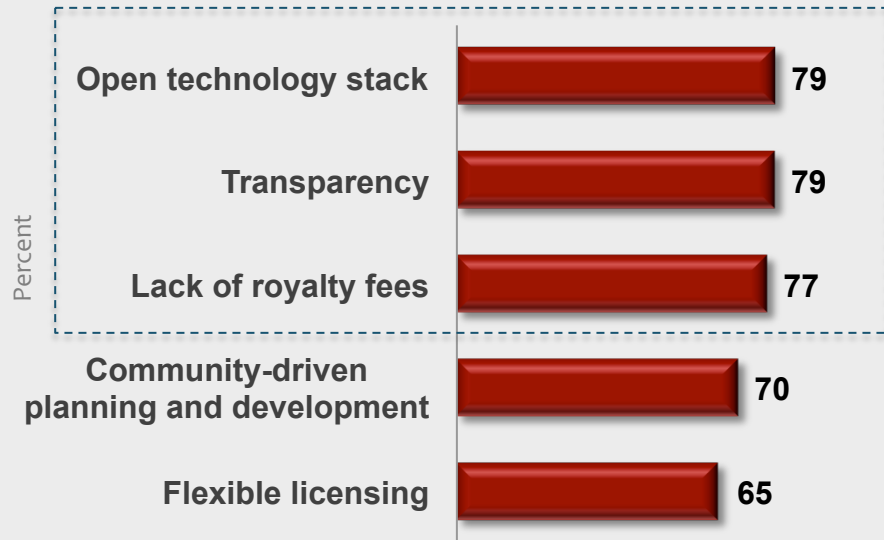


Note: Flash, JSP, C ,.NET, C#, ASP, Silverlight, Cold Fusion were mentioned by <3% of resp.

Q: Which of the following do you most associate with the open Web?

- HTML, CSS and JavaScript are the three technologies most associated with the Open Web.

Advantages of Open Source Software

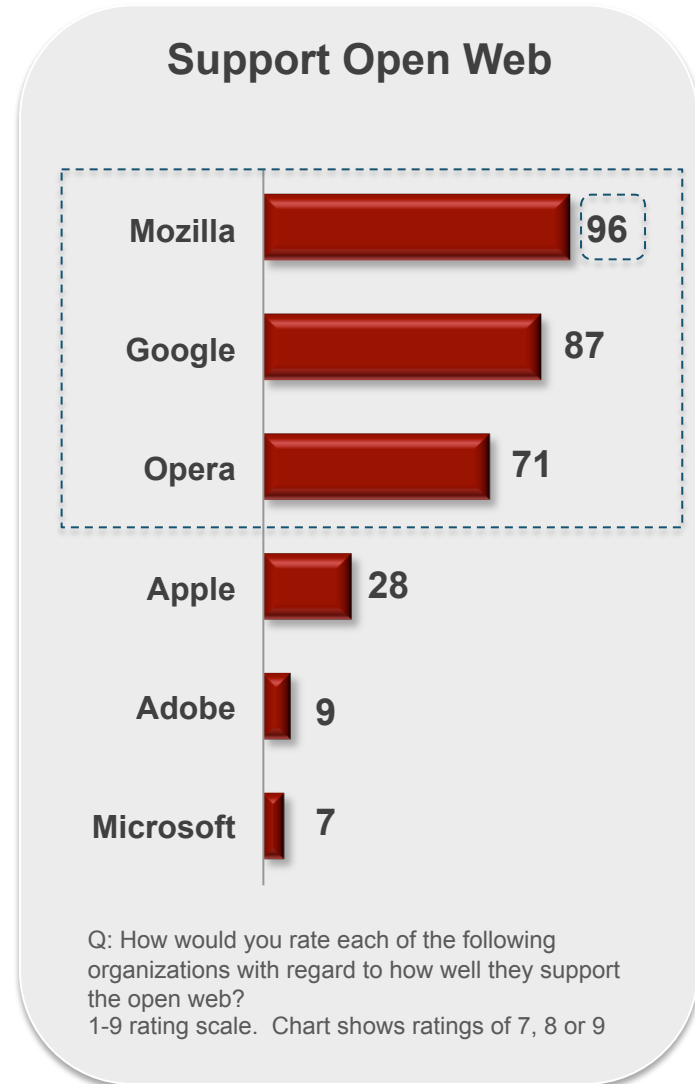


Q: Which of the following do you consider to be advantages of developing with open source software?

Company-Affiliated Websites Support of the Open Web



- Only 3 companies— Mozilla, Google and Opera — are strongly associated with the open web.
- Mozilla is by far the leader, with 96% providing a ‘excellent’ rating.
- Google and Opera are a distant 2nd/3rd at 87% and 71% respectively.
- All other companies perform poorly on this measure.



Perceptions of Company Support for the Open Web



Main Themes

Sample Verbatims



Leadership, Brand affinity
 Innovation, Defines the open web
 Not for profit, Advocacy
 Open web evangelism

I trust them more... they are a non-profit organization who have ideals that match my own. Their commitment to supporting only free, open, standards-based technologies on the public web



Open web, Promotes new technologies,
 Embodies the open web,
 Corporate resources, Don't be evil
 Corporate mentality

*They put their money, products, technology and engineers where their mouth is. They say they support the open web and they mean it
 They are the most likely to become big brother*



Trying.....but
 Kill old, non-standardized browsers,
 Commit to standards & the open web,
 IE9 is an improvement, lower development costs

Although the are doing better with IE9, they still have a lot to do to really prove they're committed to the open web



Bleeding edge, An alternative,
 Closed-source, Commitment to standards, Accessible, Does things quietly

It's closed-source, but its commitment to open standards seems comparable to Mozilla's



Closed platform; Against openness
 Better WebKit support,
 Allow OS and devices to work with other platforms

Work with standards bodies to produce better standards rather than just going off on random proprietary ventures. More support/effort to the WebKit open source project. The WebKit engine seems to work exclusively in Safari.



Become open source, Kill Flash,
 Transition to HTML5, Canvas, SVG,
 Become part of the community, Support Linux

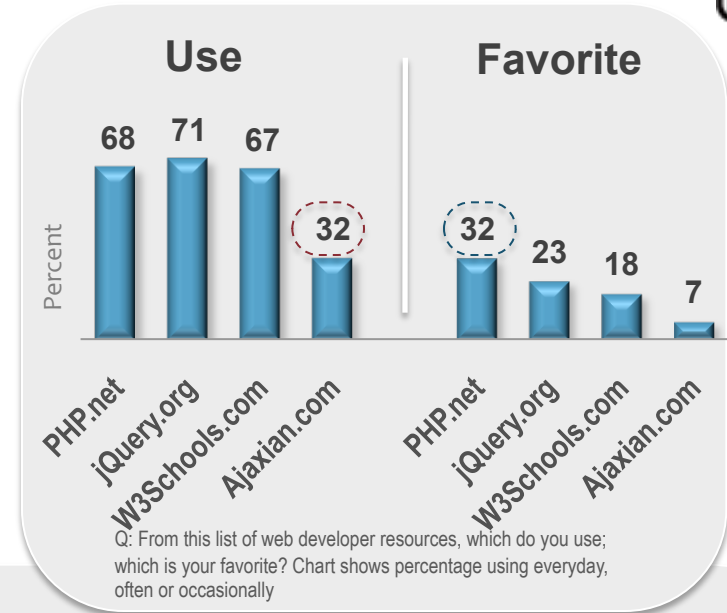
Kill Flash and start supporting html5 right now

Q: What do you like about the way { } supports the open Web Q: What could { } do better to support the open Web?

