

CONTRIBUTING TO MADAGASCAR

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ASEG Workshop





“Run a program as you wish, for any purpose you wish, not limited to any narrowly defined application.”

“Help yourself by improving the program (which requires access to source code).”

“Help your neighbor by sharing a copy of the program with them.”

“Help community by sharing the improved copy at large.”

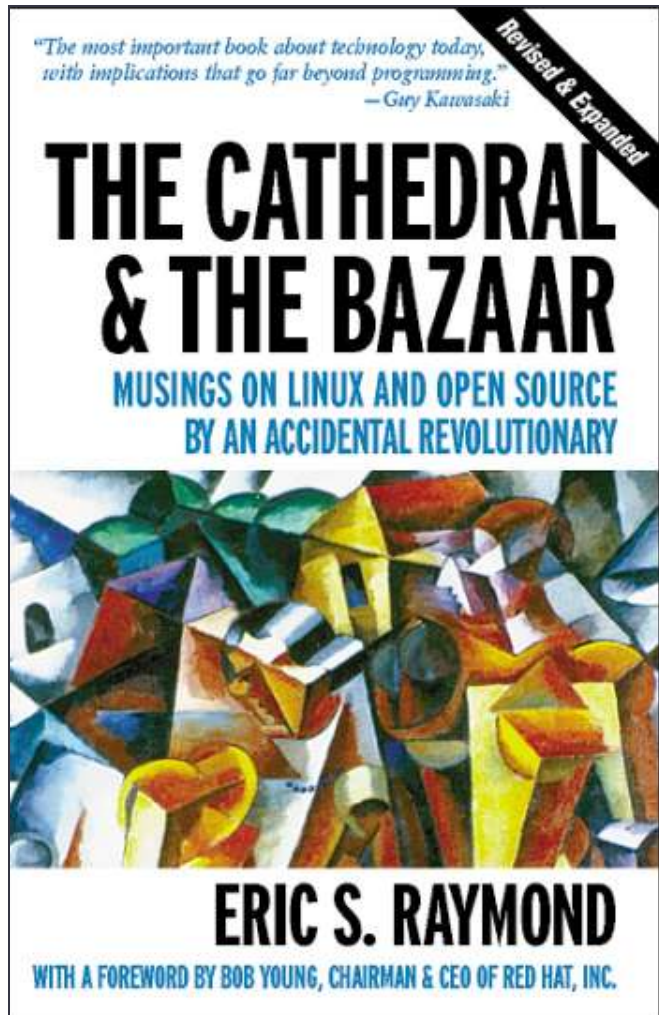
“Unquestionably one of the great seminal figures of the hacker culture.”
—Eric Raymond, open source evangelist and author of *The Cathedral and the Bazaar*

