



Access Without Empowerment

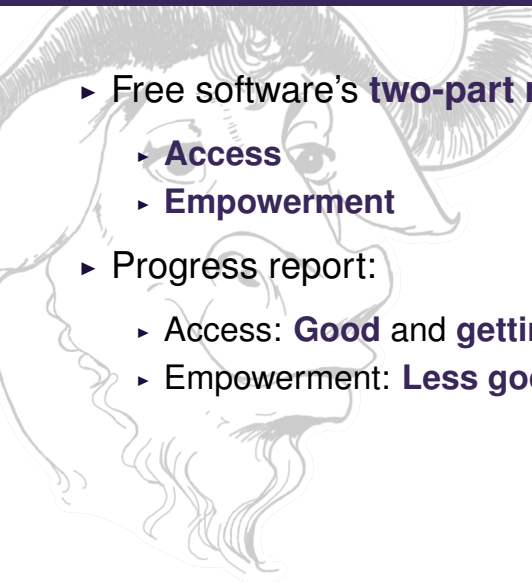
Benjamin Mako Hill


Swatantra '17

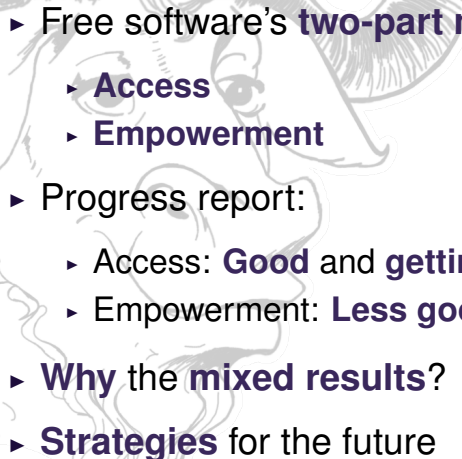
December 21, 2017

Overview

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- ▶ Free software's **two-part mission**:
 - ▶ **Access**
 - ▶ **Empowerment**

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 - ▶ Progress report:
 - ▶ Access: **Good** and **getting better**
 - ▶ Empowerment: **Less good** and **not improving**

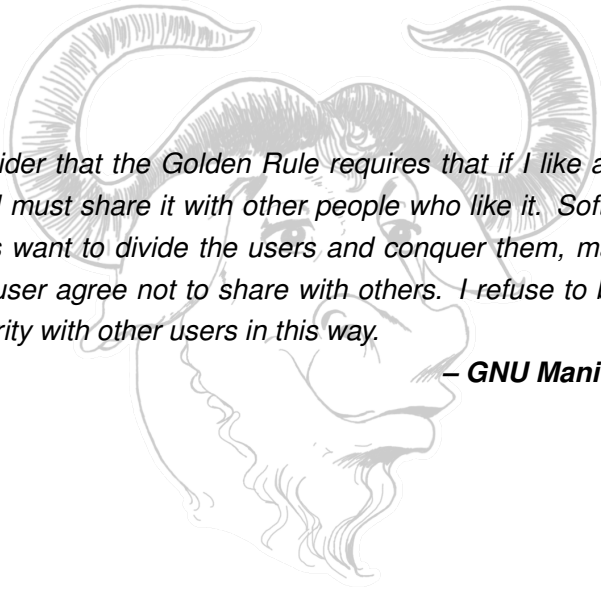
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 - ▶ **Why** the **mixed results**?

- 
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 - ▶ **Why** the **mixed results**?
 - ▶ **Strategies** for the future

The Free Software Definition

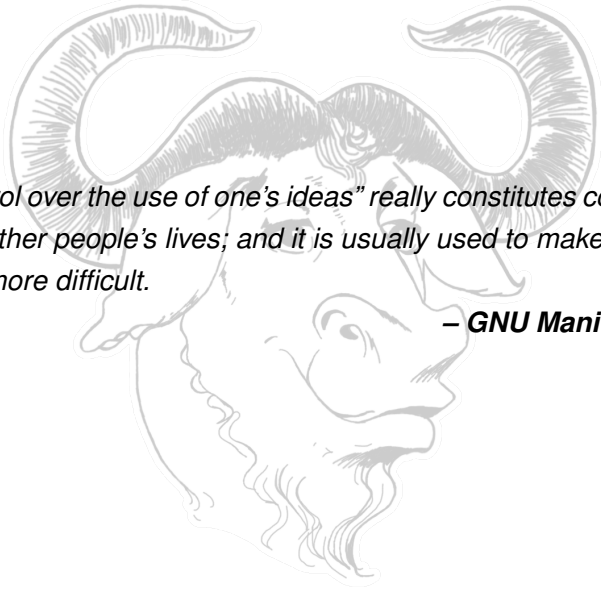
The Free Software Definition:

