



Big Data in the House

Browser and Operating Systems Used from 2003-2017

Base: 1,068,512 web users

April 4, 2017

Methodology

- Data used was from studies that recorded the HTTP environment variables starting in 2003 and for which we had not destroyed the data at client request.
- 924 web forms were used resulting in 1,048,512 usable cases for which we had the date and browser/OS information.
- Both completed and aborted survey accesses were used.
- One major banking client with 160 studies was omitted as their working environment does not reflect the wider web population.

Distribution over time of records used

Variation by year is due to business volume as well as client requests for destruction of all data collected on their behalf.

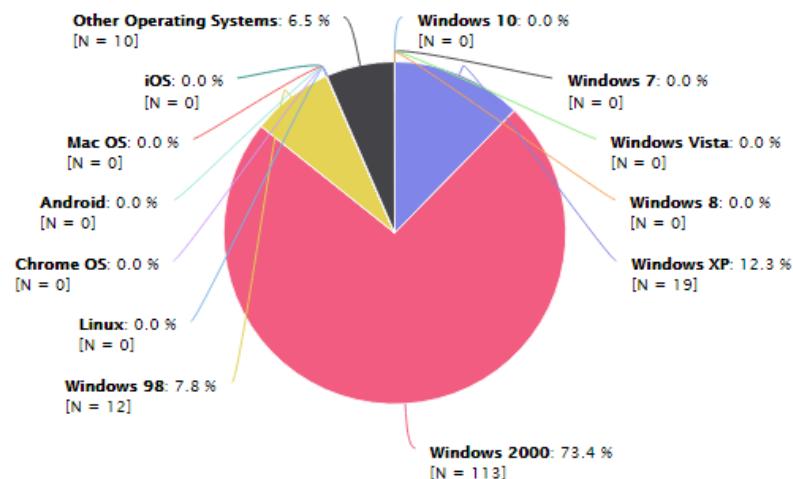
These requests vary from year to year.

The data was collected at the end of March 2017.

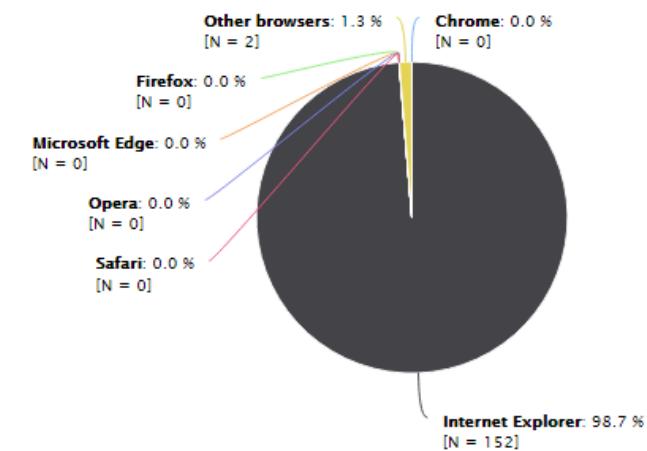
Row Labels	Count of year
2003	154
2004	19688
2005	59717
2006	119082
2007	204625
2008	144140
2009	100313
2010	71261
2011	84952
2012	29100
2013	20227
2014	62791
2015	89960
2016	32831
2017	9671
(blank)	
Grand Total	1048512

2003

User agent – Operating System



User agent – Browser
----| Estimated mobile users: 0 % |----

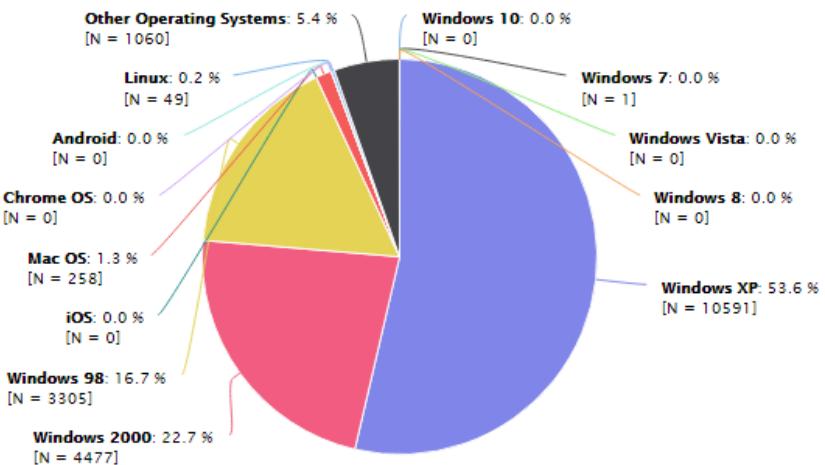


	Total
Windows 10	0
Windows 7	0
Windows Vista	0
Windows 8	0
Windows XP	19
Windows 2000	113
Windows 98	12
iOS	0
Mac OS	0
Android	0
Chrome OS	0
Linux	0
Other Operating Systems	10

	Total
Chrome	0
Internet Explorer	152
Firefox	0
Microsoft Edge	0
Opera	0
Safari	0
Other browsers	2

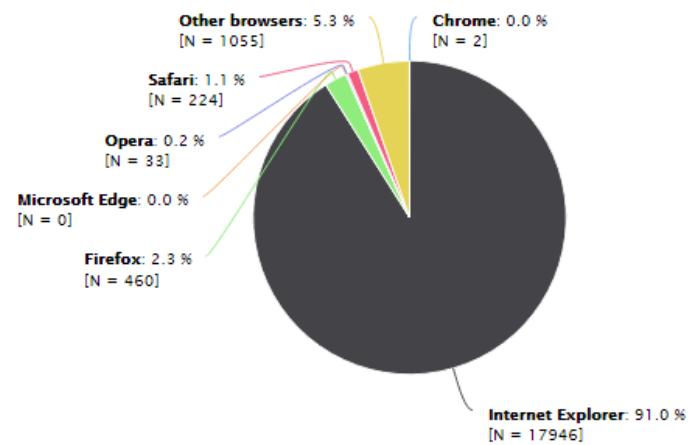
2004

User agent – Operating System



User agent – Browser

----| Estimated mobile users: .02 % |----

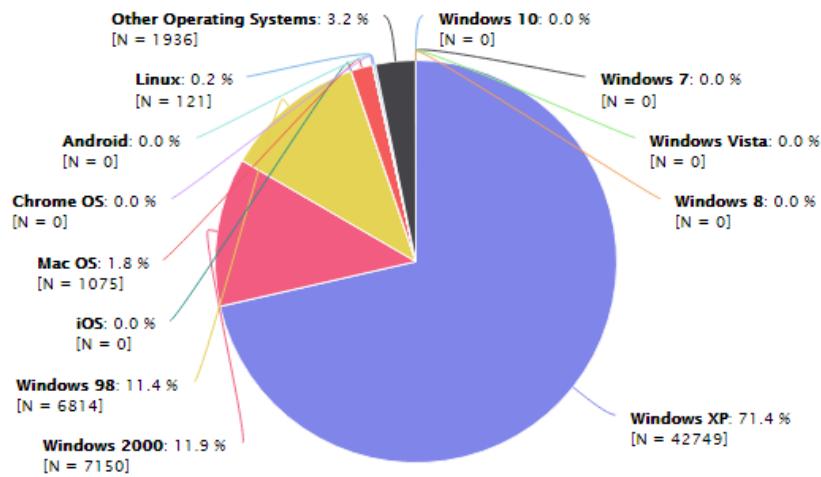


	Total
Windows 10	0
Windows 7	1
Windows Vista	0
Windows 8	0
Windows XP	10591
Windows 2000	4477
Windows 98	3305
iOS	0
Mac OS	258
Android	0
Chrome OS	0
Linux	49
Other Operating Systems	1060

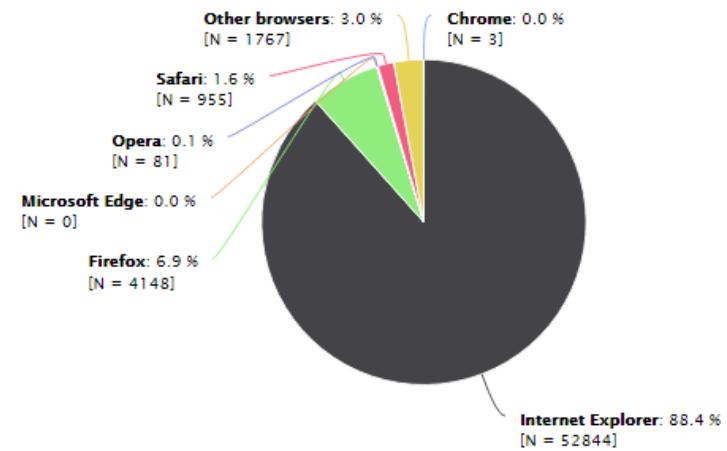
	Total
Chrome	2
Internet Explorer	17946
Firefox	460
Microsoft Edge	0
Opera	33
Safari	224
Other browsers	1055

