**<FSOSS> Free Software and Open Source Symposium**

* Infographic References

**<?> why free software and open source?**

* <http://www.slideshare.net/ValaAfshar/10-reasons-to-use-ope-source-opensourcesdn-v4>

**<”> Free Software Foundation’s four essential freedoms**

* <http://www.gnu.org/philosophy/free-sw.en.html>
* <http://www.fsf.org/about/what-is-free-software>

**<!> growth of free software and open source**

* <http://www.ifross.org/en/what-difference-between-gplv2-and-gplv3>
* <https://en.wikipedia.org/wiki/GNU_General_Public_License>
* D. Riehle. 2008 “The Total Growth of Open Source”, Proceedings of the Fourth Conference on Open Source Systems
* <http://dirkriehle.com/2008/03/14/the-total-growth-of-open-source/>
* data for 2007-2013 extrapolated.
* <https://www.blackducksoftware.com/future-of-open-source>
* <http://www.linuxfoundation.org/news-media/announcements/2013/03/global-enterprises-increase-linux-adoption-critical-growth-areas>
* <http://www.linuxfoundation.org/publications/linux-foundation/linux-adoption-trends-end-user-report-2013>
* <http://osdelivers.blackducksoftware.com/category/community/future-of-open-source/>

**<$> business investment**

* [IBM](http://ibm.com/) just announced it will make a $1 billion investment to promote the development of Linux, a leading operating system for cloud and big data deployments in data centers.  
  <http://venturebeat.com/2013/09/17/ibm-to-invest-1b-in-linux-open-source-technologies/>
* Walmart, the mega retailer, has spent more than $2 million on the [Hapi project](http://hapijs.com/), which is a “rich framework for building applications and services” that “enables developers to focus on writing reusable application logic instead of spending time building infrastructure” according to its website.  
  <http://www.business2community.com/tech-gadgets/open-source-investment-realizes-sizable-results-01167375>
* HP says that over $1 billion will be invested within the Helion portfolio over the next two years, and the move to release OpenStack-based free software will join HP to the ranks of Red Hat and Oracle, which already offer OpenStack-based cloud hosting.  
  <http://www.zdnet.com/article/hp-to-invest-1bn-in-open-source-cloud-computing-launches-helion-portfolio/>
* <http://www.pcworld.com/article/2032306/linux-use-in-enterprises-jumps-again-survey.html>
* <http://www.linuxfoundation.org/publications/linux-foundation/linux-adoption-trends-end-user-report-2013>
* [Gartner: Hype Cycle for Open-Source Software, 2014](http://www.gartner.com/document/2811931?ref=solrAll&refval=157705681)   
  Open-source technologies are now embedded in almost all commercial software: By 2015, open-source technology will be included in at least 85% of all commercial software packages and 95% in mission-critical IT portfolios.

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[Hype Cycle for Open-Source Software, 2014](http://www.gartner.com/document/2811931?ref=solrAll&refval=157704219&qid=e52f8b7f0db7f52ba1472539621ffc64)

http://www.gartner.com/document/2811931?ref=solrAll&refval=157704219&qid=e52f8b7f0db7f52ba1472539621ffc64

• With each Gartner OSS survey taken in the past five years (prior to 2011), the amount of OSS that makes up responding organizations' portfolio has increased, from **less than 10 percent five years ago** [i.e. 2006] to more than an expected 30 percent within the next 18 months. In that same period, the rate of proprietary software has decreased at about the same rate as OSS usage has increased. However, internally developed software has also increased, suggesting that OSS is used most often in conjunction with internally built software rather than as a complete replacement for proprietary software.

* Dollars invested, deals completed & average deal size are growing 2011-2012
  + Source: <https://www.linkedin.com/pulse/20130419164101-1893586-open-source-is-eating-the-software-world>:



**Earlier this year Hadoop's rival Cloudera raised $900M** at a $4.1 billion valuation.

From <<http://www.linuxfoundation.org/news-media/blogs/browse/2014/12/2014-open-source-tipping-point>>

Linux server demand was positively impacted by high performance computing (HPC) and cloud infrastructure deployments, as hardware revenue improved 2.2% year over year in 4Q11 to $2.6 billion.