- ▶ The freedom to **run the program, for any purpose**
- ▶ The freedom to **study how the program works**, and **adapt it** to your needs
- ▶ The freedom to **redistribute copies** so you can help your neighbor
- ▶ The freedom to **improve the program**, and **release your improvements** to the public, so that the whole community benefits



I consider that the Golden Rule requires that if I like a program I must share it with other people who like it. Software sellers want to divide the users and conquer them, making each user agree not to share with others. I refuse to break solidarity with other users in this way.

– GNU Manifesto

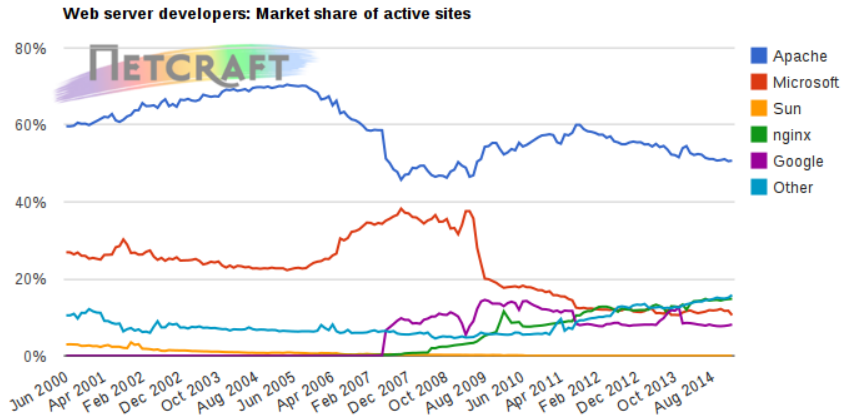


“Control over the use of one’s ideas” really constitutes control over other people’s lives; and it is usually used to make their lives more difficult.