2005

User agent - Operating System



User agent - Browser ----| Estimated mobile users: .07 % |----

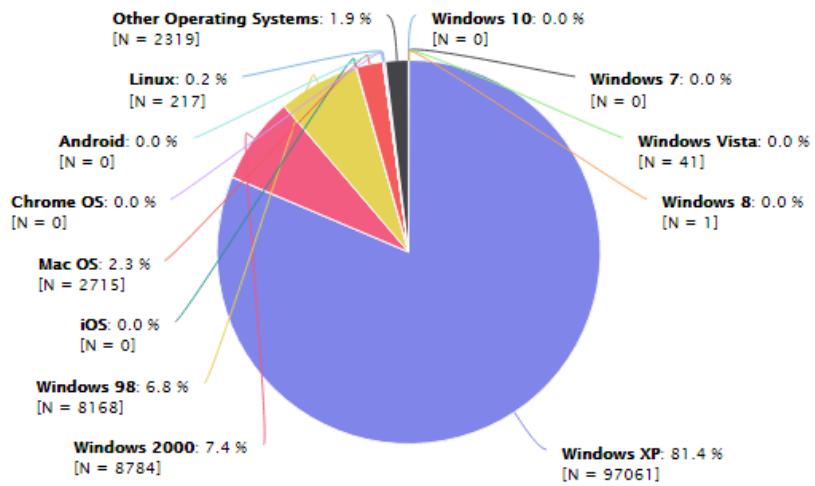


	Total
Windows 10	0
Windows 7	0
Windows Vista	0
Windows 8	0
Windows XP	42749
Windows 2000	7150
Windows 98	6814
iOS	0
Mac OS	1075
Android	0
Chrome OS	0
Linux	121
Other Operating Systems	1936

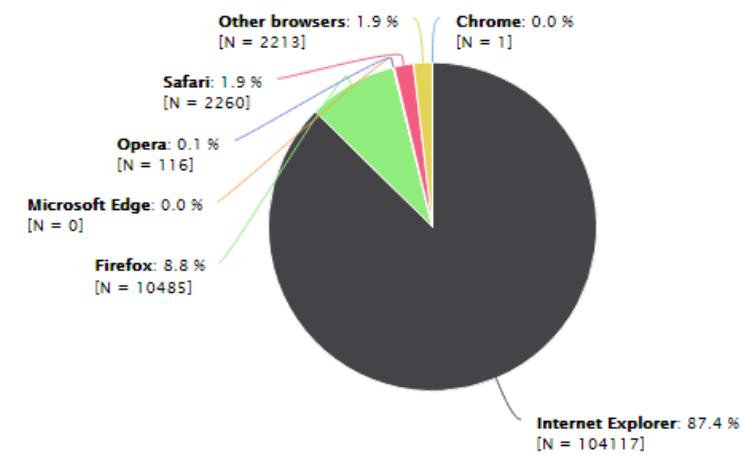
	Total
Chrome	3
Internet Explorer	52844
Firefox	4148
Microsoft Edge	0
Opera	81
Safari	955
Other browsers	1767

2006

User agent - Operating System



User agent - Browser
----| Estimated mobile users: .08 % |----



Total

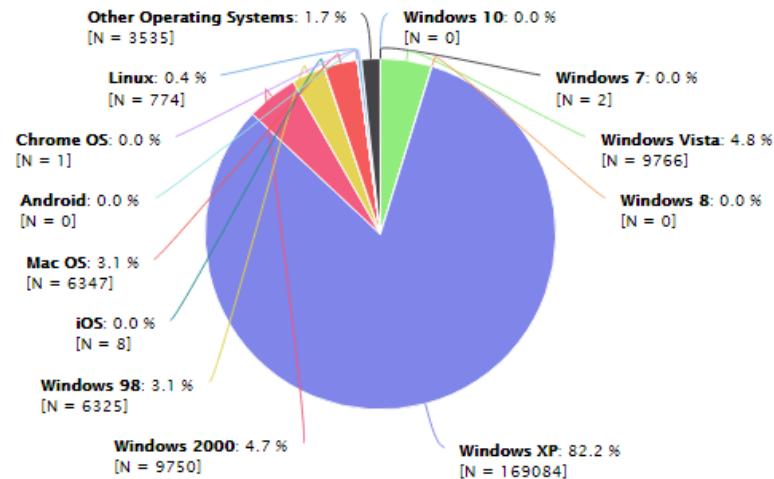
	Total
Windows 10	0
Windows 7	0
Windows Vista	41
Windows 8	1
Windows XP	97061
Windows 2000	8784
Windows 98	8168
iOS	0
Mac OS	2715
Android	0
Chrome OS	0
Linux	217
Other Operating Systems	2319

Total

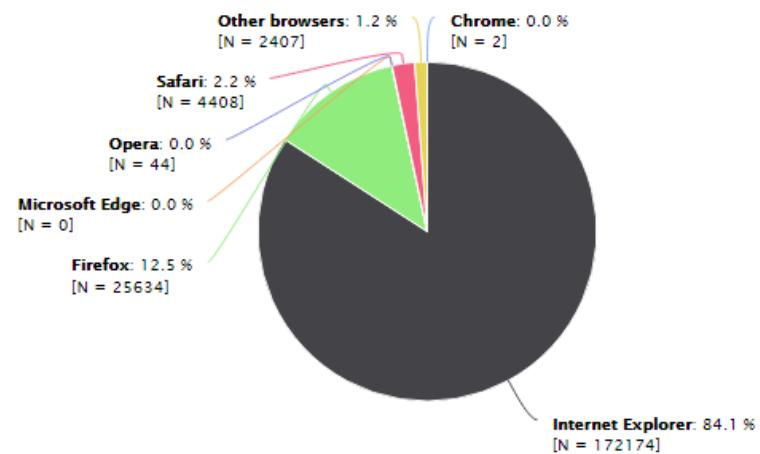
	Total
Chrome	1
Internet Explorer	104117
Firefox	10485
Microsoft Edge	0
Opera	116
Safari	2260
Other browsers	2213

2007

User agent – Operating System



User agent – Browser
----| Estimated mobile users: .18 % |----



Total

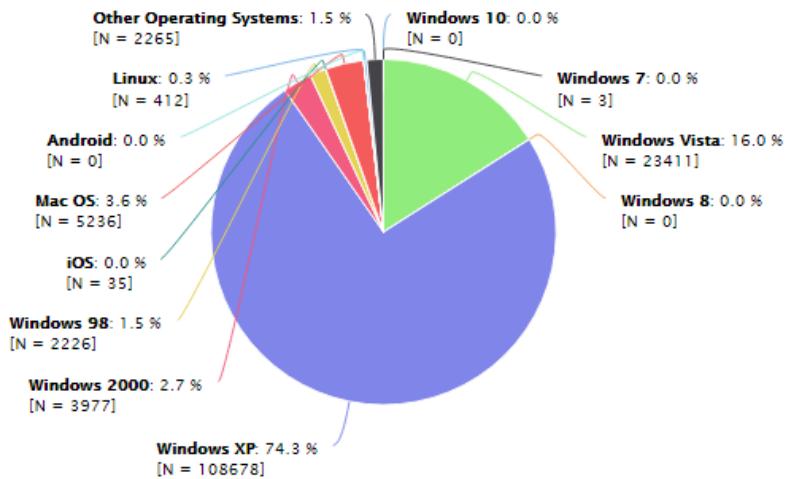
	Total
Windows 10	0
Windows 7	2
Windows Vista	9766
Windows 8	0
Windows XP	169084
Windows 2000	9750
Windows 98	6325
iOS	8
Mac OS	6347
Android	0
Chrome OS	1
Linux	774
Other Operating Systems	3535