From <<http://www.zdnet.com/article/linux-servers-keep-growing-windows-unix-keep-shrinking/>>

For fiscal 2012, Red Hat reported earnings of $146.6 million, or 75 cents a share, on revenue of $1.13 billion, up 25 percent from a year ago

From <<http://www.zdnet.com/article/red-hat-the-first-billion-dollar-linux-company-has-arrived/>>

Microsoft is investing in Cyanogen, the startup behind Cyanogen Mod, an increasingly popular—and very open—incarnation of Google’s mobile operating system.

From <<http://www.wired.com/2015/01/microsoft-invest-android-startup-cyanogen-says-report/>>

[https://cyngn.com/press/cyanogen-announces-strategic-partnership-with-microsoft April 16](https://cyngn.com/press/cyanogen-announces-strategic-partnership-with-microsoft%20April%2016)

For example, every five startups using hapi translated to the value of one full time developer, while every ten large companies translated to one full time senior developer.

From <<http://hueniverse.com/2014/08/15/open-source-aint-charity/>>

<https://www.blackducksoftware.com/future-of-open-source>   
Sixty-four percent of companies currently participate in open source projects – up from 50 percent in 2014– and over the next 2-3 years, 88 percent are expected to increase contributions to open source projects.  
**Corporate participation in Open Source: 50% in 2014, 64% in 2015, 87% in 2017-2018**

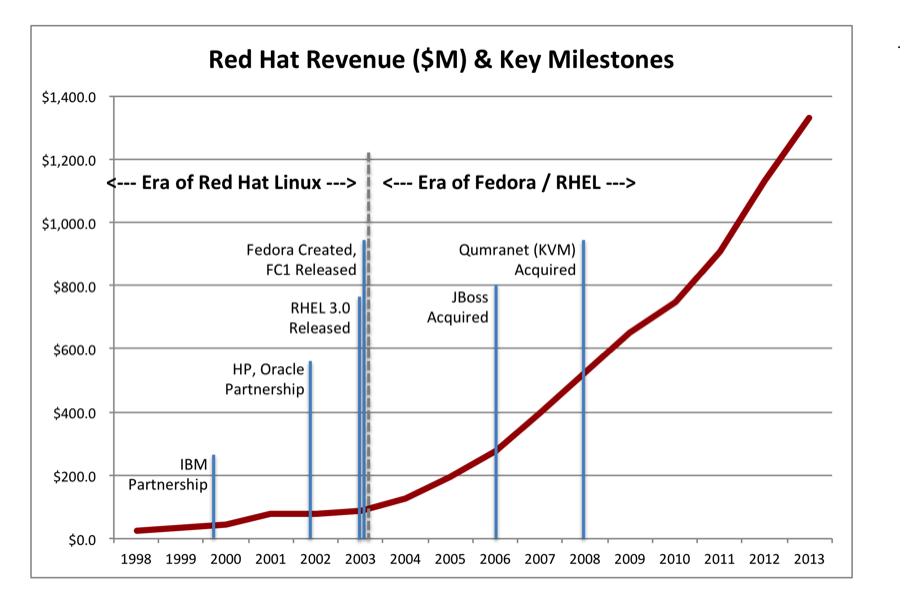
[](https://books.google.com/ngrams/graph?content=Open+Source+*&year_start=1985&year_end=2008&corpus=15&smoothing=0&share=&direct_url=t2;,Open%20Source%20*;,c0;,s0;;Open%20Source%20projects;,c0;;Open%20Source%20Software;,c0;;Open%20Source%20software;,c0;;Open%20Source%20Initiative;,c0;;Open%20Source%20Definition;,c0;;Open%20Source%20and;,c0;;Open%20Source%20movement;,c0;;Open%20Source%20Development;,c0;;Open%20Source%20community;,c0;;Open%20Source%20Intelligence;,c0)

Here are some stats based on D. Riehle’s work “The Total Growth of Open Source”. Hope some of it may be used to our infographics.

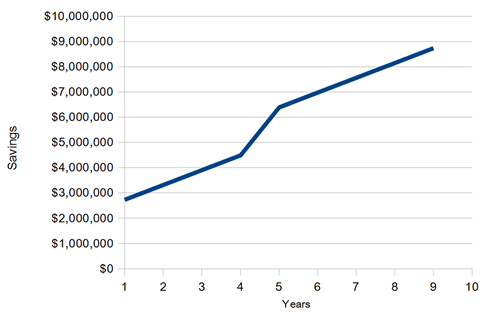
<http://dirkriehle.com/2008/03/14/the-total-growth-of-open-source/>