– GNU Manifesto

Progress Report: **Access**

Market Share in Web Servers

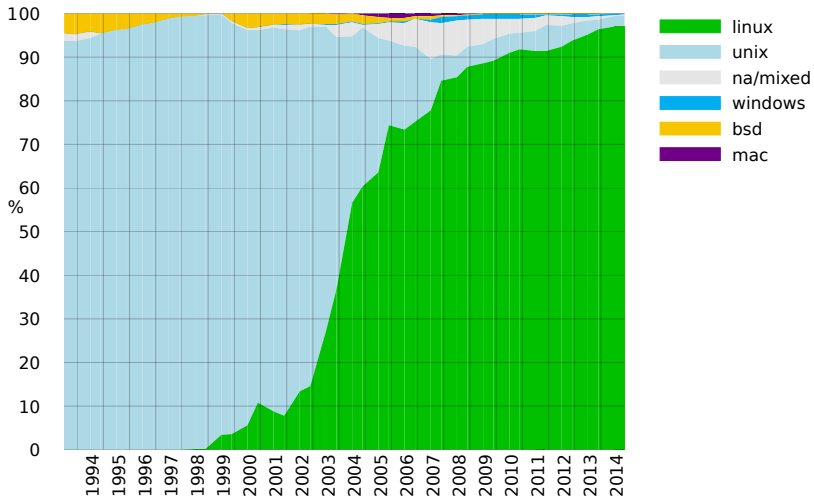


Usage Share in Operating Systems

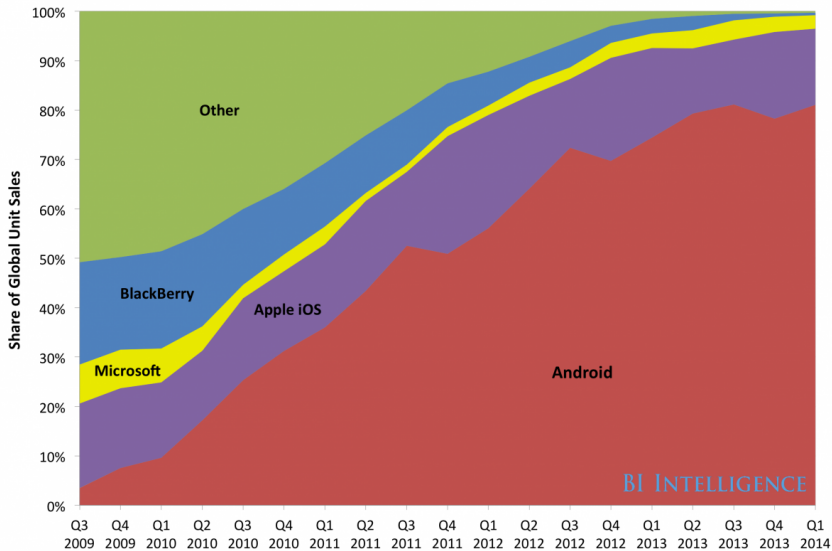
Category	Source	Date	Linux based	Mac and other Unix	In-house	Microsoft	Other
Desktop, laptop, netbook	Net Applications ^[58]	Dec 2014	1.34% (Ubuntu, etc.)	7.21% (OS X)		91.45% (7, 8, XP, Vista)	
Smartphone, tablet, handheld game console	StatCounter Global Stats ^[59]	Dec 2014	53.86% (Android)	31.10% (iOS)		1.87% (WP8, RT)	13.17%
Server (web)	W3Techs ^[60]	Sep 2014	36.72% (Debian, Ubuntu, CentOS, RHEL, Gentoo)	30.18% (FreeBSD, HP-UX, Solaris, OS X Server)		33.10% (W2K3, W2K8, W2K12)	
Supercomputer	TOP500 ^[57]	Nov 2014	97.0% (Custom)	2.4% (AIX)		0.2%	0.2%
Mainframe	Gartner ^[54]	Dec 2008	28% (SLES, RHEL)	72% (z/OS) UNIX System Services			
Gaming console	Nintendo, Sony, Microsoft, Ouya ^[61]	Jun 2013	0% (SteamOS, Android)	29.6% (PS3)	40.9% (Wii)	29.5% (Xbox)	
Embedded	UBM Electronics ^[62]	Mar 2012	29.44% (Android, Other)	4.29% (QNX)	13.5%	11.65% (WCE 7)	41.1%
Real time	NewTechPress ^[63]	Nov 2011	19.3% (Android)		20.1%	35.8% (XPE, WCE)	24.8%

[https://en.wikipedia.org/wiki/Usage_share_of_operating_systems]