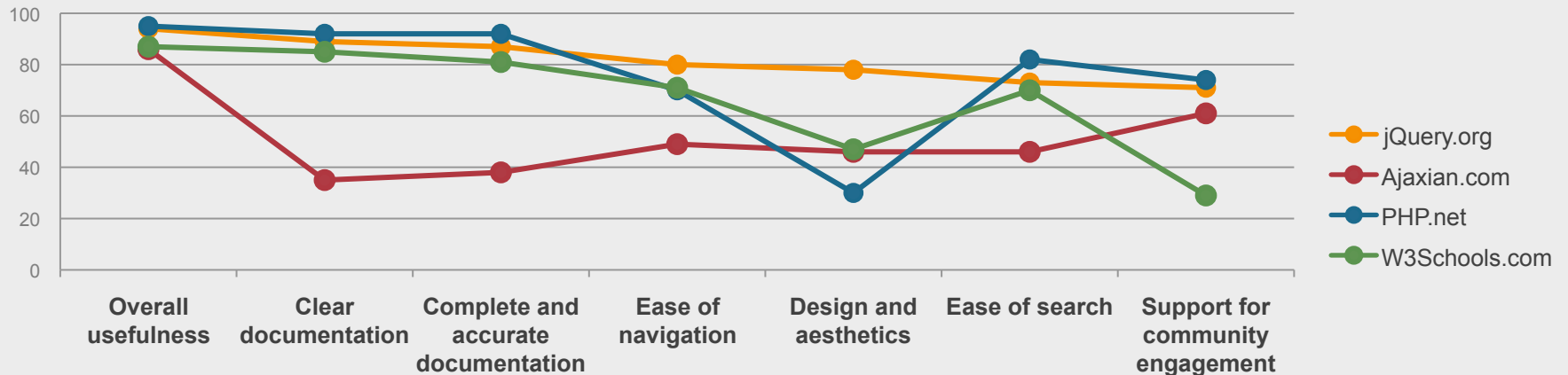


Developer Resources

- **Usage:** Approximately 7-in-10 developers use PHP.net, jQuery.org and W3Schools.com regularly, though by a wide margin, PHP.net is the most favored resource.
- **Performance:** jQuery delivers best across all performance criteria, with no major weaknesses.
 - PHP.net, while performing exceedingly well on most attributes, falls short on design & aesthetics
 - W3Schools lags both PHP.net and jQuery, and is deficient in design & aesthetics and in its support of the community



Performance Ratings

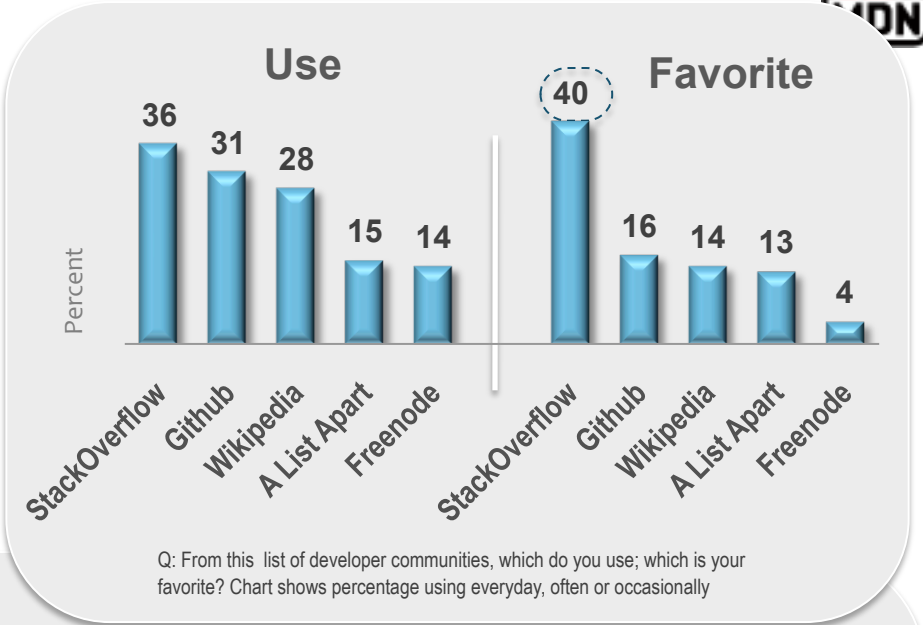


Q: How well does [resource] perform in each of the following attributes?
Respondents only provided ratings for their 'favorite' resource. Chart shows % rating a 7, 8, or 9 from a 9 pt scale.

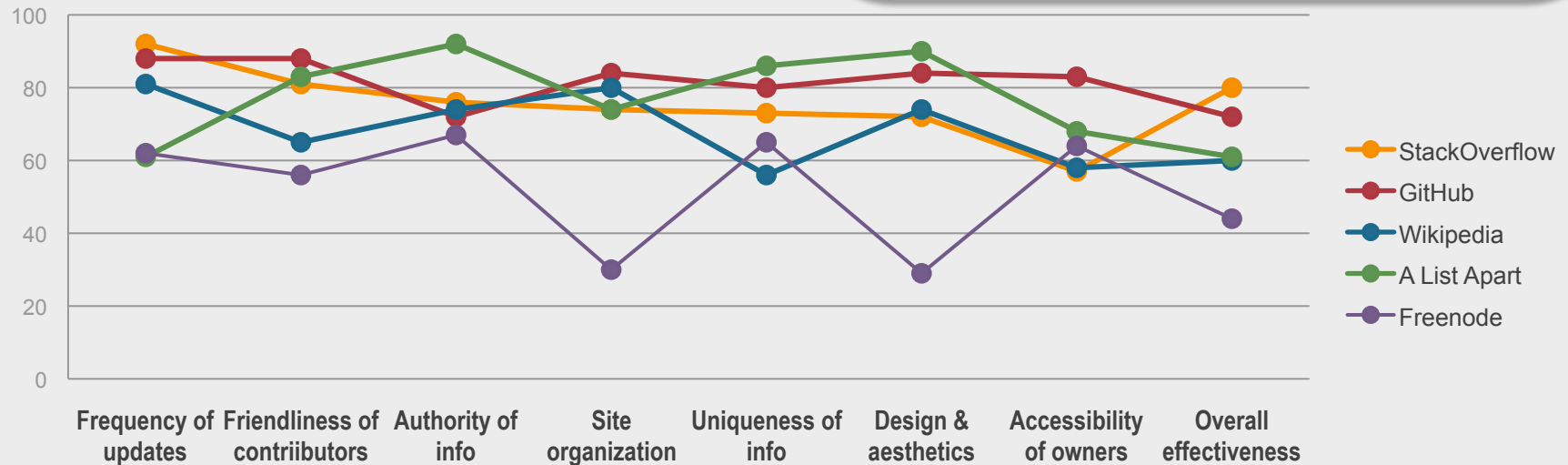


Developer Communities

- **Usage:** The communities used most are StackOverflow, Github and Wikipedia.
- While Github may be a regularly used resource, it is StackOverflow that is the overwhelming favorite place to go.
- **Performance:** Github does well, with no glaring weaknesses.
- Other communities are a mix of good performance with areas that need improvement.



Performance Ratings



Highlight of Differences between Mozilla Users & Non-Users



	Mozilla Users	Non Users
Type of Developer		
Tool or library	37	26
Years of Experience		
6+ years	55	47
Expertise		
Expert (rtg 7, 8, or 9)	70	63
O/S Used Most		
Linux	33	24
Windows 7	19	29
Web Technologies Used		
PHP	78	85
Python	28	17
Java	22	16
Web Technology Standards		
PHP	29	39
Java	90	77
JavaScript Library Used Most		
Jquery	79	86

	Mozilla Users	Non Users
Developing with Next Gen Technologies		
Yes	79	61
Important Next Gen Technologies		
2D Canvas	62	47
3D WebGL	24	18
SVG	59	39

	Mozilla Users	Non Users		Mozilla Users	Non Users
Dev Resources Regularly Used			Favorite Dev Resources		
PHP.net	67	70	PHP.net	29	36
Ajaxian	40	20	Ajaxian	10	3
SitePoint	21	15	SitePoint	2	2
Python	19	12	Python	4	2
Dev Community Regularly Used			Favorite Dev Community		
StackOverflow	40	31	StackOverflow	40	41
Github	38	21	Github	19	10
Wikipedia	34	20	Wikipedia	13	16

Tables only show areas where Mozilla Users and Non-Users differ. Dots indicate meaningful differences between these two segments

Base: Mozilla Users 814n, Non-Users 514n



Key Learning



Key Learning

- With the understanding that this is a Mozilla-centric (and not a representative) sample, the key learnings from this study are:

Mozilla Developer Network

- MDN is extremely well thought of among web developers and does an outstanding job of providing comprehensive documentation. There is a strong affinity for the MDN brand, based not only on the user experience, but also on Mozilla's not-for-profit status, its leadership and its commitment to the open web.
- Mozilla Users are generally a more experienced and sophisticated group of developers as compared to Non-Users.