|  |  |  |
| --- | --- | --- |
| Year | Approx. # of Projects | Total Source Lines of Code (SLoC) |
| 1995 | 7 | 750,000 |
| 1996 | 13 | 1,500,000 |
| 1997 | 24 | 3,000,000 |
| 1998 | 43 | 5,800,000 |
| 1999 | 78 | 11,000,000 |
| 2000 | 143 | 22,000,000 |
| 2001 | 260 | 43,000,000 |
| 2002 | 473 | 83,000,000 |
| 2003 | 861 | 160,000,000 |
| 2004 | 1566 | 315,000,000 |
| 2005 | 2851 | 610,000,000 |
| 2006 | 5188 | 1,200,000,000 |
| 2007 (extrapolated) | 9441 | 2,300,000,000 |
| 2008  (extrapolated) | 17183 | 4,500,000,000 |
| 2009  (extrapolated) | 31272 | 8,800,000,000 |
| 2010  (extrapolated) | 56912 | 17,000,000,000 |
| 2011  (extrapolated) | 103577 | 33,200,000,000 |
| 2012  (extrapolated) | 188502 | 65,000,000,000 |
| 2013  (extrapolated) | 343062 | 126,000,000,000 |

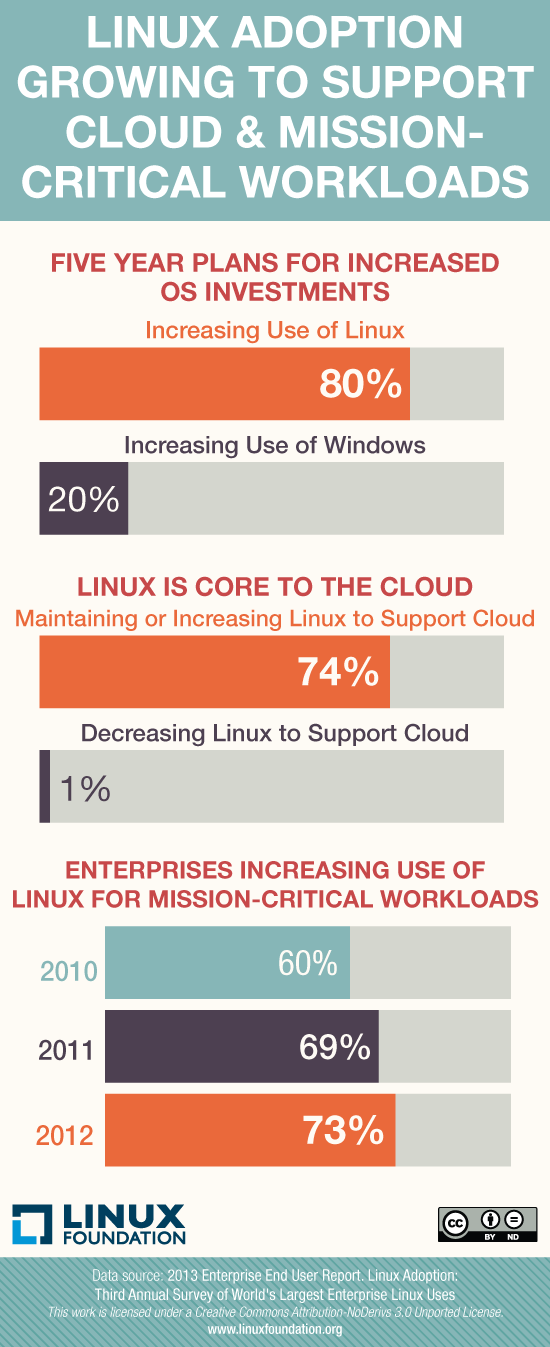
To use if Red Hat is a sponsor



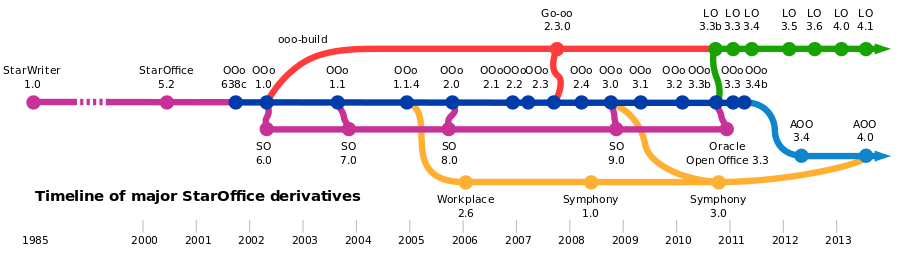
<http://timreview.ca/article/408>



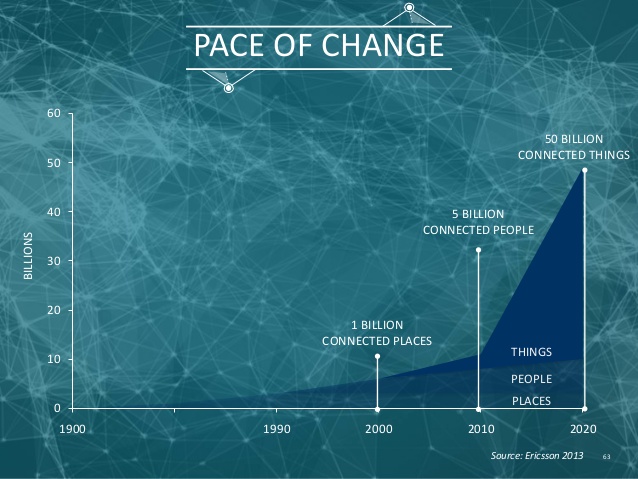
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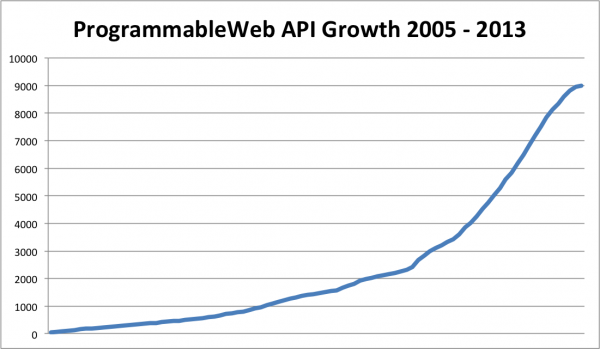


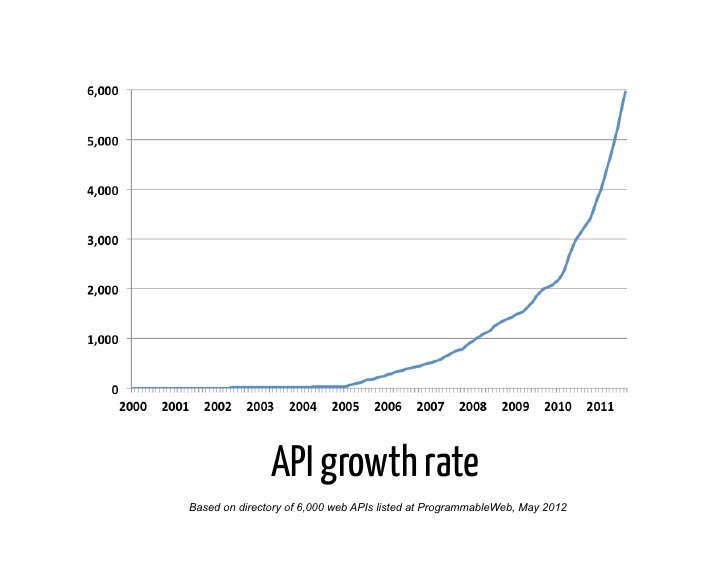
OpenOffice, LibreOffice, Apache OpenOffice timelines

