CONTRIBUTING TO MADAGASCAR

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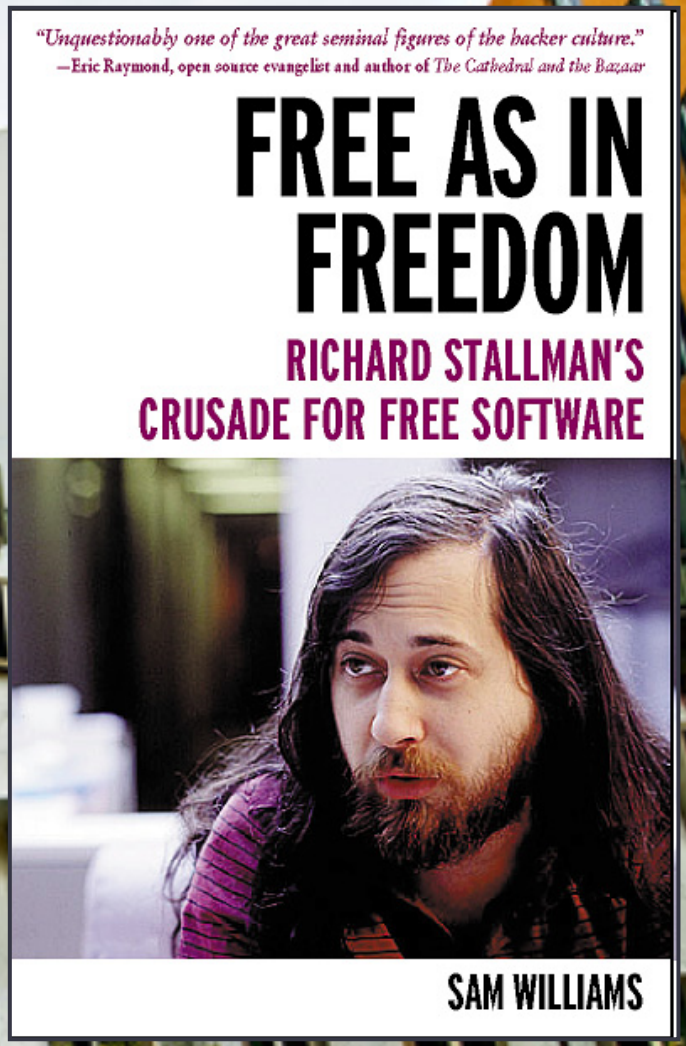
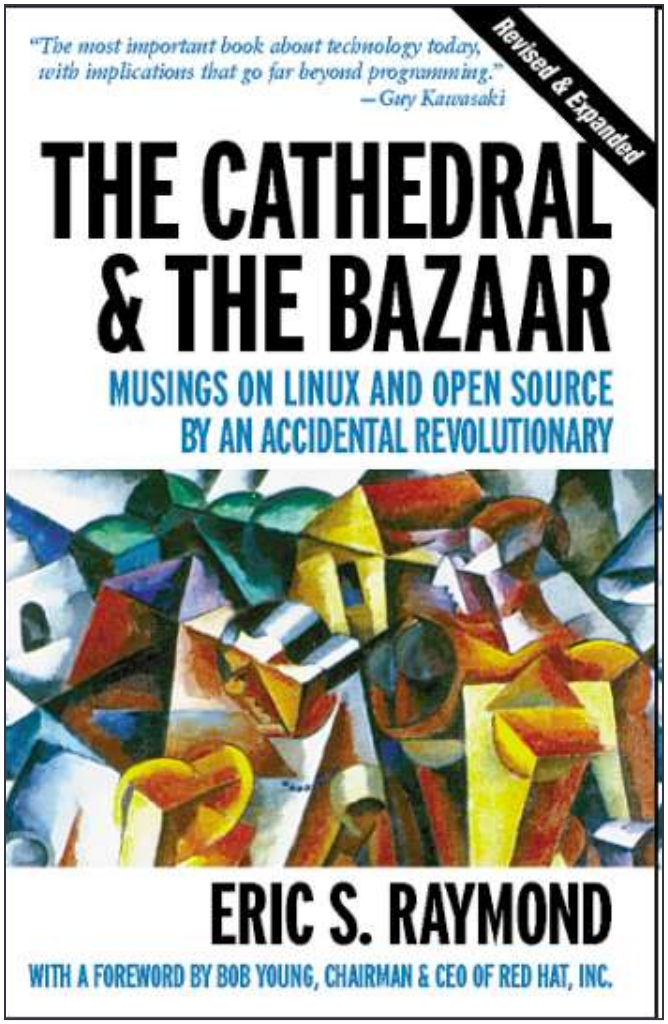
“Run a program as you wish, for any purpose you wish, not limited to any narrowly defined application.”