Mozilla Users

- More likely to be Linux users
- Users of Python, Java
- Ajaxian, SitePoint
- Github, Wikipedia
- 2D Canvas, SVG

Non-Mozilla Users

- More likely to be Windows 7 users
- PHP users
- Less likely to be using next gen technologies



Key Learning

Company Affiliated Websites

- Among web developers and designers, MDN and Google Code are the most frequented company-affiliated websites. Both developer centers are known and well thought of as being leaders in driving the adoption of the open web and its associated technologies, and both have websites that have comprehensive and detailed documentation and a well designed/easy to use interface.
- There are, however, clear differences between these two leaders:
 - MDN outshines Google Code in providing JavaScript documentation, while Google Code is widely applauded for their hosting of projects and their libraries.
 - The larger difference is apparent in developers' perceptions of how these companies support the open web.
 - Mozilla's main point of differentiation is that it is a non-profit, and acts as an evangelist for the open web. Mozilla developers are part of a community – they share a similar culture and point of view
 - Google Code is a major force and does a lot of things right – has corporate resources, industry power and an 'open' mindset, but is for profit and has corporate goals. Accepting advertising and privacy concerns create a bit of a dark cloud over an otherwise well thought of company. Respondents ask: Is Google turning into Microsoft or Apple?

Key Learning



Company Affiliated Websites *(continued)*

- **Microsoft performs least well in this study. While developers acknowledge that the Microsoft Developer Network has comprehensive and detailed documentation (especially with regards to IE), and that they are trying to be more ‘open’, they have not committed to web standards and the IE legacy issues and costs to develop continue to disappoint.**
- **Apple Developer Center is perceived as a closed platform and unlike Microsoft, they are not trying to change.**
- **Adobe is also perceived as closed, and as not wanting to be part of the community. Flash is not well liked.**



Key Learning

Technologies, Resources and Communities

- **HTML, CSS and JavaScript are the most often used and are considered to be web standards.**
- **HTML5 Video, 2D Canvas and SVG are next gen technologies that are already being embraced by more than 50% of developers.**
- **Opera is considered a good browser alternative, and while a closed platform, it is well liked for its innovation and commitment to Open Web community.**
- **The developer resources used most are PHP.net, jQuery and W3Schools.com. Amongst this set, PHP.net is by far, the favorite.**
 - **PHP.net is very strong in most areas, but it's design and aesthetics are poor**
 - **While not the favorite, jQuery garners the highest ratings, with no weak spots**
 - **W3Schools.com rates poorly on design/aesthetics and on community support**
- **The two developer communities used most are StackOverflow and Github, though by a dramatic margin, StackOverflow is favored. Both perform quite well on key attributes, with no glaring weaknesses (only exception is owner/leader accessibility at StackOverflow)**



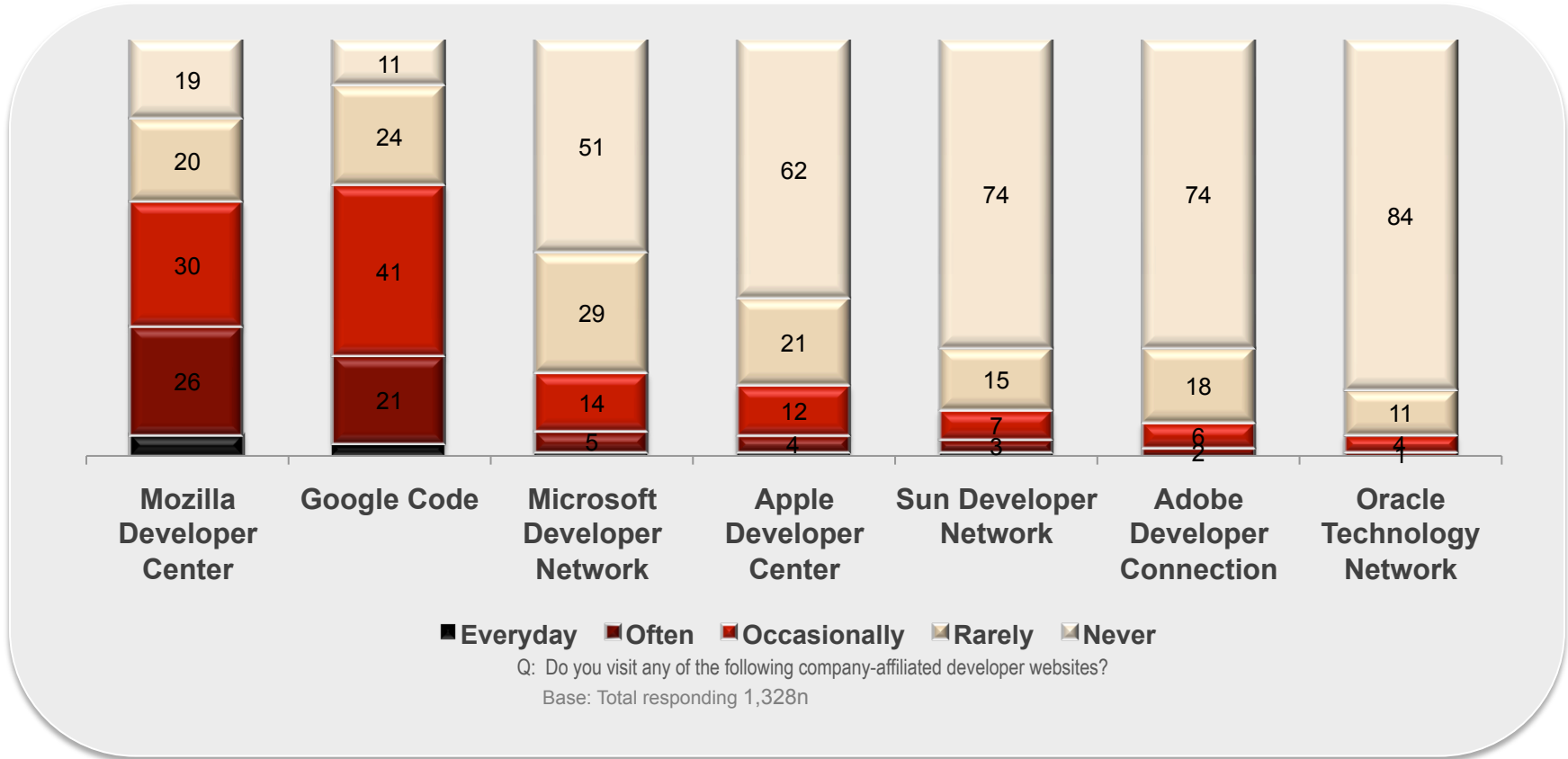
Thank You!

Discussion



Appendix: Additional Findings

Company-Affiliated Websites



Company-Affiliated Resources: Likes (volunteered responses)



	Mozilla Developer Network 434n %	Google Code 415n %	Microsoft Developer Network 128n %	Apple Developer Center 120n %	Adobe Developer Connection 41n * %	Sun Developer Network 53n %	Oracle Technology Network 30n * %
<u>Documentation/Information (Non-Specific)</u>							
Amount of/comprehensive/detailed	16	9	23	14	2	11	7
Best/good doc/info	11	4	4	11	7	6	10
Web standards/technologies/browsers	7	0	0	2	0	0	0
New technologies/innovative/interesting	6	2	0	1	2	2	0
Frequent updates/is up to date	5	2	0	2	2	2	0
Organization/Structure	3	2	7	9	2	4	0
Other non-specific Docmntn/Info	5	2	4	3	7	8	7
<u>Documentation/Information (Specific)</u>							
JavaScript/Java	18	0	2	1	0	34	7
DOM/XUL/CSS/CSS3	13	0	3	3	0	0	0
Firefox	7	0	0	0	0	0	0
Mozilla	6	0	0	0	0	0	0
API	2	3	3	1	5	6	0
IE	0	0	26	0	0	0	0
Apple (iPad, Safari, WebKit, Iphone)	0	0	0	23	0	0	0
Flash/Coldfusion/Photoshop/Actionscript	0	0	0	0	15	0	0
<u>Official/authoritative/only place to get it</u>	4	0	5	15	0	8	7
<u>Useful/Relevant</u>	6	6	4	3	5	5	3
<u>Open Web</u>							
Hosting projects, libraries, code	0	31	0	0	2	0	3
Open source/free	3	10	0	0	0	2	0
<u>UI/Design</u>							
Clear/simple/easy to use/well designed	12	17	6	13	2	6	0
Detailed/Great Examples	9	5	9	11	5	2	3
Can find what I need/Relevant	5	5	6	5	0	8	0
Articles/Blogs/Discussions/Forums	4	1	4	1	0	6	0
Tutorials	3	1	2	3	12	4	0
Community engagement	1	3	2	1	7	2	0
<u>Nothing</u>							
Nothing/not much	1	3	7	6	12	11	30
Nothing, but need to use it	0	2	10	4	10	6	20

* Caution: small base. N<50

Company-Affiliated Resources: Why Not Visit (volunteered responses)