Total

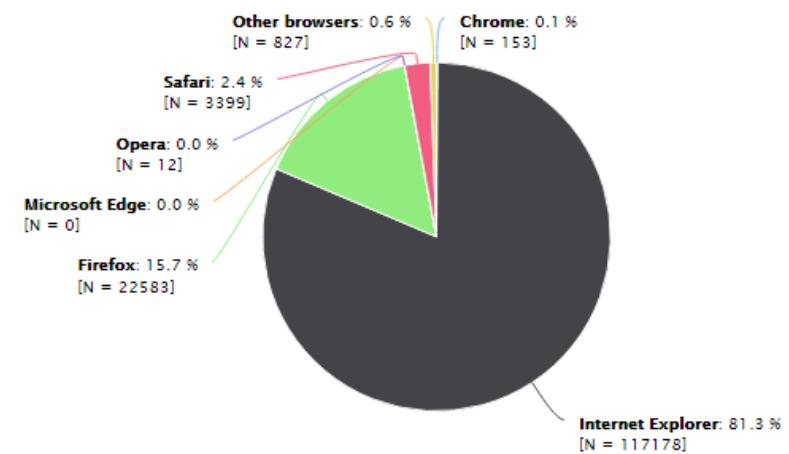
	Total
Chrome	2
Internet Explorer	172174
Firefox	25634
Microsoft Edge	0
Opera	44
Safari	4408
Other browsers	2407

2008

User agent – Operating System

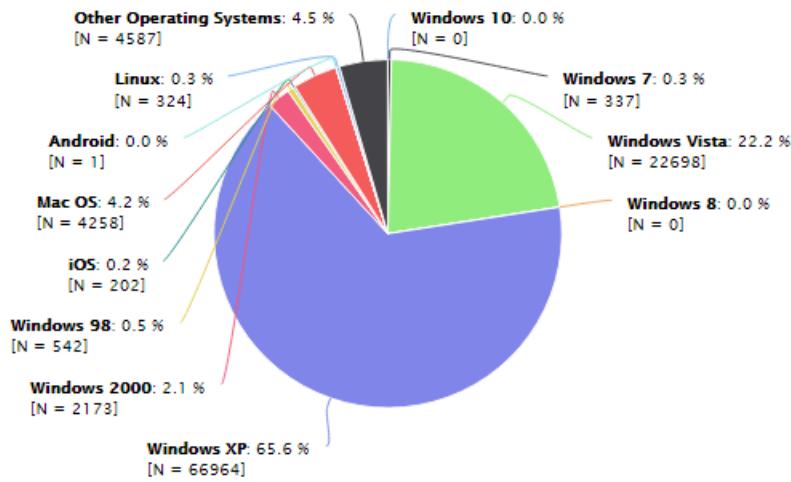


User agent – Browser
----| Estimated mobile users: .23 % |----

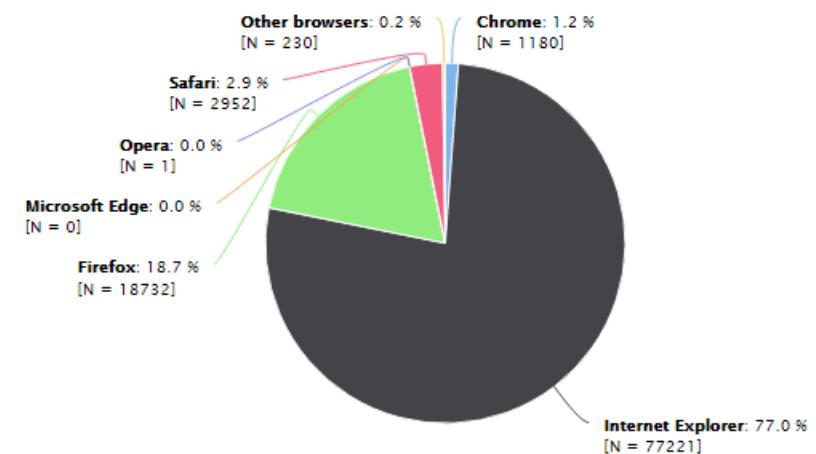


2009

User agent – Operating System



User agent – Browser
----| Estimated mobile users: .51 % |----

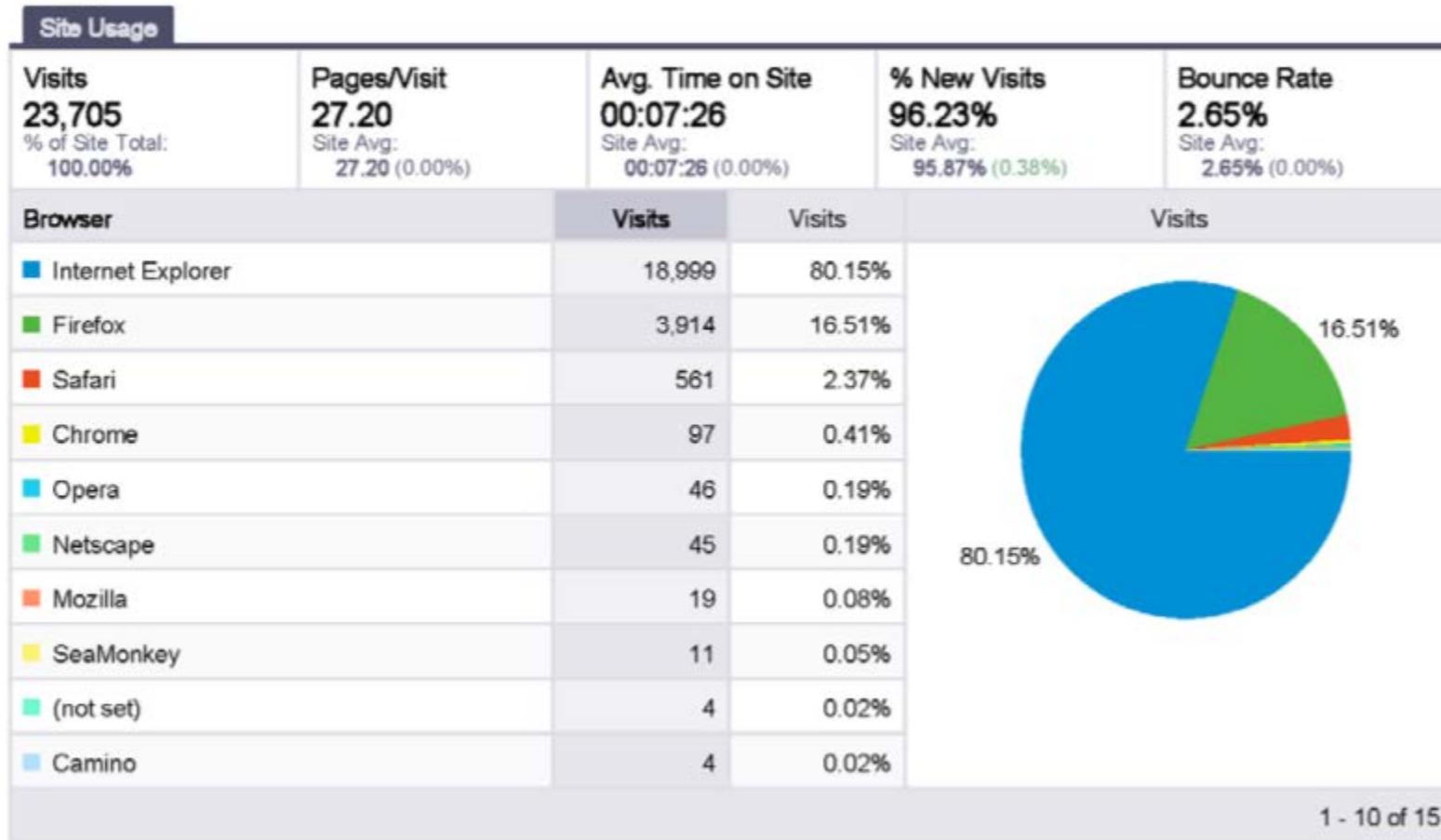


	Total
Windows 10	0
Windows 7	337
Windows Vista	22698
Windows 8	0
Windows XP	66964
Windows 2000	2173
Windows 98	542
iOS	202
Mac OS	4258
Android	1
Chrome OS	0
Linux	324
Other Operating Systems	4587

	Total
Chrome	1180
Internet Explorer	77221
Firefox	18732
Microsoft Edge	0
Opera	1
Safari	2952
Other browsers	230

When we started Google Analytics we see a very similar picture.
This is a snapshot from Dec 2008 (our first full month of data).