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

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

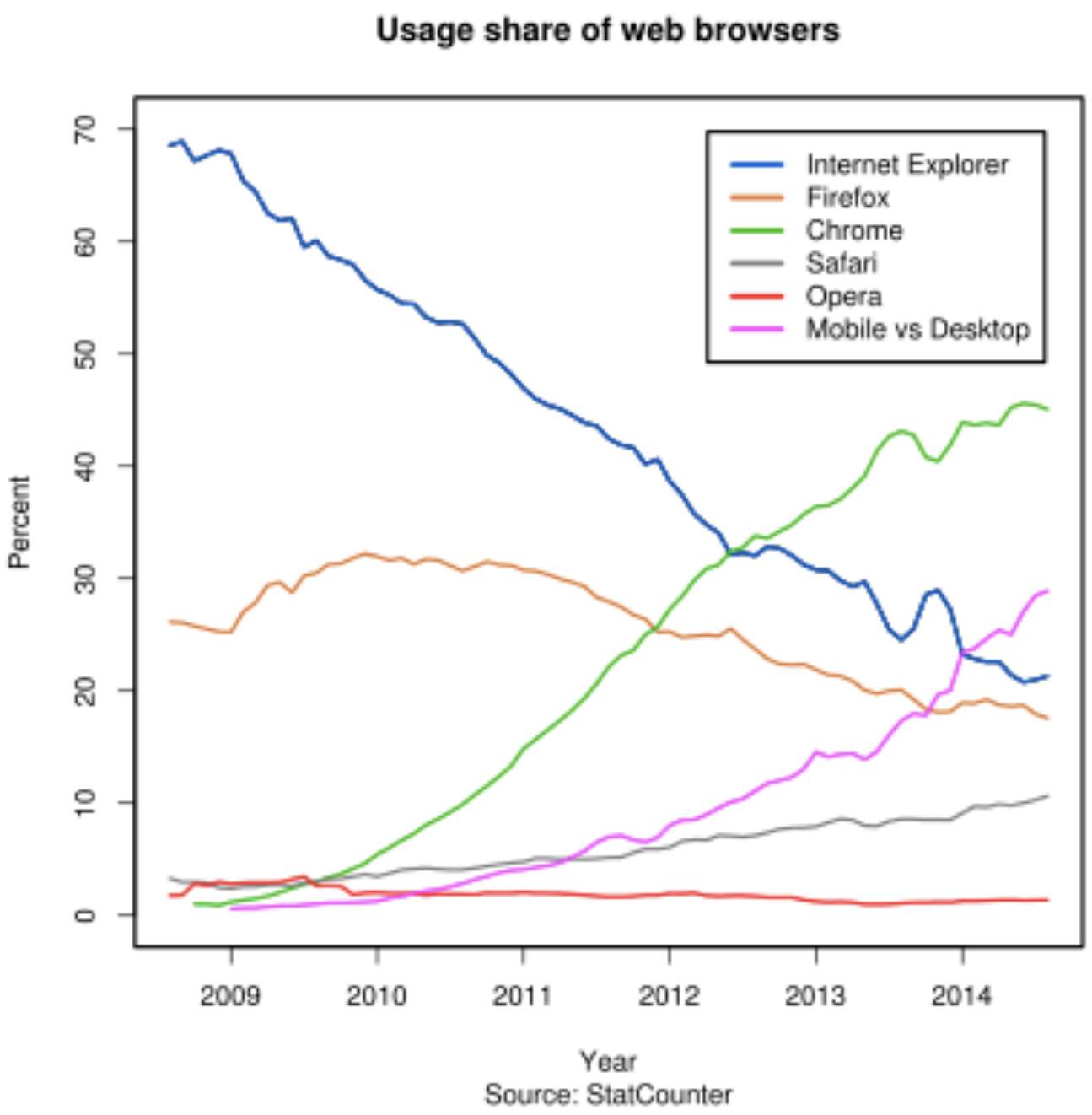
“Help community by sharing the improved copy at large.“