	Mozilla Developer Network 237n %	Google Code 210n %	Microsoft Developer Network 496n %	Apple Developer Center 506n %	Adobe Developer Connection 569n %	Sun Developer Network 561n %	Oracle Technology Network 571n %
<u>No Need</u>							
No reason to/not relevant/No need	40	42	28	32	34	35	38
Didn't know about it/just discovered it	15	6	2	4	4	7	9
Don't/Rarely use [company's] tools/ technologies	10	11	35	39	41	39	37
Doesn't appear in/not at top of search results	8	3	3	3	3	2	2
Not interested	2	3	4	4	4	4	5
<u>Site Performance/Organization</u>							
Doesn't answer my questions/Can't find what I'm looking for	5	0	2	0	1	1	0
Not well organized, slow, poor UI, painful	2	5	8	2	2	1	1
<u>Company</u>							
Negative [company]	0	2	12	8	8	1	7
Dislike [company] product	0	0	1	0	4	2	0
Avoid/don't use proprietary SW	0	0	5	5	3	1	1

Base: Visited website everyday, often, or occasionally and responded in English. * Caution, small base

Mozilla Developer Network Strengths & Weaknesses

(selected verbatim responses)



Strengths:

Comprehensive, Detailed, Documentation on JavaScript, DOM, CSS, XUL. Clear, simple, easy to use

- It's well-written, comprehensive, and is quite devoted to up-and-coming open web technologies.”
- It's very complete, has very up to date info, even when it comes to other browsers. I love it! Keep up the good work!
- It is the most complete and up-to-date resource of web technologies on the web.
- Information, tons of it. add MDC to your Google search, click, won't be disappointed.
- Fairly comprehensive documentation of Web technology (CSS, DOM, HTML, JavaScript, SVG, etc) provided in Gecko.
- It's fantastically well put together. There are a lot of cookbook type examples that really help me through the code.
- It's clarity and the way it usually explains things in technical and plain English terms. It's also pretty well organized compared to a lot of other options.

Weaknesses:

Doesn't appear in search results, Not needed/relevant

- Probably because when googling for a problem this network didn't show up with a possible solution
- I perform Google searches for information on issues I am having. Rarely, this will take me to Mozilla or Google development, but more often I end up on individual blogs by web developers
- Not relevant information for me
- Didn't really know it existed

Google Code: Strengths & Weaknesses (selected verbatim responses)



Strengths:

Project and library hosting, codes. Open source/free. Clear, simple, easy to use

- There are some good libraries and interesting projects hosted there. Best feature is online availability of libraries.
- This essentially fills the same role as Github, a good place to grab code snippets or libraries I need.
- Free project hosting. One of the best issue trackers I've ever used.
- It's a central repository for js libs mainly, and it's APIs are there too. The playground is cool too
- Hosting of collaborative code projects.
- I can host stuff there for free.
- Code hosting, project hosting, very centralized, easy to post/comment to
- Are you kidding? It's about open-source I like the simplicity and ease of GCode for development of my various projects and contributions.
- Good usability focuses on the basics easily browsable
- I can star projects for later reference

Weaknesses: Not needed/relevant. Some say poor UI/organization/slow

- Just have no need to use that site.
- Interface and organization is lacking
- I only tend to when useful for specific things. Generally, it's not very easily navigable and often individual projects seem messy and undocumented - there's not enough encouragement for developers to document their work
- Bad UI, hard to find things

Microsoft Developer Network: Strengths & Weaknesses

(selected verbatim responses)



Strengths: Amount of information, developer specific (IE, .net)

- It is extremely comprehensive and navigation is great. I can usually guarantee that I'll find help for anything Microsoft-related there.
- It is comprehensive (though insufficient examples) and easy to read (though too many frames).
- The breadth of knowledge & examples. The developer blogs are pretty nice, as well.
- The amount of information and the number of detailed examples / tutorials
- MSDN is probably the best reference manual for web related technologies, namely IE specific stuff and for everything related to the core Windows platform.
- Great description of all HTML and JavaScript and CSS stuff - how it is implemented in IE, how it works in IE, etc. I use it everyday when I develop.
- Useful for .NET resources and it documents some of the quirks of IE

Weaknesses: Not well organized, Dislike Microsoft, Not open, Not needed/relevant

- Usually end up there because I'm looking for IE-specific documentation or a solution to some IE problem.
- Not really applicable to the work I do. If I have an IE-specific question, I'll go there. Otherwise, questions about web standard technologies are better answered elsewhere
- no need to, never found anything very useful there in the past so stopped going.
- Why would I, unless I'm specifically linked to something about IE?
- It is several sites spread across different website with no cohesion between them. The documentation is written for MS developers instead of Web developers.
- Completely unusable to find information - broken links, bad navigation, imprecise documentation
- At MSDN navigation is quite poor and miserable.
- Because Microsoft is not the Web spirit for me. They try to close the Web.
- It's almost all proprietary language stuff that won't work everywhere.
- It is cluttered, slow to load and slow to navigate. The documentation is poorly written
- It's Microsoft and they are evil!
- Microsoft is no leader in the web world. Evil. Painful.

Apple Developer Center: Strengths & Weaknesses

(selected verbatim responses)



Strengths: Developer specific documentation, comprehensive, well designed

- Very detailed information on Safari / WebKit, very good documentation.
- High standard of completeness and professionalism in written content.
- Same as why I like Apple in general. Clean, easy to find information. Usually use it for Safari reference guides.
- Pretty much the only major repository of Apple dev materials. You kind of have to like it.
- Lots of very detailed info about designing for their own products.
- Not much different than Mozilla dev center. Has a well organized documentation and a great reference to find reference and samples on Apple related technologies.
- Really good visual design.

Weaknesses: Not relevant to my work; Dislike Apple

- I have nothing to do with Apple or its resources.
- Just haven't really found a reason to visit. And honestly, I'm not too fond of Apple.
- Never needed it and Google didn't throw me there.
- No need. Rather stick to mobile web than proprietary iPhone/etc apps, and MDC generally covers anything I'd want from the WebKit docs.
- Don't develop for apple products
- Apple isn't open enough.
- I detest Apple. I find them obnoxious and expensive, and I don't want to increase their market penetration by using their technologies
- I have but their documentation is smarmy and authoritative, like Safari is the only browser to develop for and OS X/iOS are the only platforms that exist.

Adobe, Sun, Oracle: Strengths & Weaknesses

(selected verbatim responses)

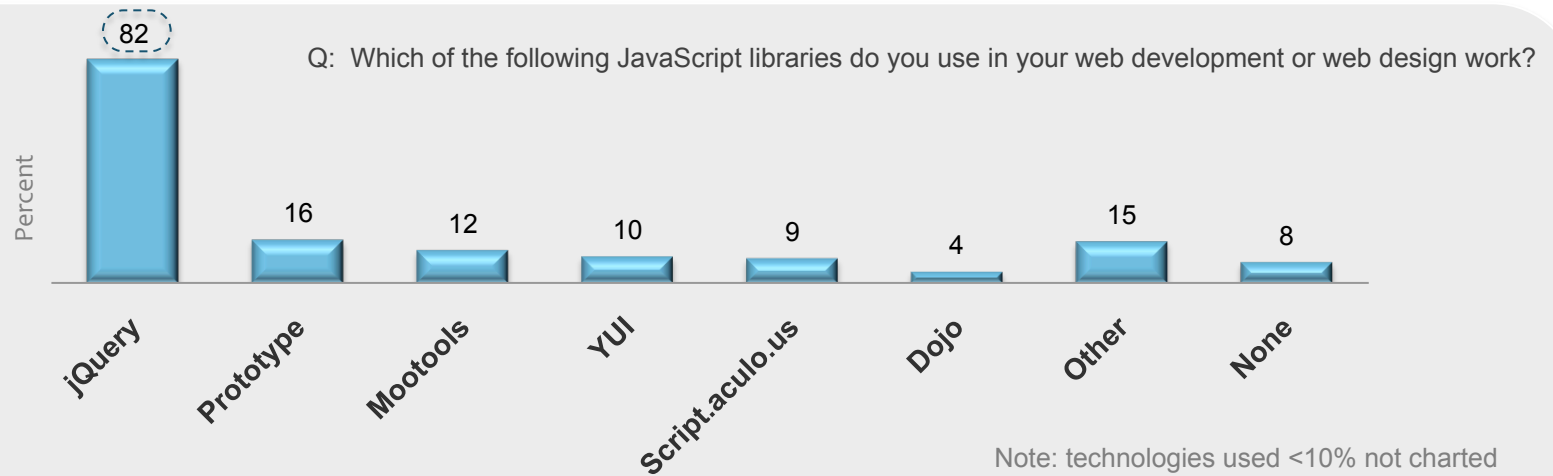
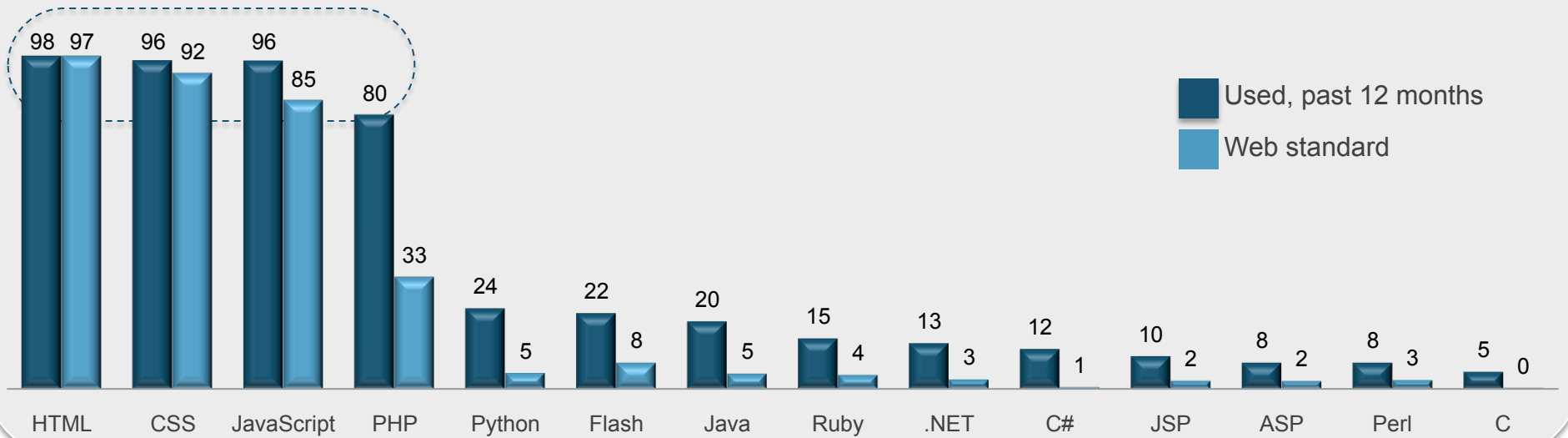