23,705 visits used 15 browsers



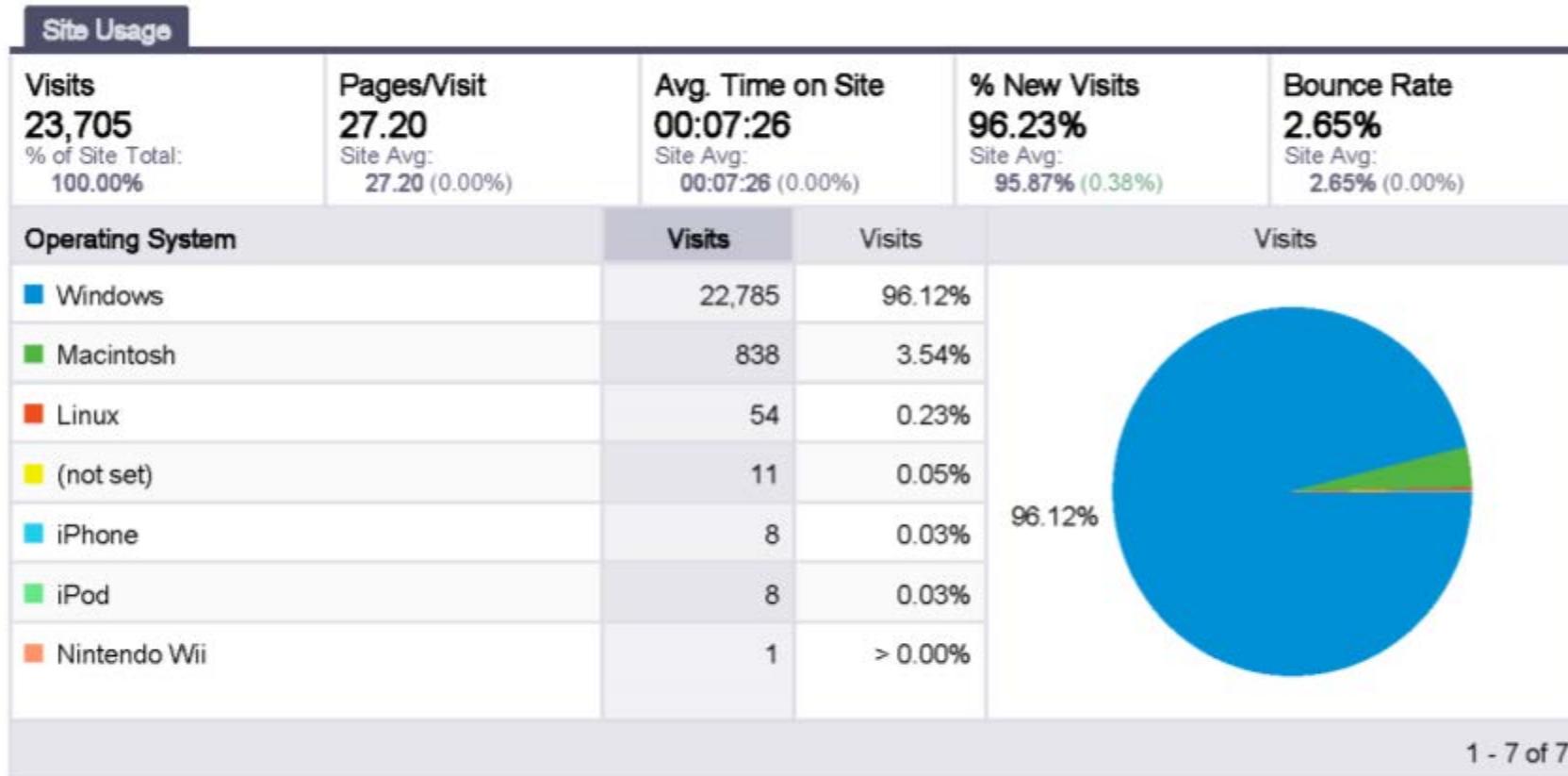
From our tabulations of 2008 data

	Total	2008
Chrome	96,501 9%	153 0%
Internet Explorer	714,641 68%	117,178 81%
Firefox	135,520 13%	22,583 16%
Opera	1,082 0%	12 0%
Safari	92,914 9%	3,399 2%
Other browsers	17,088 2%	827 1%

This validation makes it reasonable to assume the pre-2008 data collected is also accurate. The Google data collected since follows the trends of our internal records pretty well.

As with the browser data, this Google Analytics snapshot from Dec 2008, matches the OS distribution of our internal data.

23,705 visits used 7 operating systems



The Dec 2008 Google snapshot shows that same OS distribution.

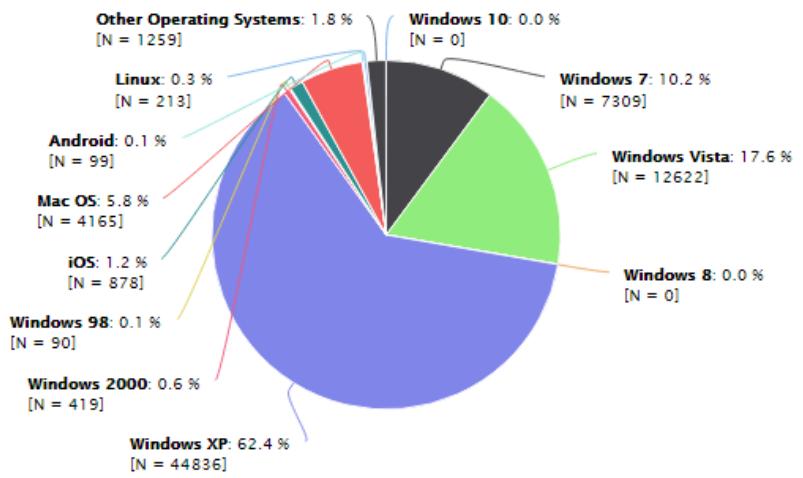
	Total	2008
Windows Vista	100,062 10%	23,411 18%
Windows XP	599,350 57%	108,678 75%
Windows 2000	37,082 4%	3,977 3%
Windows 98	27,531 3%	2,226 2%
iOS	46,508 4%	35 0%
Mac OS	61,735 6%	5,236 4%
Linux	2,658 0%	412 0%
Other Operating Systems	26,385 3%	2,265 2%

Summary of findings 2003-2009

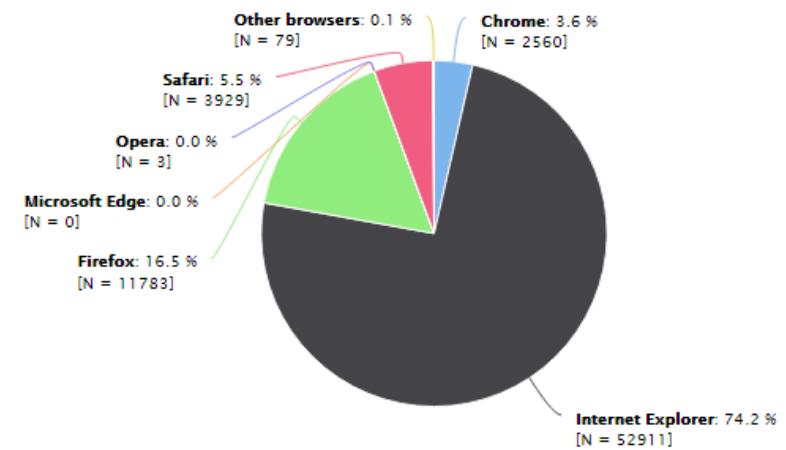
- While 2003 had few records it reflects the early Windows/Internet Explorer domination of the era.
- In 2004 XP took off, Microsoft ruled, Mac OS and Linux were fringe players.
- 2005-2006 see the strengthening of XP's position as dominate platform but IE starts to slide as Safari and Firefox start to eat away at the browser market share.
- 2007-2009 sees Firefox growing at the expense of IE and Chrome appears but is slow to gain traction among survey takers.
- In 2009 we see the slow start of Android and IOS systems.