FREE AS IN FREEDOM

**RICHARD STALLMAN'S
CRUSADE FOR FREE SOFTWARE**



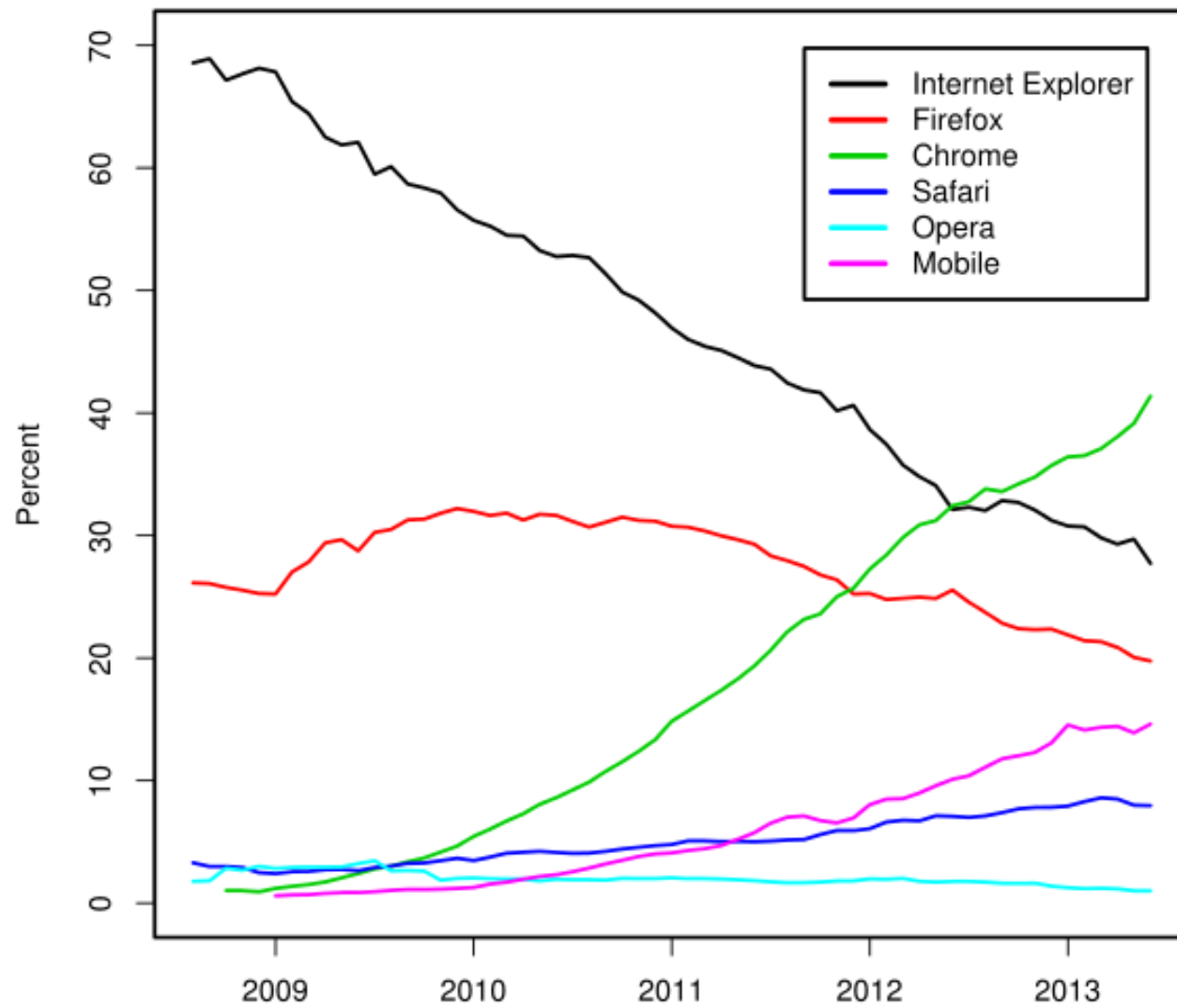
SAM WILLIAMS



“Given a large enough beta-tester and co-developer base, almost every problem will be characterized quickly and the fix obvious to someone.”

"Given enough eyeballs, all bugs are shallow."