Adobe Developer Connection	Sun Developer Network	Oracle Technology Network
Strengths: Developer specific documentation		Strengths: None mentioned
<ul style="list-style-type: none"> • Documentation of flash apis • Easy to access coldfusion documentation • Documentation about Photoshop ActionScript docs 	<ul style="list-style-type: none"> • Mostly use for Javadocs. Succinct and easy to get the info I need. • Authoritative source for Java documentation - other than that, I found it pretty awful. • All official documentation about java spec and language 	
Weaknesses: No need, Proprietary, Dislike company		
<ul style="list-style-type: none"> • Don't have the funds to buy into Adobe technology. • I do not use Flash • I have not found much use in Adobe products. They're slow, proprietary, and encourage inaccessible web design. • Not interested in Adobe development; not interested in Flash • Not required for my work. Haven't needed to, and tend to avoid Adobe products • I extremely dislike anything to do with adobe 	<ul style="list-style-type: none"> • The content isn't relevant for me. • Why should I? Nobody ever uses them as source • No need to do so - Better resources available • Not a java developer. • No Sun dependent clients. • I'm not working with their technologies. • It's almost all proprietary language stuff that won't work everywhere. • Sun is only slightly less evil 	<ul style="list-style-type: none"> • Why would I want to? • Never had a reason to/ Didn't know about it. • I've never used/developed products for Oracle. • It's almost all proprietary language stuff that won't work everywhere. • Oracle? HAHAHA. No. • Oracle is like a mean old man that just won't die. • I dislike Oracle as a corporation. They charge ridiculous amounts for most of their software

Web Technologies



Q: In the past 12 months, which of the following technologies have you used for web development?
 Q: From this same list of web technologies, which do you consider to be Web standards?



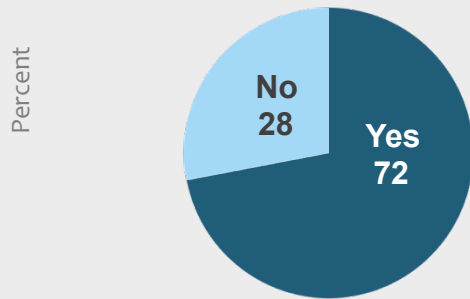
Note: technologies used <10% not charted

Base: Total responding, 1,331n

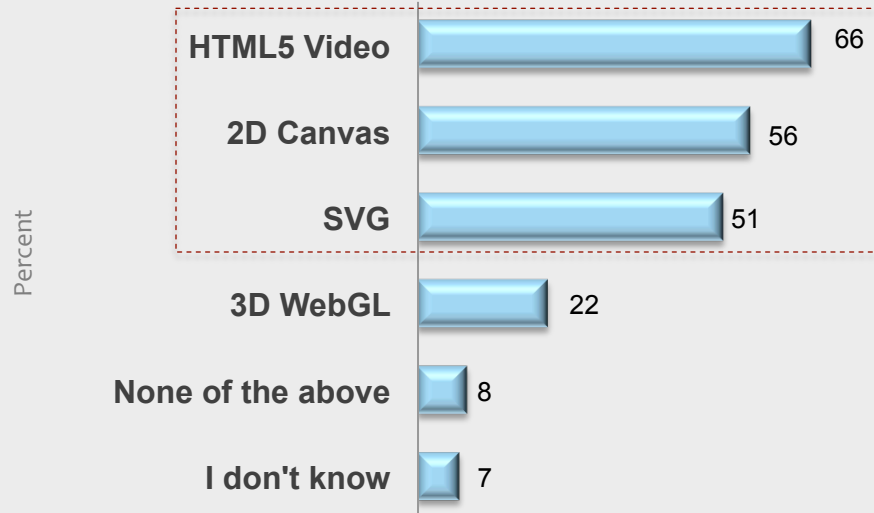
Web Technologies



Q: Do you do web development with HTML5, CSS3, or other next generation web technologies?



Q: Which of the following technologies do you think will be important for your web applications in the coming year?



Base: Total responding, 1,331n

Mozilla and the Open Web (selected verbatim responses)



Main Themes

**Leadership, Brand Affinity,
Innovation, Defines the Open Web,
Not for Profit, Advocacy**
OPEN WEB EVANGELISM

Firefox. Oh, how I love Firefox

Well, Mozilla is the open web right?

Mozilla supports the open web as its mission

Not corporate driven, makes the choices that benefit the web the most

Mozilla is the standard-bearer for the open web

I trust them more... they are a non-profit organization who have ideals that match my own

Makes the choices that benefit the web the most

Their commitment to supporting only free, open, standards-based technologies on the public web

Our industry is what it is today because of Mozilla. Mozilla has contributed in mass more than anyone else, and continues to

Without Mozilla there would be a lack of innovation in web technologies.

Google and the Open Web (selected verbatim responses)



Main Themes

Promotes new technologies, Corporate Resources, *Don't be Evil*, Embodies the Open Web, CORPORATE MENTALITY

They're developing many of tools that are based in open technologies and they're helping the communities in the development of this tools

Google are a serious driving factor behind the open web. Their effort with Chrome and their contributions to WebKit are putting invaluable pressure on especially Microsoft to join the future of the web, instead of fighting to hold people back in their proprietary forms

They help open development and push the boundaries. But it seems it's only as long as it benefits their own business

They embody the open web-- they are its lifeblood. They support big projects and put money into standards. Like a mostly benevolent dictator, really

They put their money, products, technology and engineers where their mouth is. They said they support the open web and they mean it.....They didn't just build it and hoist it over the corporate wall, they put the source code out there two and development is happening in the open

They are the most likely to become big brother

Try to remember Don't be evil

I don't trust them

Google has a sort of split personality when it comes to openness. It needs to kill the (advertising) half that keeps everything secret and tracks everyone without telling them, and put more behind the half that actually wants to help boost web standards

Google supports the open web in the same manner as Apple. Not for the sake of the open web itself, but rather because it (currently) benefits Google to do so. I fully believe that they could become a 'Microsoft' given the right circumstances

Google's problem is the size of the company. they hold all of the cards and though they tend to hold the line on being a good corporate citizen, they need to detail what it is they hold and how they will or will not use it

Opera and the Open Web (selected verbatim responses)



Main Themes

**Bleeding edge,
Accessible, An alternative,
Commitment to standards,
Does things quietly**

Opera is a great innovator and it's a pity that their browser is closed and a niche product