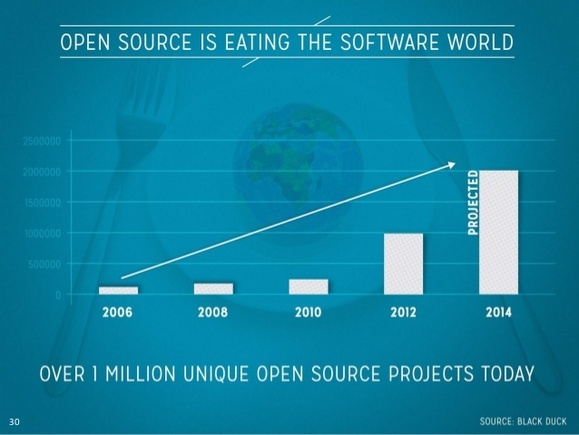


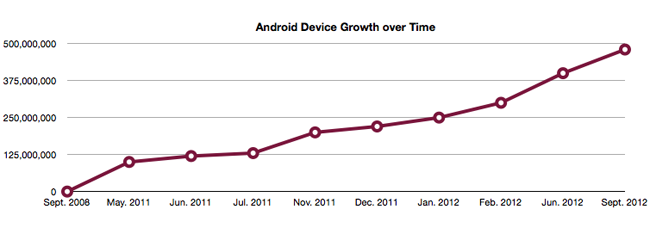
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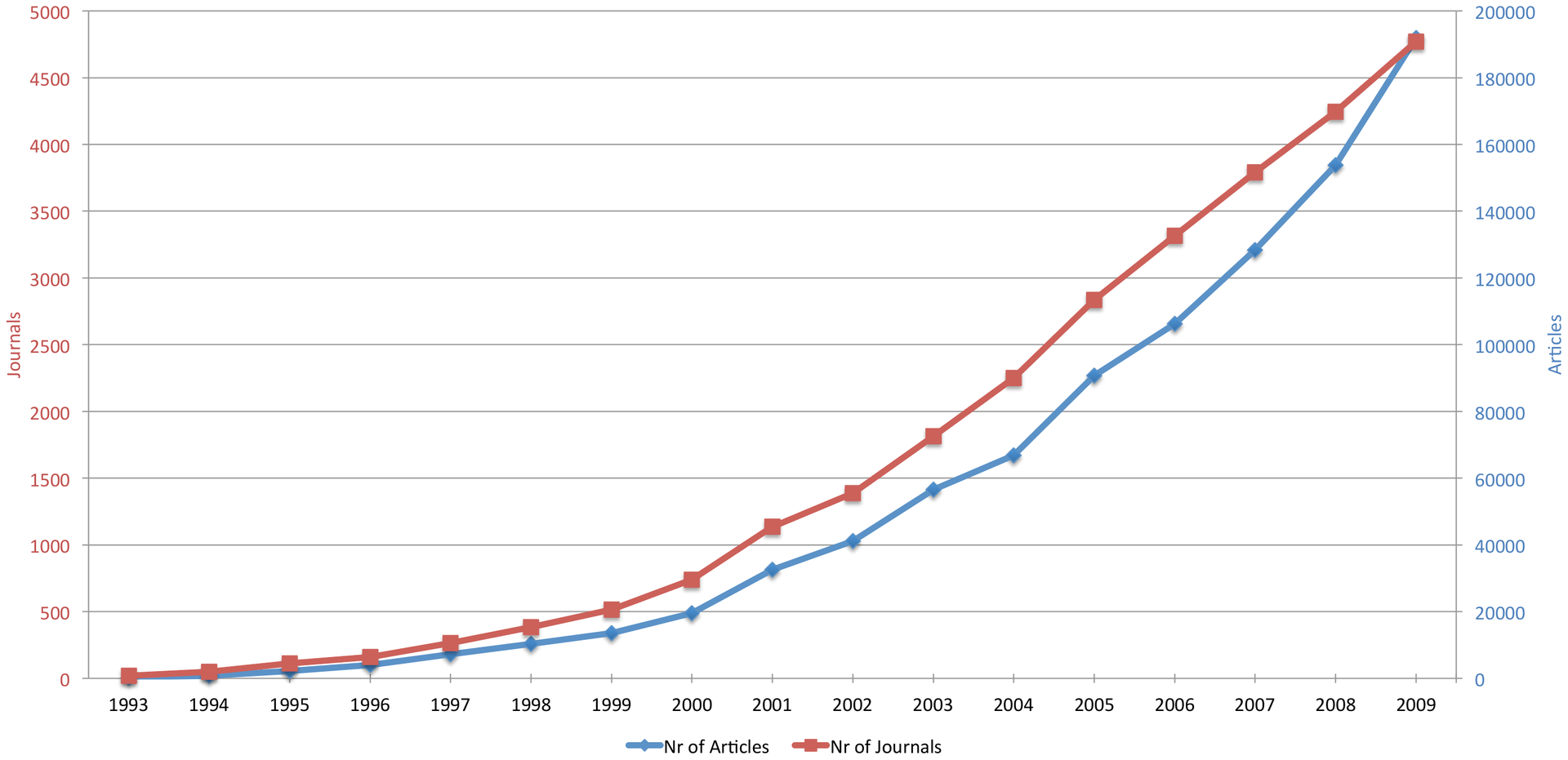