Market Share in the Top 500 Super Computers

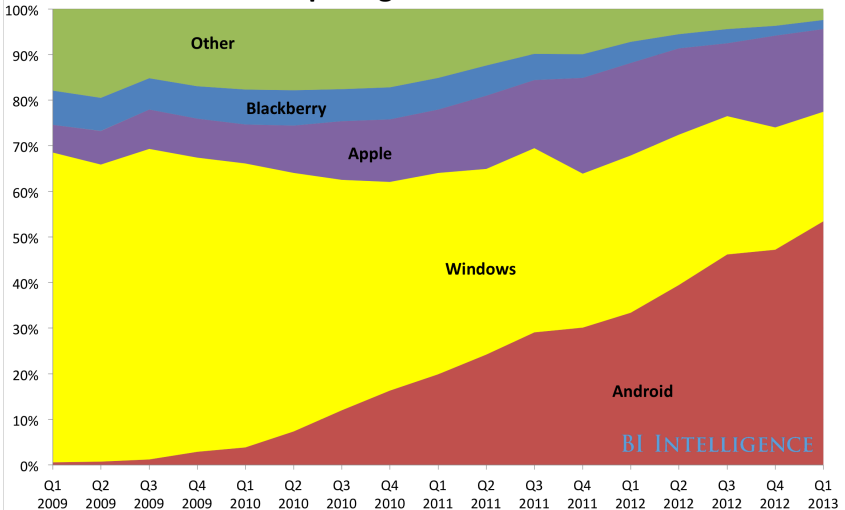


Global Smartphone Market Share By Platform

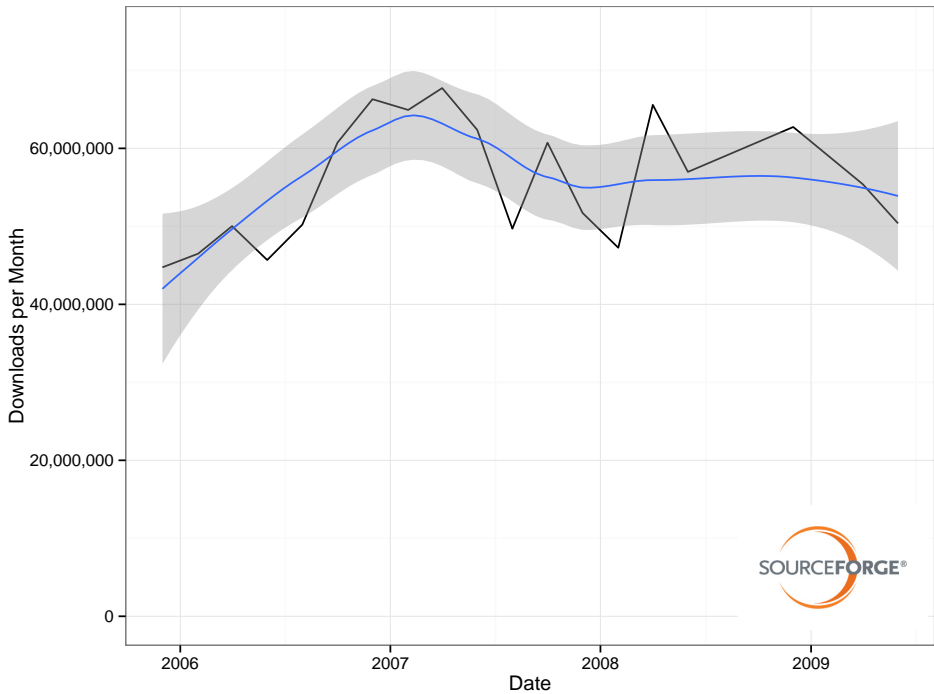


Source: IDC, Strategy Analytics

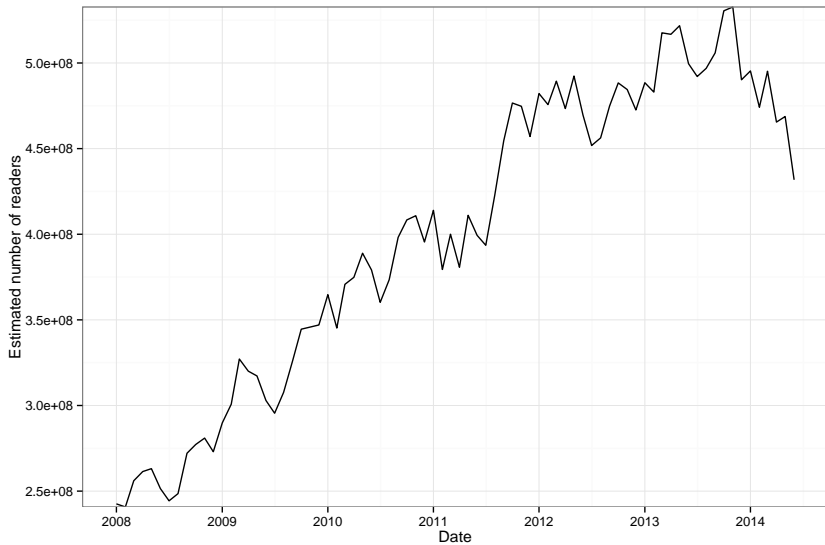
Global Computing Platform Market Share



Source: Gartner, IDC, Strategy Analytics, BI Intelligence estimates, and company filings