It's closed-source, but its commitment to open standards seems comparable to Mozilla's

They make a browser that works properly with current standards and bleeding edge ones. Very accessible people

They contribute to open technologies. push for standards agreements. Some of the people I follow on twitter are Opera personnel and they are always a voice in the standards debates

Some of the greatest features in browsers evolved out of Opera's innovations. Have to give them credit for making browsers better for users than simply content in the frame

The Opera guys are supporting their community and keeping on task. The fact that they are an alternative option makes them important

Opera's support for standards is impeccable

Opera is strongly compliant with open standards, and often on the forefront of supporting bleeding edge standards. Kudos to them

Always on the leading edge but quiet about it

Even though they have a proprietary product, they opt to support open standards and is usually the first to do so

Although not strictly open-source at it's core. A lot of what Opera does or fights for is to the benefit of open-source

Adobe and the Open Web (selected verbatim responses)



Main Themes

**Become open source,
Transition to HTML5,
Canvas, SVG,
Support Linux
Become part of the
community, **KILL FLASH****

Stop inventing stuff themselves and instead try and be an active part of the community and appreciate and contribute to what everyone else are doing

Transition from Flash towards SVG and Canvas, restructure PDF to make it easier to draw out content

Kill Flash and start supporting html5 right now

Make Flash open-source!

Adobe's flash player is the single technology that is locking the internet to specific hardware stacks at the moment. They lack the ability to support that. I don't really think this is intentionally bad behavior. They are just very very bad at what they do

Open source their technologies

Drop Flash and build HTML5/CSS3 authoring tools

Support Linux devs

Microsoft and the Open Web (selected verbatim responses)



Main Themes

**Trying....but
Kill old non-standard
browsers, Commit to
standards, open
web, IE9 is an
improvement**

Standards compliance PLEASE OH PLEASE

IE9 is a big step in the right direction for standards support, but we will still have to live with the mistakes of IE6, IE7, and IE8 for years to come. Keep moving forward and improving their support of web standards

Show long term commitment to building/supporting an open platform, rather than join the effort late, playing catch-up, only after they bleed market share and reputation. Stop pushing Silverlight

Microsoft has always seemed to be the arch-villain of openness, but they have been trying hard with IE9 and they are doing very well IN PARTS. However, they still seem to make a lot of crap judgments in old habit

Fully support the web standards for once in their life. They need to build the standards first and then add on their own touches. Support open audio and video out of the box

Innovate instead of catching up with what other browser vendors have been doing for years

Microsoft has made great strides to be more open and supportive. Supporting JQuery was a big deal. IIS is still finicky, but works pretty well. My main beef with M\$ is the cost associated with building a simple Web server

Microsoft has done so much damage to the open web, there is not much they can do to fix it. I am still supporting browsers all the way back to IE 6. And I will likely be supporting IE 8 for decades to come

They're getting there, but ultimately, IE9 needs more complete support for HTML5 and CSS3. Oh, and an official Silverlight implementation for Linux/UNIX would be great

Make IE standards compliant, FOR ONCE

Really the problem is their legacy software that never goes away. I avoid IE in all its flavours because of the pain that IE6 continues to cause

Although they are doing better with IE9, they still have a lot to do to really prove they're committed to the open web

Apple and the Open Web (selected verbatim responses)



Main Themes

**Closed platform, Against
openness, Better Webkit support,
ALLOW OS AND OTHER DEVICES
TO WORK WITH OTHER
PLATFORMS**

More support/effort to the WebKit open source project. The WebKit engine seems to work exclusively in Safari

Work with standards bodies to produce better standards rather than just going off on random proprietary ventures

Uses modern open browser engine (WebKit).
Drive HTML5 and CSS3 transforms support.
Pushes HTML5 adoption

Apple does a great job with WebKit, but they can do better

Relax control over what runs on their mobile devices. Flash may not be part of the open web per se, but it's still a widely used technology and it seems to me it should be up to the user what plug-ins they install and use

I do appreciate their contributions to WebKit/KHTML. But as far as openness is concerned, iOS is a very closed platform. This means I'm locked into whatever Apple has selected for me, and that means the definition of open web is in someone else's hands

Apple builds new APIs that they like to tout for corporate reasons rather than sharing with the rest of the community right away. Sure, there is WebKit, but I'd love to see public innovation rather than marketing new product

Apple's hardware products are locked into proprietary operating systems. I can't use an iPod shuffle 4G on a Linux computer. They claim to support the open web, but they push the use of H.264. They are hypocrites of openness

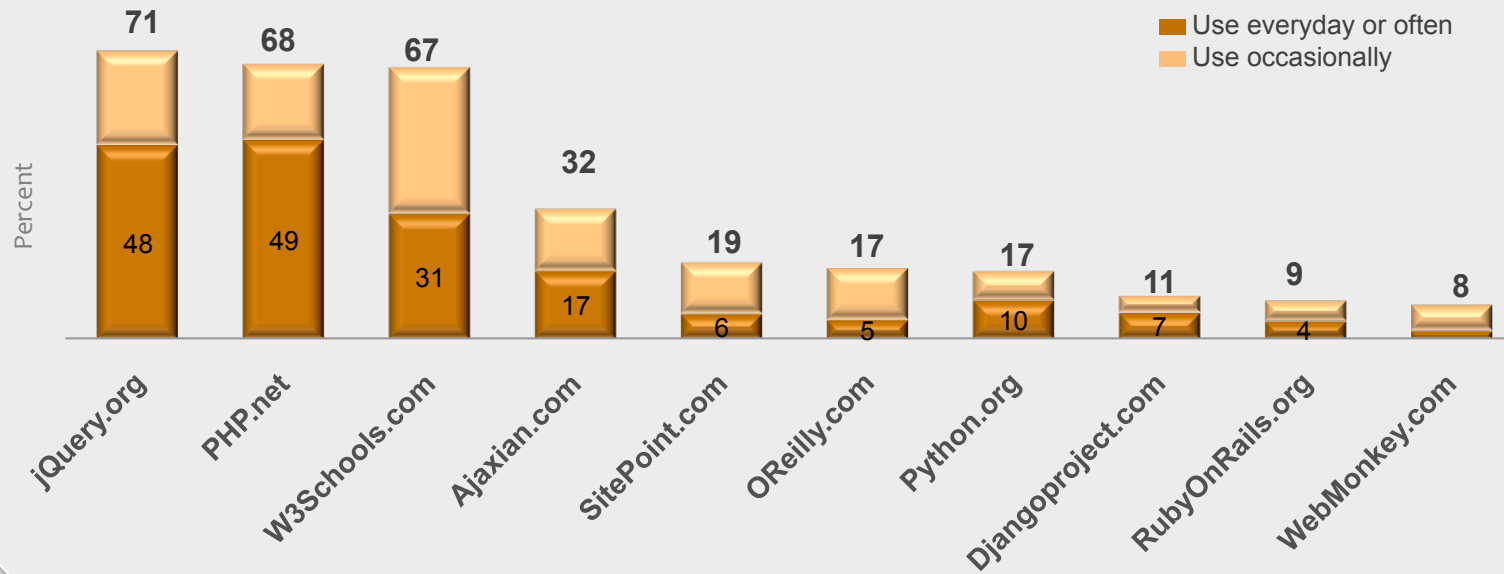
Apple is against openness. They could open up the iPhone to allow other browsers to be used on the device. (Opera doesn't count, because it just sends a screenshot.)