2010

User agent – Operating System

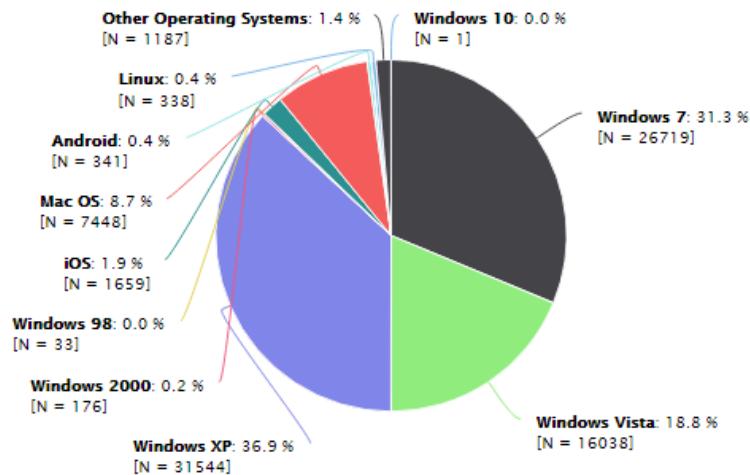


User agent – Browser
----| Estimated mobile users: 2.25 % |----

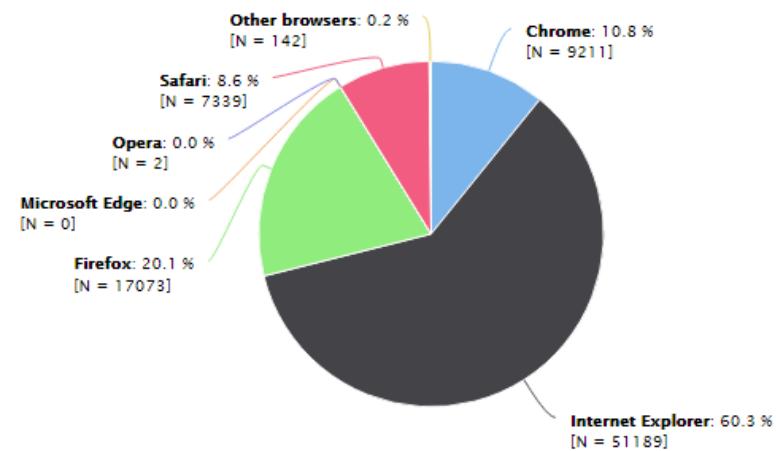


2011

User agent – Operating System

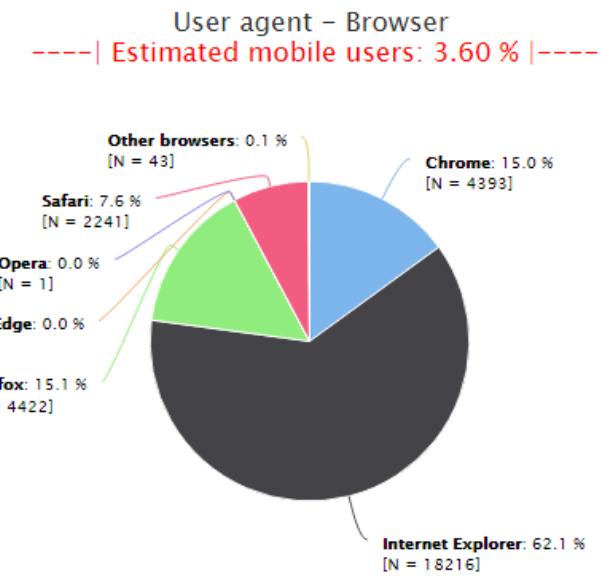
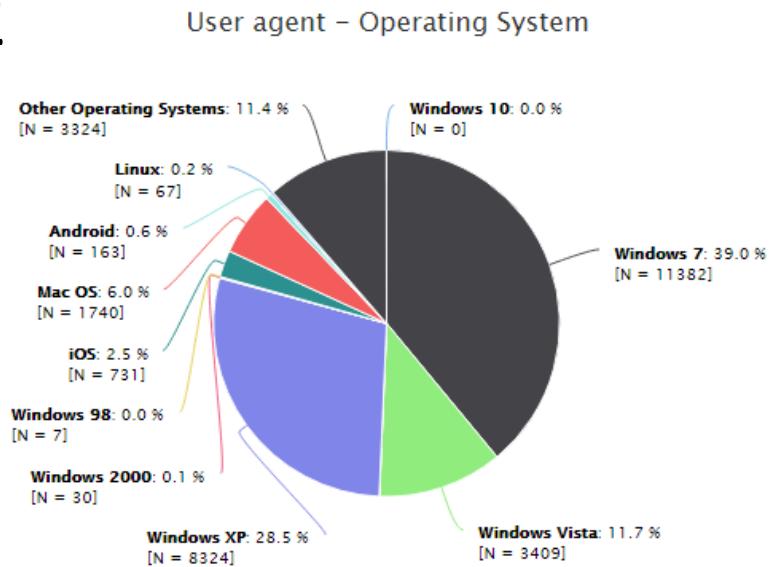


User agent – Browser
----| Estimated mobile users: 3.37 % |----



	Total
Chrome	9211
Internet Explorer	51189
Firefox	17073
Microsoft Edge	0
Opera	2
Safari	7339
Other browsers	142

2012

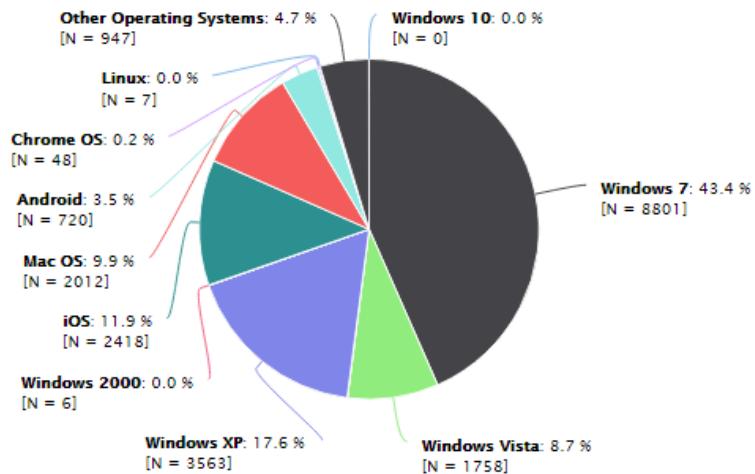


	Total
Windows 10	0
Windows 7	11382
Windows Vista	3409
Windows 8	0
Windows XP	8324
Windows 2000	30
Windows 98	7
iOS	731
Mac OS	1740
Android	163
Chrome OS	1
Linux	67
Other Operating Systems	3324

	Total
Chrome	4393
Internet Explorer	18216
Firefox	4422
Microsoft Edge	0
Opera	1
Safari	2241
Other browsers	43

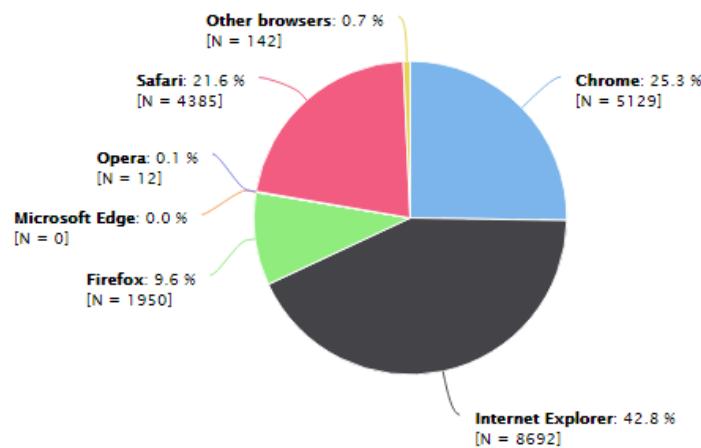
2013

User agent – Operating System



User agent – Browser

----| Estimated mobile users: 16.28 % |----



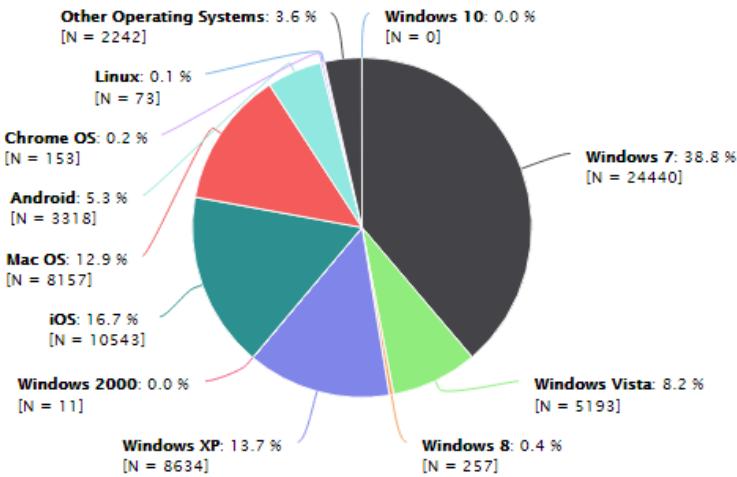
	Total
Chrome	5129
Internet Explorer	8692
Firefox	1950
Microsoft Edge	0
Opera	12
Safari	4385
Other browsers	142

Summary of findings 2010-2013

- 2010 see some growth in Chrome but still less than Safari. Mobile creeps up to a 2% share of connections. Windows 7 growths but XP is still king among Microsoft users.
- 2011 Windows 7 explodes, XP fading fast, Mac OS is back. Chrome is up to 10% but still ½ of Firefox and IE still holds 60%. Mobile up 50% over 2010.
- 2012 Mobile is steady and still under 4%, Chrome up to 15% share at the expense of Firefox. IE still at 60%
- 2013 Mobile explodes 16% of connections on phone or tablets. Chrome hits 25%, IE sliding fast dropping to 43%, Safari rising largely due to mobile.