Wikipedia :: Readers



Progress Report: **Empowerment**

Sum of Developers Across All Projects

300,000

200,000

100,000

0

2006

2007

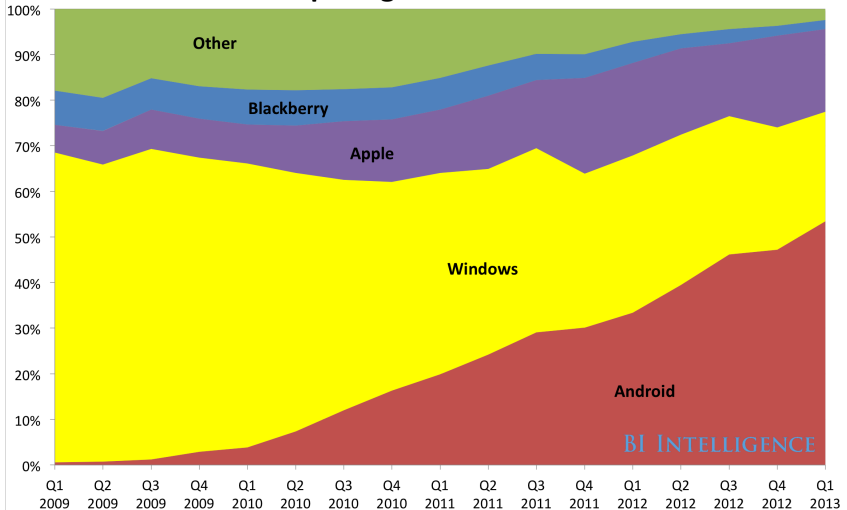
2008

2009

Date

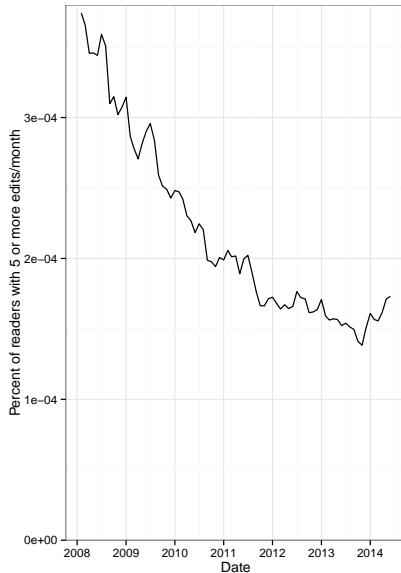
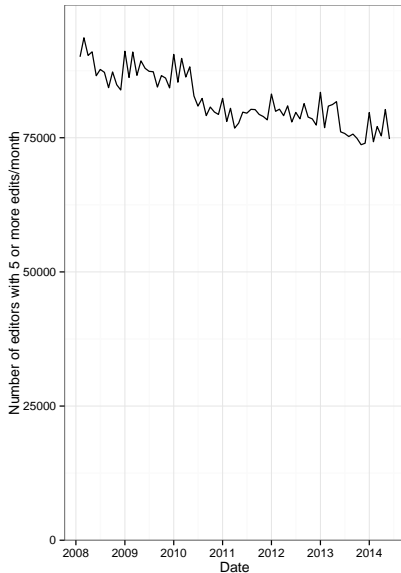


Global Computing Platform Market Share



Source: Gartner, IDC, Strategy Analytics, BI Intelligence estimates, and company filings