Play better in the mobile space. Stop pushing a world of vertically integrated user apps with themselves as sole gatekeeper

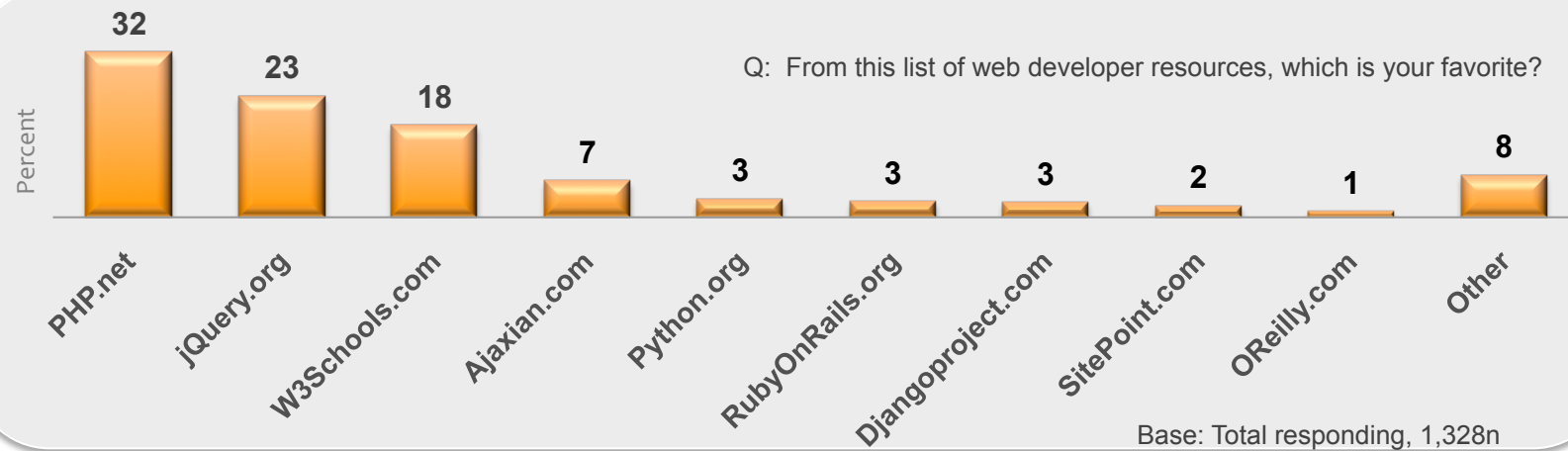


Developer Resources

Q: How often, if ever, do you use each of the following web developer resources?



Q: From this list of web developer resources, which is your favorite?



Base: Total responding, 1,328n

Developer Resources



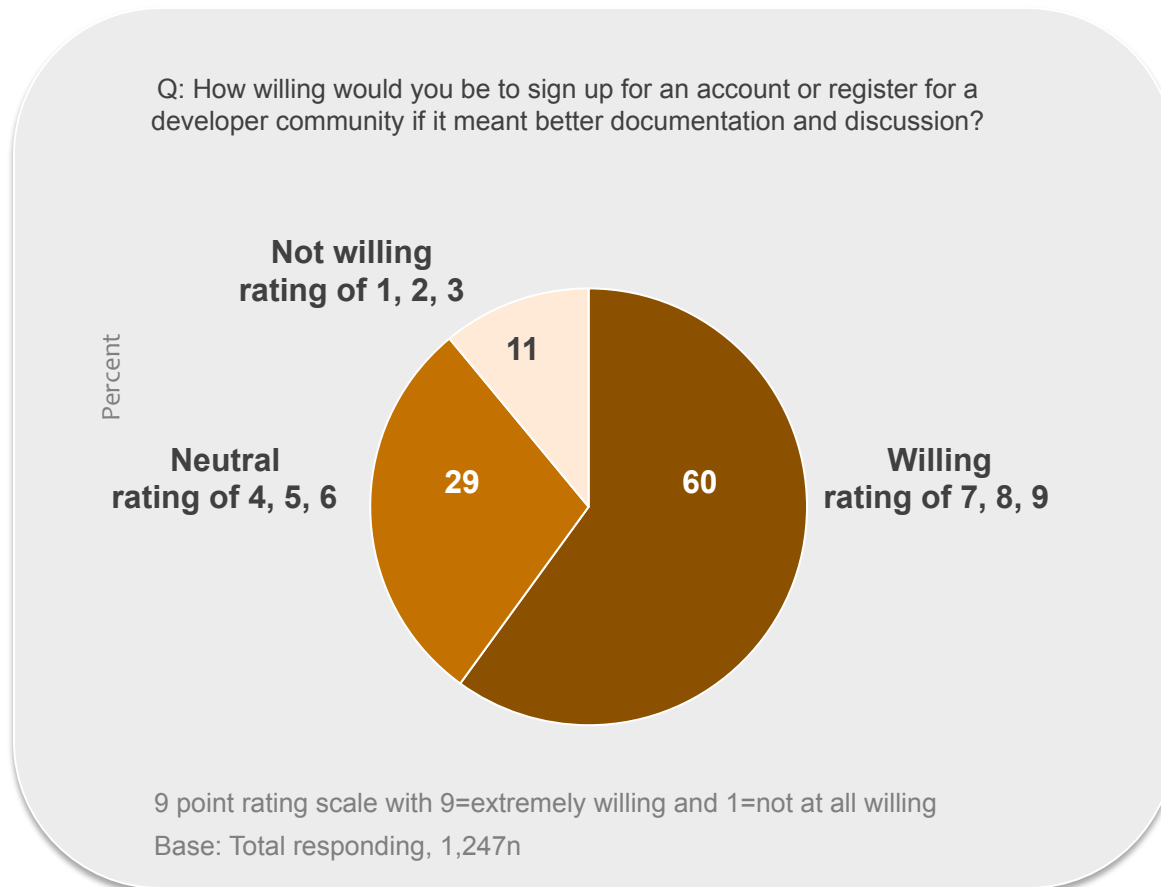
Performance Ratings

Q: How well does [developer resource] perform in each of the following attributes?
 Rating scale of 1-9 with 1=poor and 9=excellent, plus don't know.
 Table shows percent rating resource a 7, 8 or 9.

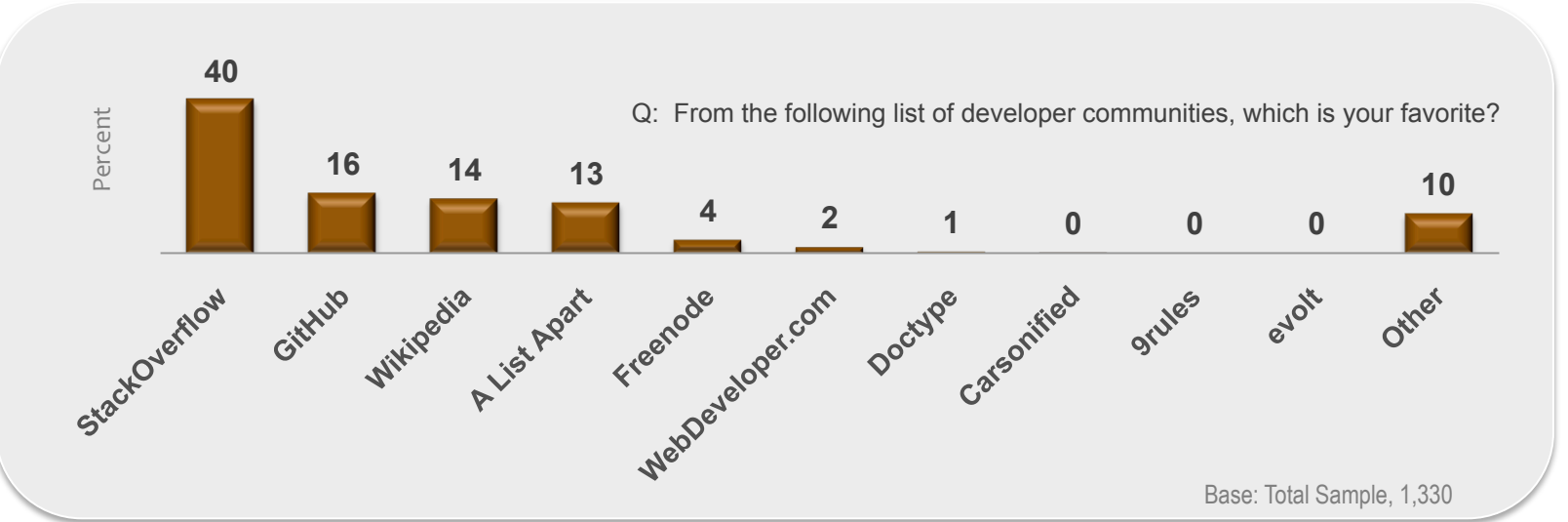
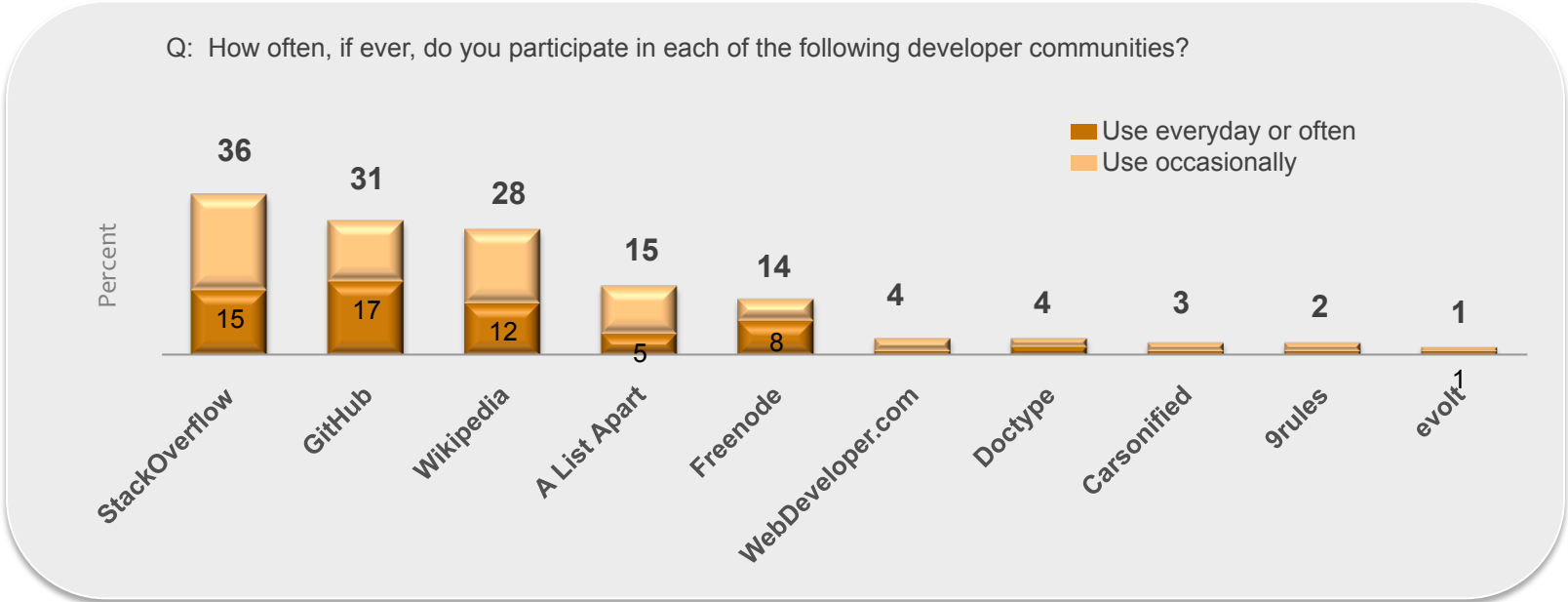
	Overall Usefulness	Clear documentation	Complete & accurate	Ease of navigation	Design & aesthetics	Ease of Search	Support Community
PHP.net	95	92	92	70	30	82	74
jQuery	94	89	87	80	78	73	71
W3Schools	87	85	81	71	47	70	29
Ajaxian	86	35	38	49	46	46	61
Django *	100	100	91	86	89	82	74
RubyOnRails*	100	89	95	79	65	58	84
Python *	92	95	90	74	69	74	45