Usage share of web browsers

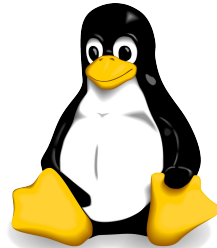


Year
Source: StatCounter

Free Software Examples

- **Linux kernel**

- GPL, 1991, Unix



- **GIMP**

- GPL, 1996, Photoshop



- **R project**

- GPL, 1993, S



- **Sage**

- GPL, 2005, MATLAB/Mathematica



- **Madagascar**

- GPL, 2006, SEPlib

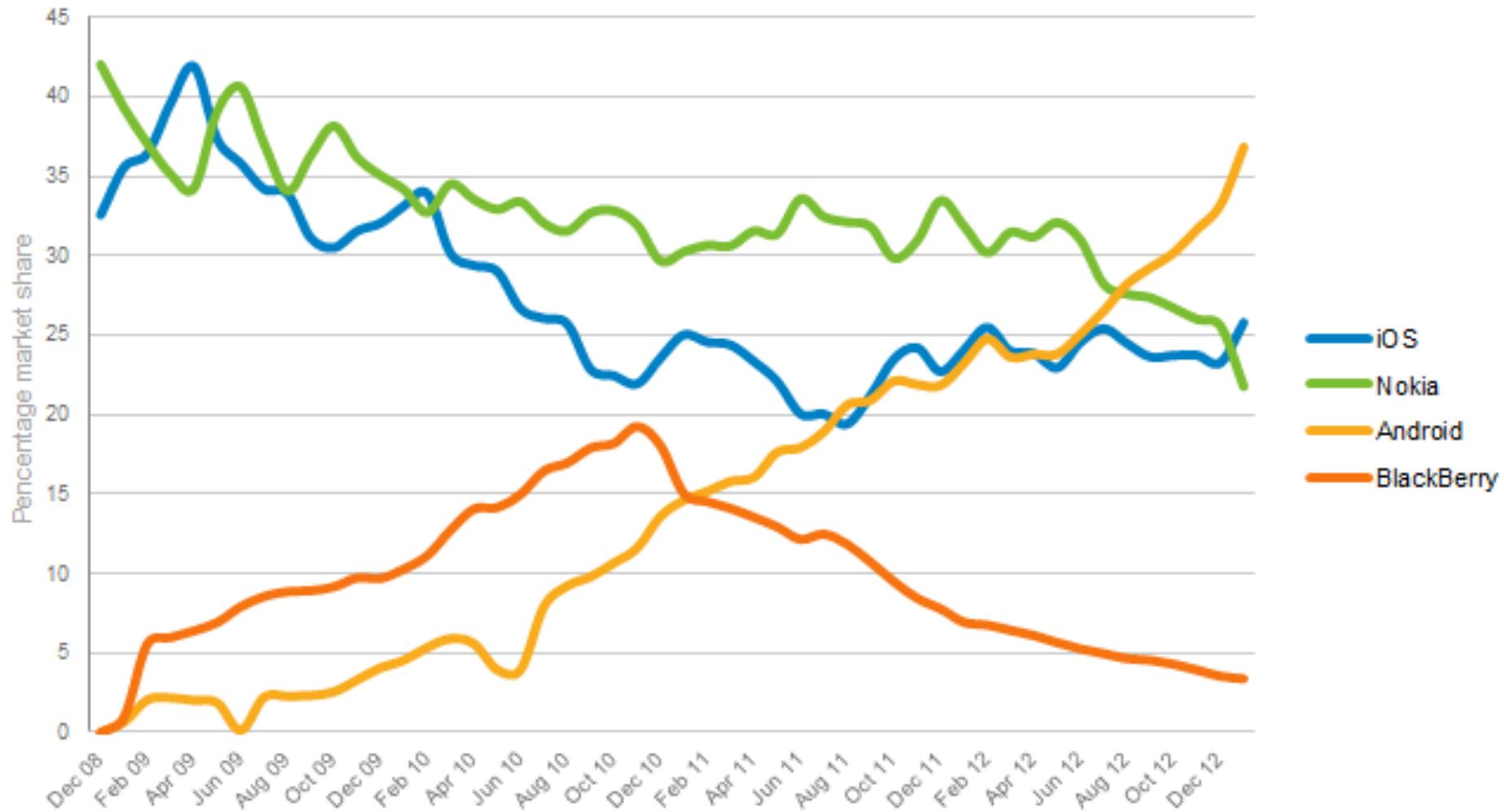


GPL License

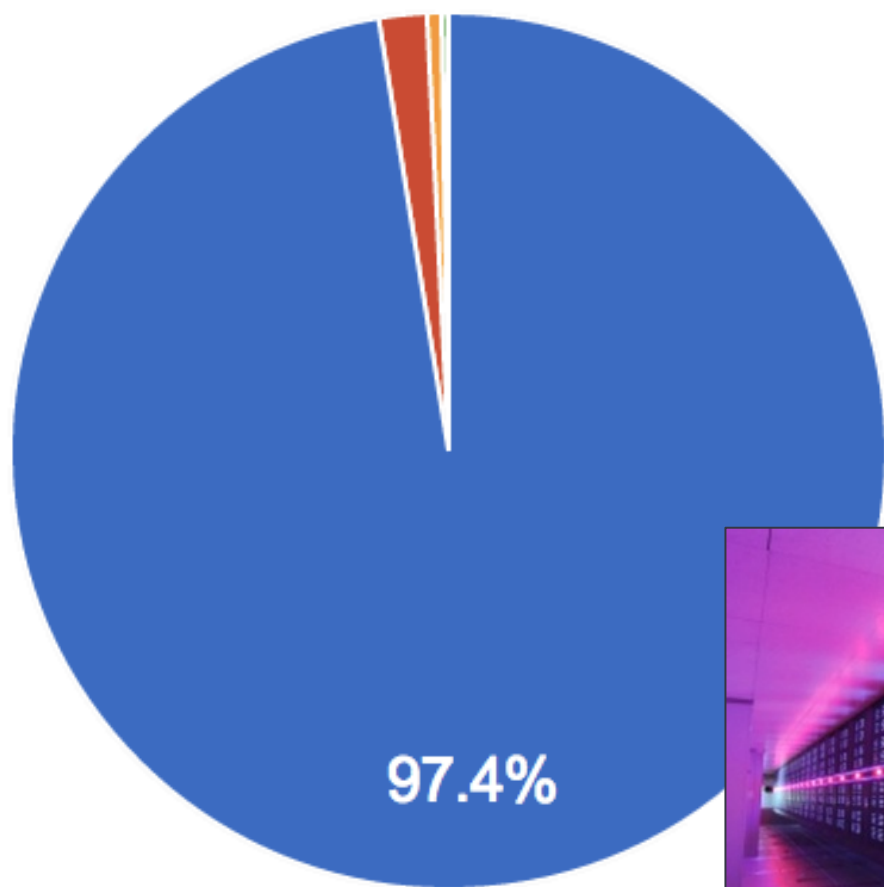
- “Using the GNU GPL will require that all the released improved versions be free software. This means you can avoid the risk of having to compete with a proprietary modified version of your own work.”
<http://www.gnu.org/licenses/gpl-faq.html>



Worldwide Mobile OS Market Share



Operating system Family Performance Share



- Linux
- Unix
- Mixed
- Windows
- Other

<http://www.top500.org/>



How to Add Your Own Programs

“Help yourself by improving the program...”

- Create a directory for yourself or your group under **\$RSFSRC/user**. Put your programs there.
- Create **SConstruct** file in your directory by following examples from other **user** directories.
- [http://www.ahay.org/wiki/
Adding_new_programs_to_Madagascar](http://www.ahay.org/wiki/Adding_new_programs_to_Madagascar)

How to Contribute Your Programs

“Help community by sharing the improved copy...”