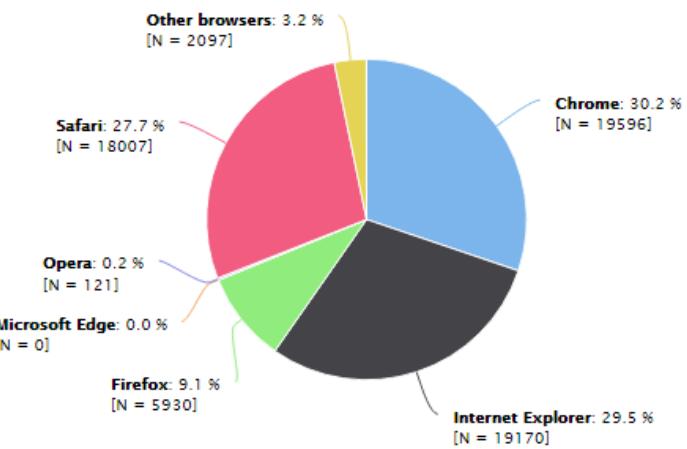
2014

User agent - Operating System



User agent - Browser

----| Estimated mobile users: 22.19 % |----

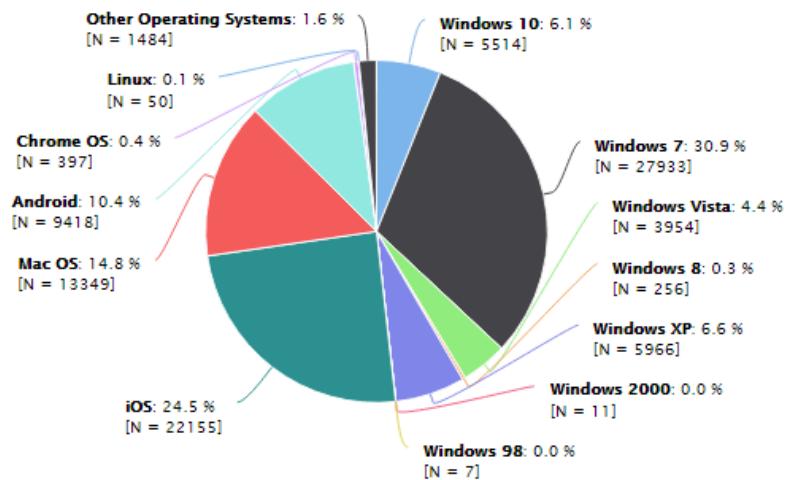


	Total
Windows 10	0
Windows 7	24440
Windows Vista	5193
Windows 8	257
Windows XP	8634
Windows 2000	11
Windows 98	1
iOS	10543
Mac OS	8157
Android	3318
Chrome OS	153
Linux	73
Other Operating Systems	2242

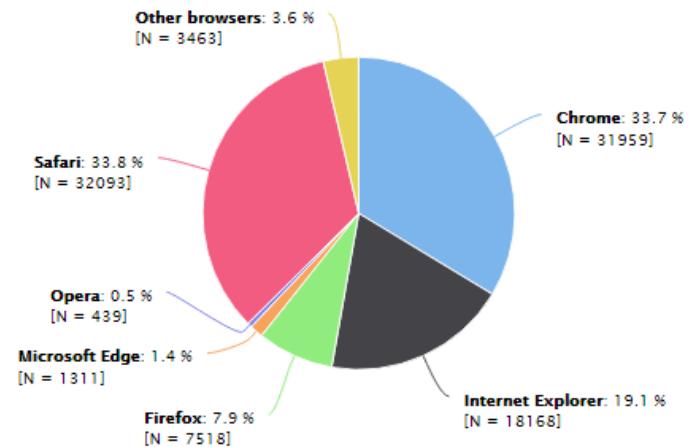
	Total
Chrome	19596
Internet Explorer	19170
Firefox	5930
Microsoft Edge	0
Opera	121
Safari	18007
Other browsers	2097

2015

User agent – Operating System



User agent – Browser
----| Estimated mobile users: 34.01 % |----

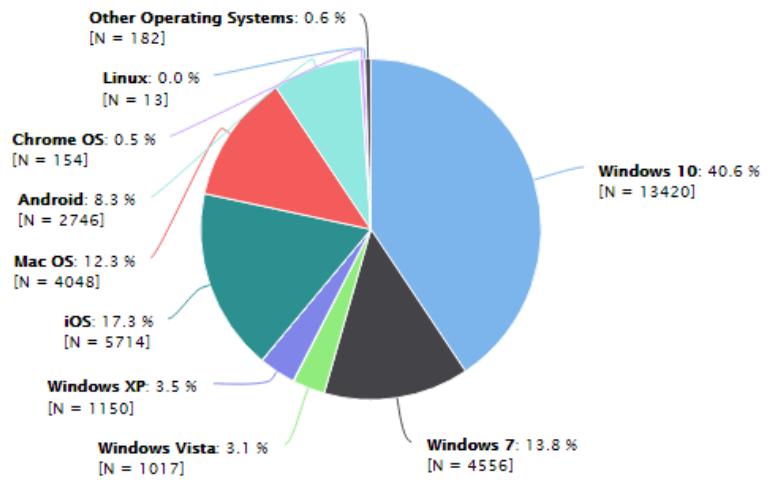


	Total
Windows 10	5514
Windows 7	27933
Windows Vista	3954
Windows 8	256
Windows XP	5966
Windows 2000	11
Windows 98	7
iOS	22155
Mac OS	13349
Android	9418
Chrome OS	397
Linux	50
Other Operating Systems	1484

	Total
Chrome	31959
Internet Explorer	18168
Firefox	7518
Microsoft Edge	1311
Opera	439
Safari	32093
Other browsers	3463