Wikipedia :: Proportion of Readers Who Contribute



**Why is empowerment
so much harder than
access?**

1. Access Always Comes Before Empowerment

Install Parties



Outreach and Advocacy





```
# apt-get update
Get:1 http://your.favorite.mirror sid Release.gpg [378B]
Get:2 http://your.favorite.mirror sid Release [79.6kB]
Get:3 http://your.favorite.mirror sid/main Packages [4514kB]
Get:4 http://your.favorite.mirror sid/main Sources [1280kB]
Fetched 5674kB in 11s (523kB/s)
Reading package lists... Done

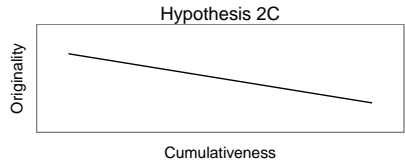
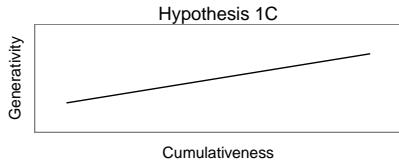
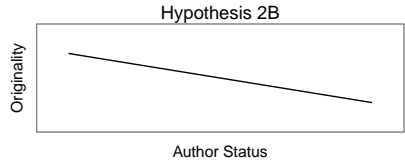
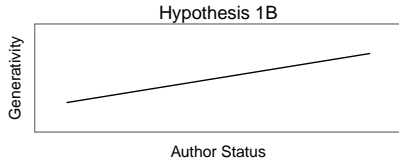
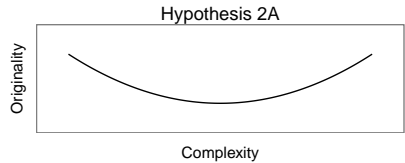
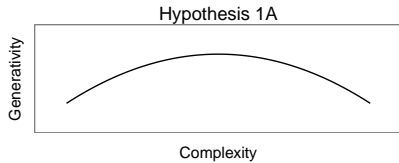
# apt-get install iceweasel
Reading package lists... Done
Building dependency tree... Done
Suggested packages:
  iceweasel-gnome-support latex-xft-fonts xprint mozplugger
The following NEW packages will be installed:
  iceweasel
0 upgraded, 1 newly installed, 0 to remove and 3 not upgraded.
Need to get 8933kB of archives.
After unpacking 27.2MB of additional disk space will be used.
Get:1 http://your.favorite.mirror sid/main iceweasel 2.0+dfsg-1 [8933kB]
Fetched 8933kB in 9s (975kB/s)
Selecting previously deselected package iceweasel.
(Reading database ... 68428 files and directories currently installed.)
Unpacking iceweasel (from .../iceweasel_2.0+dfsg-1_powerpc.deb) ...
Setting up iceweasel (2.0+dfsg-1) ...
Please restart any running Iceweasels, or you will experience problems.

# _
```

Worried about seeing broken web sites because you would be running "Iceweasel" and not "Firefox"?
[Read this.](#)

2. Social Tradeoffs

The Remixing Dilemma



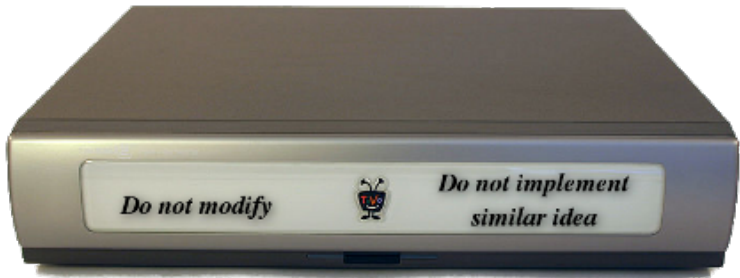
The Remixing Dilemma Takeaways

Projects are more likely to be remixed when they are:

- ▶ **Moderately complicated**
- ▶ Created by **prominent creators**
- ▶ **Cumulative**

But, there is a **tradeoff** in that each of these factors is also associated with **less original** forms of remixing behavior.