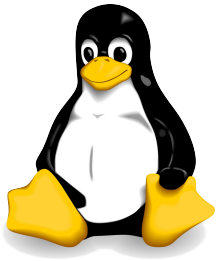
“Given a large enough beta-tester and co-developer base, almost every problem will be characterized quickly and the fix obvious to someone.”

"Given enough eyeballs, all bugs are shallow."


Usage share of web browsers
Internet Explorer
Firefox
Chrome
Safari
Opera
Mobile vs Desktop
Percent
0
10
20
30
40
50
60
70
2009
2010
2011
2012
2013
2014
Year
Source: StatCounter

Free Software Examples

- **Linux kernel**
  - GPL, 1991, Unix



- **GIMP**
  - GPL, 1996, Photoshop

- **R project**
  - GPL, 1993, S

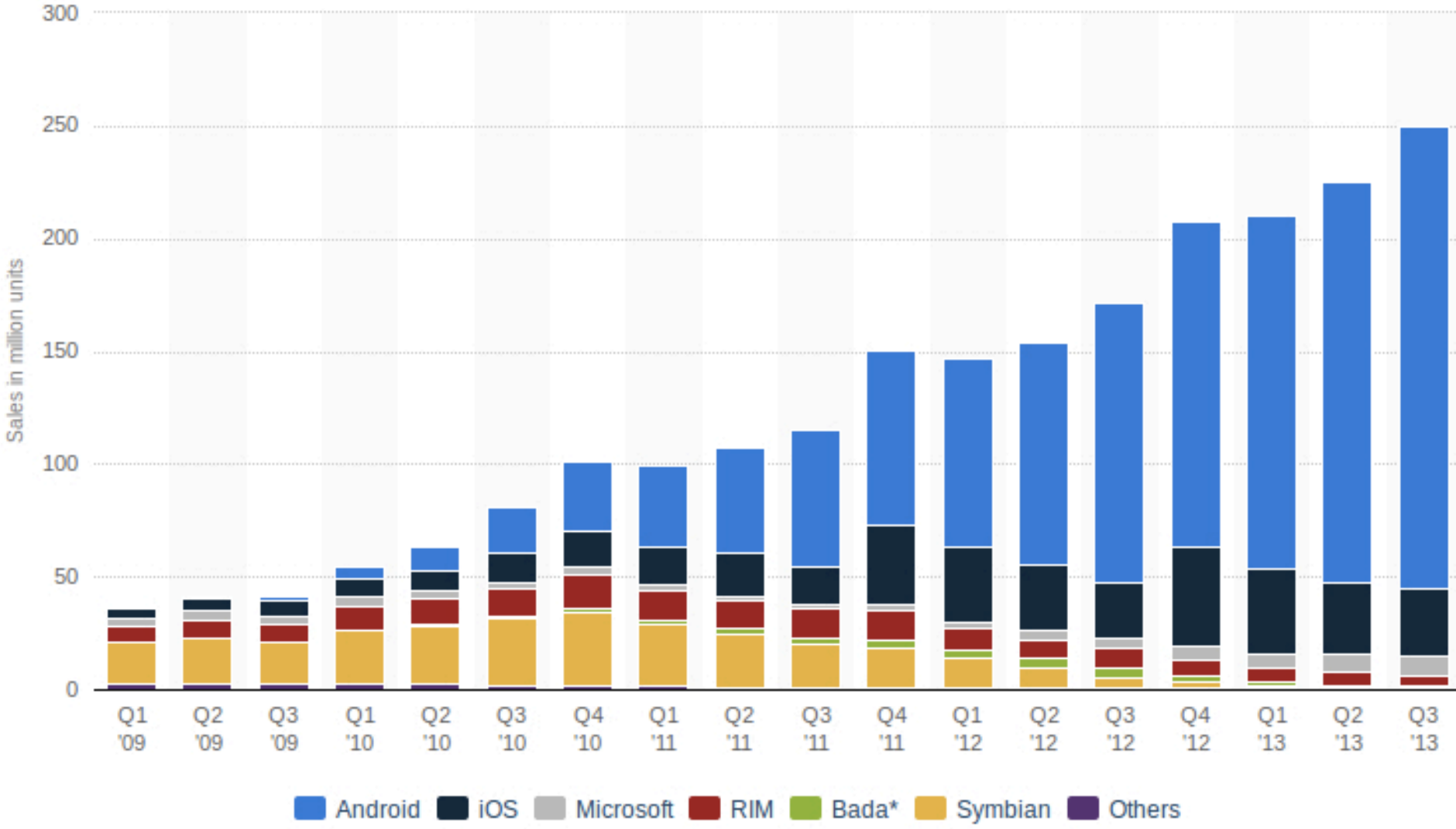
- **Sage**
  - GPL, 2005, MATLAB/Mathematica