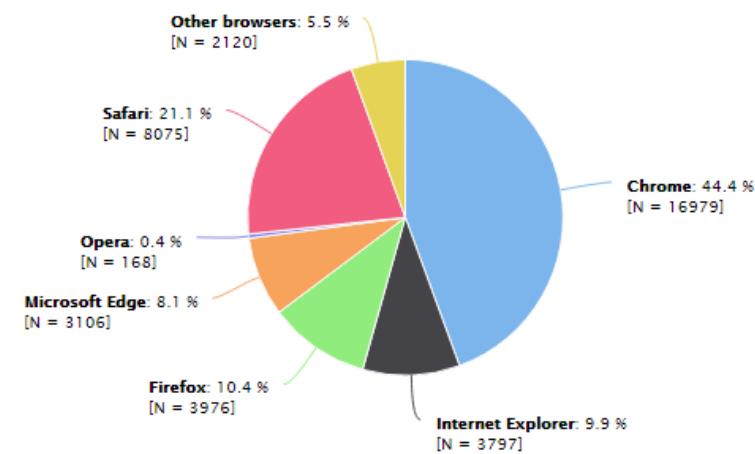
2016

User agent – Operating System



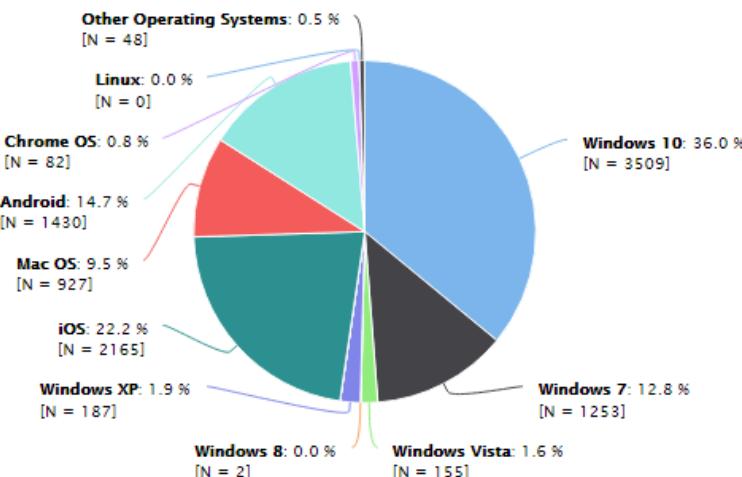
User agent – Browser

----| Estimated mobile users: 24.41 % |----

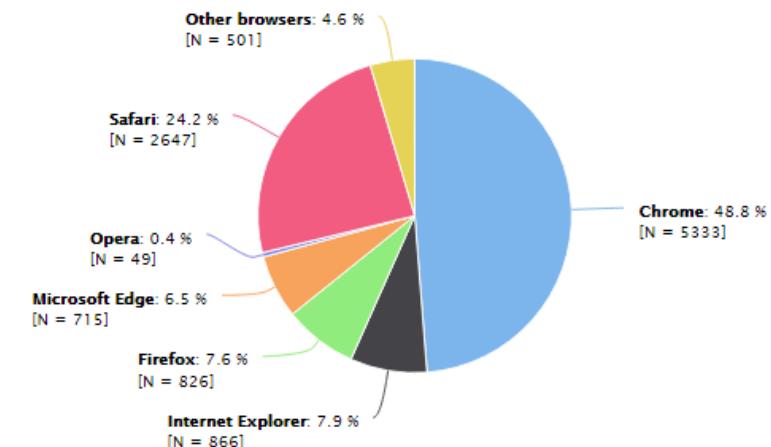


2017

User agent – Operating System



User agent – Browser
----| Estimated mobile users: 34.68 % |----

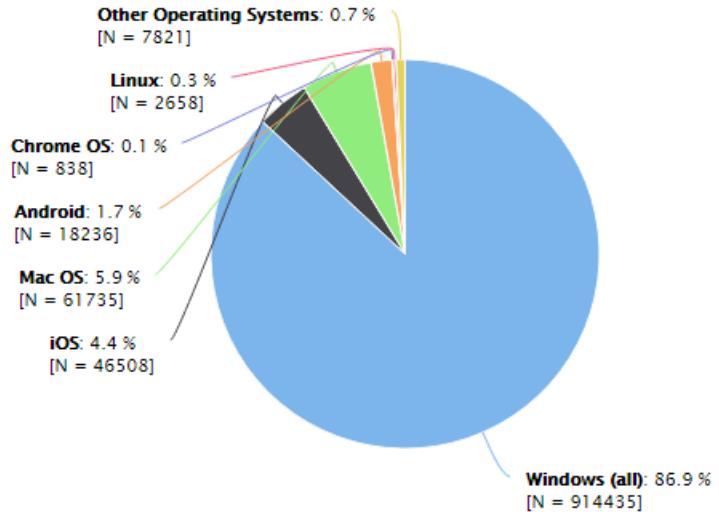


Summary of findings 2014-2017

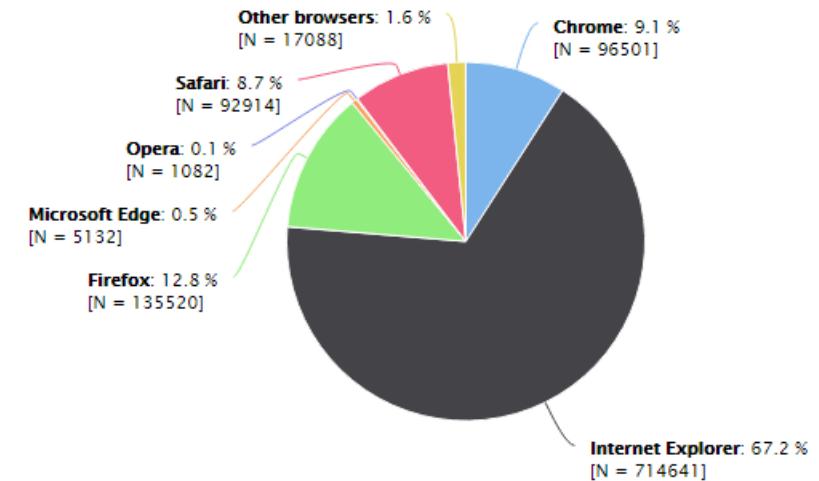
- 2014 Mobile takes 22% of all activity. Chrome hits 30% and exceeds IE for the first time. Safari has almost the same share as IE.
- 2015 Mobile spikes to 34%, IE is on it's deathbed at 19%, Chrome has 1/3 the browser share as does Safari (due to Mobile). Windows 10 appears as does Chrome OS.
- 2016 We see a drop in mobile to 24% but think this is due to the types of surveys done rather than an actual drop as 2017 returns to the 2015 level. Chrome is at 44% and IE under 10%.
- 2017 The data was collected at the end of March but the early view has mobile at 45%, Chrome at 49%, IE under 8% as is Firefox.

2013-2017 Cumulative

User agent – Operating System



User agent – Browser
----| Estimated mobile users: 6.30 % |----



	Total
Windows (all)	914435
iOS	46508
Mac OS	61735
Android	18236
Chrome OS	838
Linux	2658
Other Operating Systems	7821

	Total
Chrome	96501
Internet Explorer	714641
Firefox	135520
Microsoft Edge	5132
Opera	1082
Safari	92914
Other browsers	17088