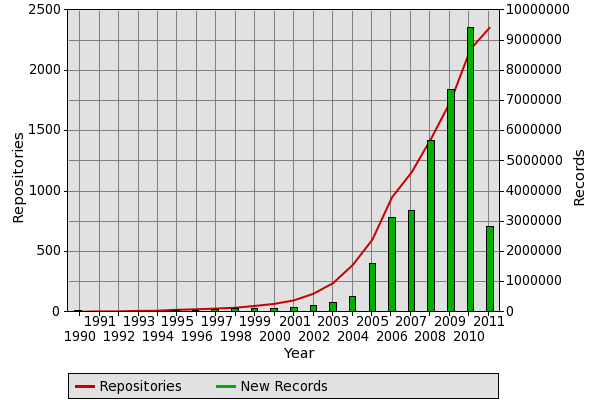




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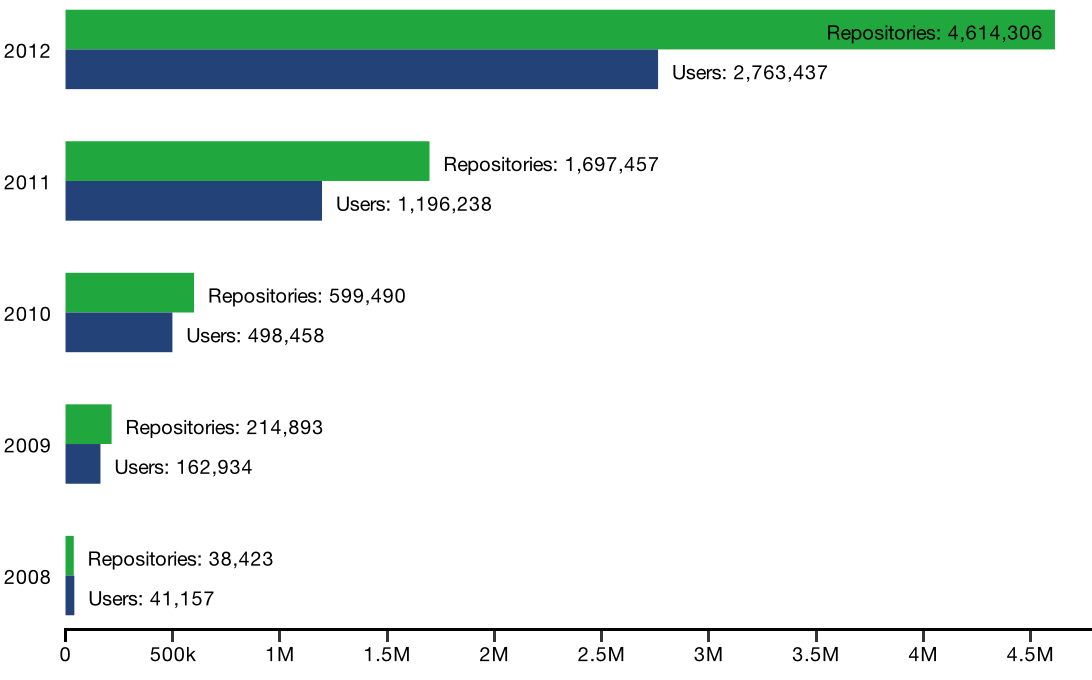
<http://commons.wikimedia.org/wiki/File:Roar1aug2011.png> the following chart requires attribution (see link at left)



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| **[Google Books](https://books.google.com/ngrams)** | Ngram Viewer |

[](https://books.google.com/ngrams/graph?content=open+source+*&year_start=1985&year_end=2008&corpus=15&smoothing=0&share=&direct_url=t2;,open%20source%20*;,c0;,s0;;open%20source%20software;,c0;;open%20source%20projects;,c0;;open%20source%20and;,c0;;open%20source%20project;,c0;;open%20source%20community;,c0;;open%20source%20movement;,c0;;open%20source%20development;,c0;;open%20source%20code;,c0;;open%20source%20license;,c0;;open%20source%20licenses;,c0)

<https://camo.githubusercontent.com/181dbba4b8ad0bd192847b153428402868c5ddcc/68747470733a2f2f662e636c6f75642e6769746875622e636f6d2f6173736574732f343539302f32323833362f39303263643231652d346131352d313165322d393738312d3936313230616431623732662e706e67>

…per email from Cathy

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 |
| 10% |  |  |  | 75% |  |  |  |  |  | 95% |
| open-source software technology in their mission-critical IT portfolios per Gartner <http://www.gartner.com/document/2811931?ref=solrAll&refval=157705681&qid=b407239f1f2b26c9952d5f9d7aa315d0> | | | | | | | |  |  |  |

SLoC