- **Madagascar**
  - GPL, 2006, SEPlib

GPL License

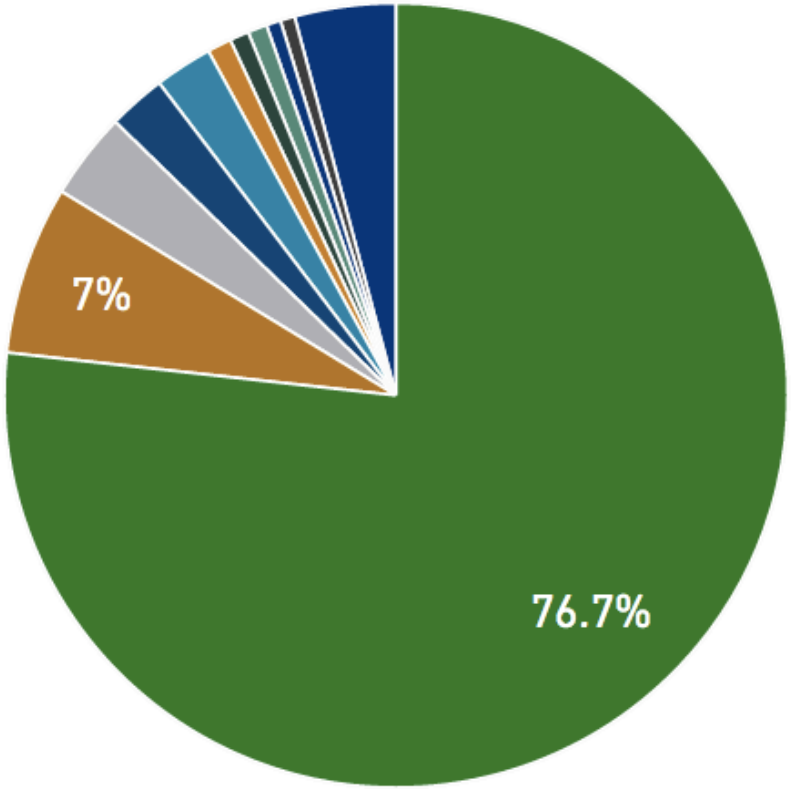
- “Using the GNU GPL will require that all the released improved versions be free software. This means you can avoid the risk of having to compete with a proprietary modified version of your own work.” http://www.gnu.org/licenses/gpl-faq.html

Global smartphone sales to end users from 1st quarter 2009 to 3rd quarter 2013, by operating system (in million units)



http://sourcedigit.com/1913-smartphone-os-global-market-share-data-2014/

Operating System System Share



- Linux
- Cray Linux Environment
- SUSE Linux Enterprise Ser...
- AIX
- CentOS
- Redhat Enterprise Linux 6.4
- Bullx Linux
- RHEL 6.2
- bullx SCS
- bullx SUperCOmputer Suit...
- Others

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

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 (89 developers)
  - https://sourceforge.net/p/rsf/code/HEAD/tree/trunk/
- Mailing lists (378 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 (453 members)
  - http://www.linkedin.com/e/vgh/1847746

2016 Madagascar School?

- Poland
- Austria
- South Korea
- Brazil

2015 Working Workshop?

- 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