- [Register at SourceForge](#). Send your SourceForge user name to one of the administrators.
- Upload your files to the repository using [svn add](#) and [svn commit](#).
- Add reproducible examples of using your program under **\$RSFSRC/book**.
- http://www.ahay.org/wiki/Contributing_new_programs_to_Madagascar

Communication Tools



- Wiki page <http://www.ahay.org/>
- Blog <http://www.ahay.org/rsflog/>
- Subversion repository (79 developers)
 - <https://sourceforge.net/p/rsf/code/HEAD/tree/trunk/>
- Mailing lists (337 subscribers)
 - <https://lists.sourceforge.net/lists/listinfo/rsf-user>
 - <https://lists.sourceforge.net/lists/listinfo/rsf-devel>
- SourceForge trackers
 - <https://sourceforge.net/p/rsf/bugs/>
 - <https://sourceforge.net/p/rsf/feature-requests/>
- LinkedIn group (329 members)
 - <http://www.linkedin.com/e/vgh/1847746>



2014 Madagascar School?

- **Poland**
- **Russia**
- **Netherlands**
- **South Korea**
- **Brazil**



2014 Working Workshop?



- **Parallel Computing**
- **Field Data Processing**
- **Seismic Interpretation**
- **Documentation**
- **C++/Java/Python/Fortran**

Conclusions

- **Recognize Madagascar project as a community effort**
- **Understand freedoms provided by open source**
- **Use online communication tools to participate in the development and to connect with other users**
- **Attend schools and working workshops**