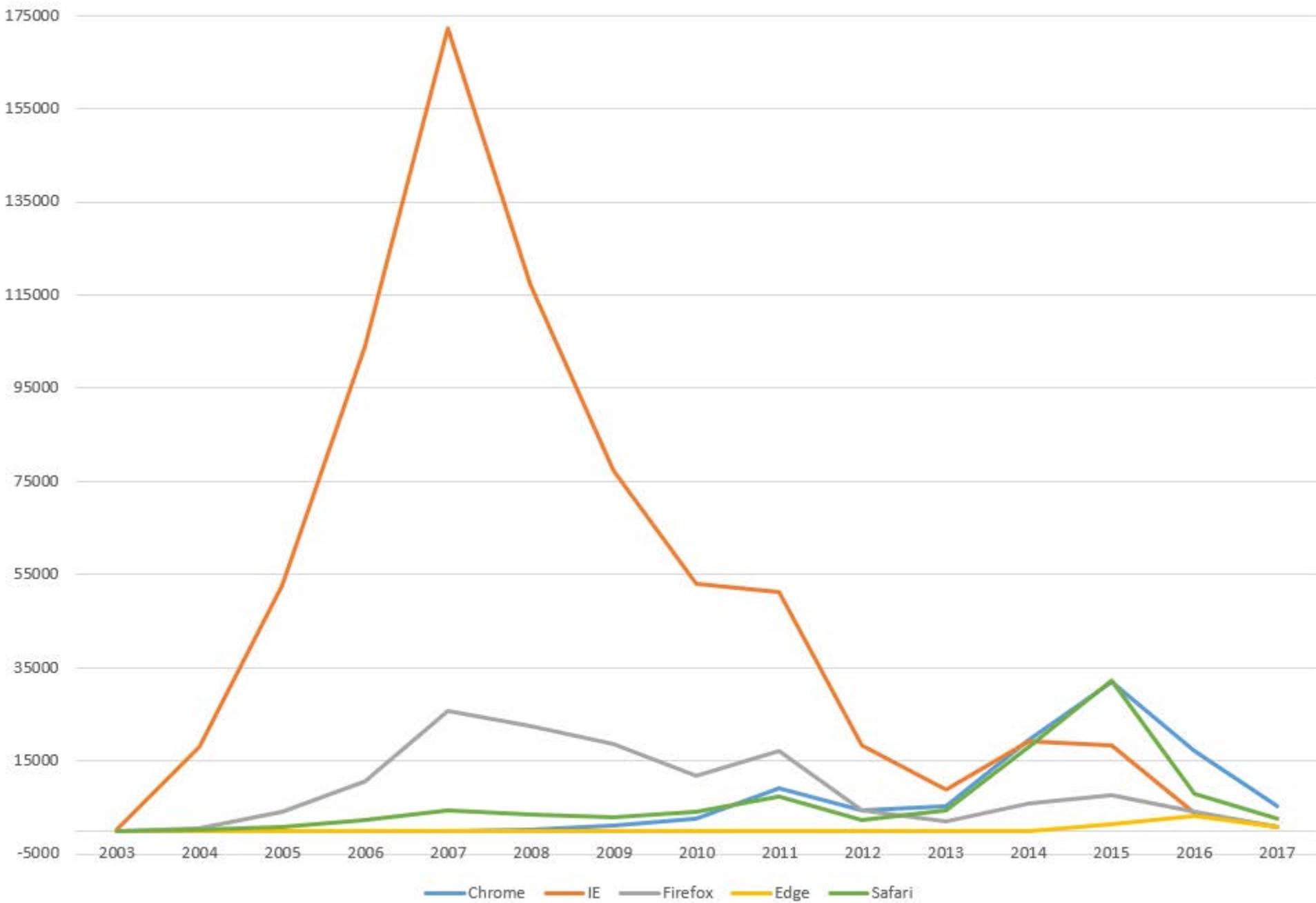
Browser trends over time

	Total	YEAR															
		2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	
Chrome	96,501 9%						153 0%	1,180 1%	2,560 4%	9,211 11%	4,393 15%	5,129 25%	19,596 31%	31,959 38%	16,979 52%	5,333 55%	
Internet Explorer	714,641 68%	152 99%	17,946 91%	52,844 88%	104,117 87%	172,174 84%	117,178 81%	77,221 77%	52,911 74%	51,189 80%	18,216 63%	8,692 43%	19,170 31%	18,168 20%	3,797 12%	866 9%	
Firefox	135,520 13%		460 2%	4,148 7%	10,485 9%	25,634 13%	22,583 16%	18,732 19%	11,783 17%	17,073 20%	4,422 15%	1,950 10%	5,930 9%	7,518 8%	3,976 12%	826 9%	
Microsoft Edge	5,132 0%														1,311 1%	3,106 9%	715 7%
Opera	1,082 0%		33 0%	81 0%	116 0%	44 0%	12 0%	1 0%	3 0%	2 0%	1 0%	12 0%	121 0%	439 1%	168 1%	49 1%	
Safari	92,914 9%		224 1%	955 2%	2,260 2%	4,408 2%	3,399 2%	2,952 3%	3,929 6%	7,339 8%	2,241 8%	4,385 22%	18,007 29%	32,093 36%	8,075 25%	2,647 27%	
Other browsers	17,088 2%	2 1%	1,055 5%	1,767 3%	2,213 2%	2,407 1%	827 1%	230 0%	79 0%	142 0%	43 0%	142 1%	2,097 3%	3,463 4%	2,120 6%	501 5%	

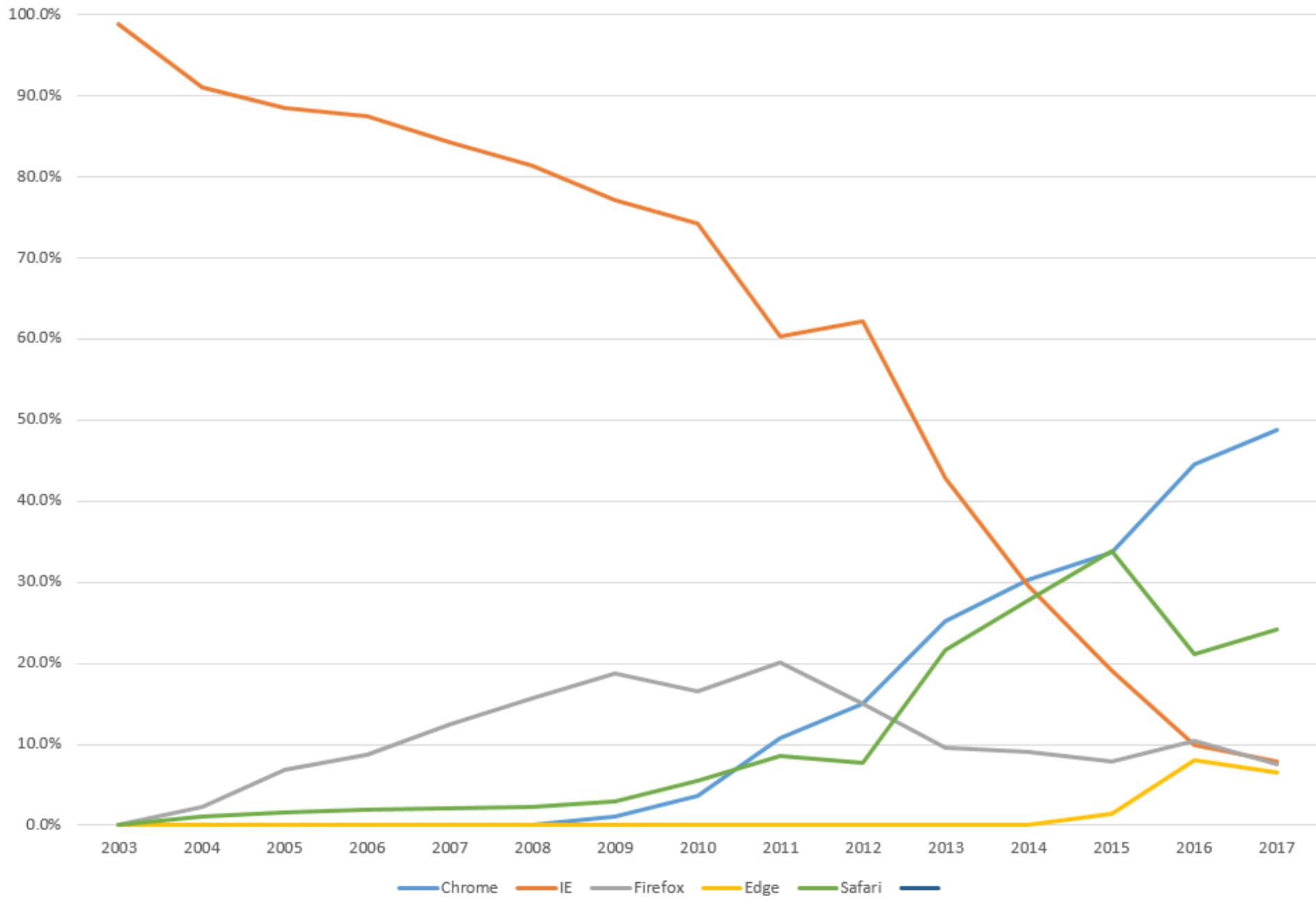
Operating system trends over time

	Total	YEAR															
		2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	
Windows 10	22,444 2%													5,514 6%	13,420 41%	3,509 38%	
Windows 7	112,736 11%							337 0%	7,309 10%	26,719 31%	11,382 39%	8,801 44%	24,440 39%	27,933 31%	4,556 14%	1,253 13%	
Windows Vista	100,062 10%				41 0%	9,766 5%	23,411 18%	22,698 23%	12,622 18%	16,038 19%	3,409 12%	1,758 9%	5,193 8%	3,954 4%	1,017 3%	155 2%	
Windows 8	532 0%												3 0%	257 0%	256 0%	13 0%	2 0%
Windows XP	599,350 57%	19 12%	10,591 54%	42,749 72%	97,061 82%	169,084 83%	108,678 75%	66,964 67%	44,836 63%	31,544 37%	8,324 29%	3,563 18%	8,634 14%	5,966 7%	1,150 4%	187 2%	
Windows 2000	37,082 4%	113 73%	4,477 23%	7,150 12%	8,784 7%	9,750 5%	3,977 3%	2,173 2%	419 1%	176 0%	30 0%	6 0%	11 0%	11 0%	5 0%		
Windows 98	27,531 3%	12 8%	3,305 17%	6,814 11%	8,168 7%	6,325 3%	2,226 2%	542 1%	90 0%	33 0%	7 0%		1 0%	7 0%	1 0%		
iOS	46,508 4%						8 0%	35 0%	202 0%	878 1%	1,659 2%	731 3%	2,418 12%	10,543 17%	22,155 25%	5,714 17%	2,165 22%
Mac OS	61,735 6%		258 1%	1,075 2%	2,715 2%	6,347 3%	5,236 4%	4,258 4%	4,165 6%	7,448 9%	1,740 6%	2,012 10%	8,157 13%	13,349 15%	4,048 12%	927 10%	
Android	18,236 2%								1 0%	99 0%	341 0%	163 1%	720 4%	3,318 5%	9,418 10%	2,746 8%	1,430 15%
Chrome OS	838 0%									2 0%	1 0%	48 0%	153 0%	397 0%	154 0%	82 1%	
Linux	2,658 0%		49 0%	121 0%	217 0%	774 0%	412 0%	324 0%	213 0%	338 0%	67 0%	7 0%	73 0%	50 0%	13 0%		
Other Operating Systems	26,385 3%	10 8%	1,060 5%	1,936 3%	2,319 2%	3,535 2%	2,265 2%	4,587 5%	1,259 2%	1,187 1%	3,324 11%	947 5%	2,242 4%	1,484 2%	182 1%	48 0%	

Browsers used for Survey Logins 2003-2017 (the raw numbers)



Browser market share among survey respondents 2003-2017



Conclusions



- In 15 years we have moved from a world dominated by Windows 98 and Internet Explorer firmly planted in a desktop environment to one where Chrome is king of desktop and Safari + iOS dominate in the mobile space which is about 1/3 of all connections.
- Android running a variety of browsers is also a strong mobile player.
- Windows does however still rule the desktop space even though they eventually lost the browser war. Finally, almost two thirds of the 1,068,512 survey logins over 15 years have been on Windows XP using some version of Internet Explorer. Not a bad legacy for Microsoft.