Base: Selected Developer Resource as their favorite, and provided a rating of 1-9.
 Average base: PHP.net 375n, jQuery 285n, W3Schools 186n, Ajaxian 74n, Django 34n,
 RubyOnRails 38n, Python 38n
 * Caution, small base. N<50
 Ratings for SitePoint, O'Reilly, and WebMonkey not shown. Base too small (<30n)

Developer Resources



Developer Communities



Developer Communities



Performance Ratings

Q: How well does [developer community] perform in the following attributes?
 Rating scale of 1-9 with 1=poor and 9=excellent, plus don't know
 Table shows percent rating community a 7, 8 or 9.

	Overall effectiveness	Frequency of updates	Friendly contributors	Authority of information	Site Organization	Unique info	Design & Aesthetics	Owner Leader Accessible
StackOverflow	80	92	81	76	74	73	72	57
Github	72	88	88	72	84	80	84	83
Wikipedia	60	81	65	74	80	56	74	58
A List Apart	61	61	83	92	74	86	90	68
Freenode *	44	62	56	67	30	65	29	64

Base: Selected Developer Community as their favorite, and provided a rating of 1-9.
 Average base: StackOverflow 434,, Github 163, Wikipedia x141, A List Apart 126, Freenode 38
 * Caution, small base, N<50
 Ratings for Doctype, WebDeveloper, Carsonified, 9rules and evolt not shown. Base too small (<30n)

Highlight of Differences Between Types of Web Developers



	Total	Front end	Back end	Tool/ Library	Web Architect	Quality Assurance	Mobile Developer	Add On Developer	Web Designer
Base:	1333	1141	959	415	524	273	259	186	494
Years of Experience									
6+ years	52	54	53	58	63	54	61	53	52
Expertise									
Expert (rtg 7, 8, or 9)	67	68	69	78	76	70	81	72	65
OS Used Most									
Linux	30	28	33	36	34	28	24	36	24
Mac OS X	24	26	23	26	26	21	41	21	30
Windows 7	23	23	22	20	22	26	21	19	26
Windows XP	19	19	18	15	14	19	10	18	16
Industry									
Technology	38	38	39	45	40	34	39	41	32
Company Affiliated Website Users (everyday/often/occasionally)									
Google Code	64	64	66	69	65	60	72	75	64
Mozilla Developer Network	61	62	61	69	62	59	64	69	60
Microsoft Developer Network	21	20	20	26	23	18	21	25	19
Apple Developer Center	18	19	16	20	20	15	40	18	21
Sun Developer Network	11	11	13	14	14	13	16	13	12
Adobe Developer Connection	8	8	7	8	8	9	9	9	11
Oracle Technology Network	6	6	7	6	8	7	8	7	7

Highlight of Differences Between Types of Web Developers

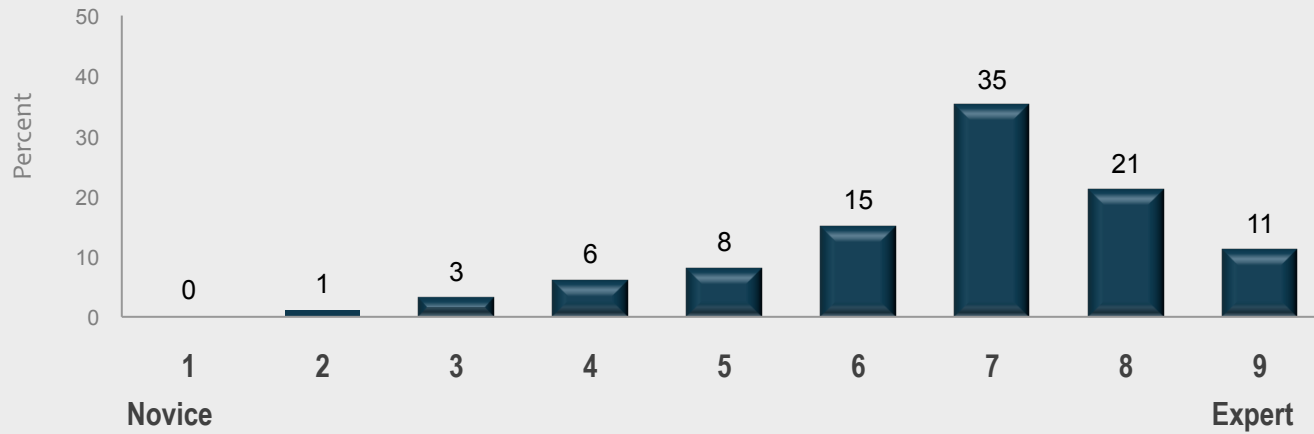


	Total	Front end	Back end	Tool/ Library	Web Architect	Quality Assurance	Mobile Developer	Add On Developer	Web Designer
Technologies Used									
HTML	98	98	98	97	97	98	98	97	98
CSS	96	97	97	97	97	97	97	95	96
JavaScript	96	97	97	98	97	97	98	98	94
PHP	80	81	81	81	78	81	78	88	83
Python	24	23	27	31	29	24	33	30	20
Flash	22	23	21	21	23	26	23	23	29
Java	20	20	22	20	23	22	31	23	17
Ruby	15	16	16	19	18	13	24	18	15
.NET	13	14	15	13	15	15	19	11	14
C#	12	12	13	13	14	13	18	9	12
Favorite developer resource									
PHP.net	32	32	35	37	35	33	26	41	30
jQuery.org	23	26	23	20	21	22	30	15	26
W3Schools.com	18	16	16	13	13	18	13	12	21
Ajaxian.com	7	7	5	9	8	5	11	7	6
Favorite Developer Community									
StackOverflow	40	41	43	37	44	35	43	31	39
GitHub	16	16	17	24	18	15	20	18	11
Wikipedia	14	13	13	14	12	15	11	20	14
A List Apart	13	14	11	9	12	13	14	9	19

Level of Expertise as Web Developer/Designer



Q: How would you rate your level of expertise as a web developer or web designer?



Base: Total responding, 1,331n