3. Technological Compromises



Tivoization





WIKIPEDIA zero

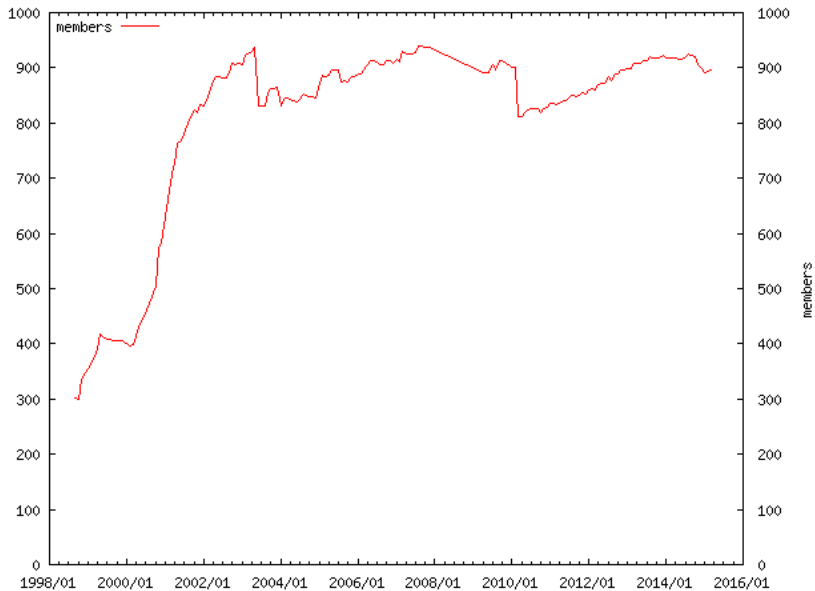
4. Second Order Digital Divides

Skills Gaps



5. Project Lifecycles

debian-private mailing list traffic and/or members



**What should we
do?**

1. Nothing

1. Nothing

2. Compromise

Access *or* Empowerment

3. Remove Systematic Barriers to Participation



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(Appropriate contact info for reports will be added here when we get closer to the 2015 event.)

The FSF is dedicated to providing a harassment-free LibrePlanet experience for everyone.

- We do not tolerate harassment of conference participants in any form. Offensive or graphic sexual language and imagery is not appropriate for any conference venue, including talks.
- Conference participants violating these rules may be sanctioned or expelled from the conference at the discretion of the conference organizers.

Harassment includes offensive verbal comments related to gender, sexual orientation, disability, physical appearance, body size, race, religion, sexual images in public spaces, deliberate intimidation, stalking, following, harassing photography or recording, sustained disruption of talks or other events, inappropriate physical contact, and unwelcome sexual attention.

- Participants asked to stop any harassing behavior are expected to comply immediately.
- If a participant engages in harassing behavior, the conference organizers may take any action they deem appropriate, including warning the offender or expulsion from the conference.
- If you are being harassed, notice that someone else is being harassed, or have any other concerns, please contact a member of [FSF staff](#) immediately. FSF staff are available in every conference track and at the information desk throughout the conference.
- Conference staff will be happy to help participants contact hotel/venue security or local law enforcement, provide escorts, or otherwise assist those experiencing harassment to feel safe for the duration of the conference.

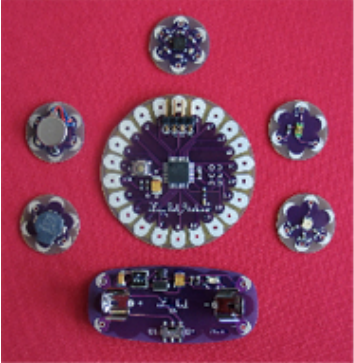
We value your attendance.

This policy is based on several other policies, including the OLF anti-harassment policy, written by Esther Filderman and Beth Lynn Eicher, and the Con Anti-Harassment Project. Mary Gardiner, Valerie Aurora, Sarah Smith, and Donna Benjamin generalized the policies and added supporting material. Many members of LinuxChix, Geek Feminism and other groups contributed to this work.



debian
women

5. Broaden Appeal of Engagement



5. Education

Computing Data Science Workshops



OpenHatch





We can do better.



Actividad

Proyecto

Guardar a/abrir de

acción 1

cp

poner
en
caja2

-140

repetir

3

fijar

x

y

caja 2

ángulo

arco

radio

caja 2

poner

en

caja2

+

10

fijar

tamaño

12

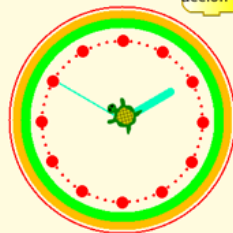
fijar

color

+

color

15



acción 2

sp

fijar

x

y

0

2

cp

sp

poner

en

caja1

5

repetir

60

adelante

100

acción 1

acción 2

cp

si

caja 1

<

5

entonces

si no

fijar

tamaño

13

poner

en

caja1

0

fijar

tamaño

2

ángulo

arco

radio

360

sp

atrás

100

poner

en

caja1

+

caja 1

1

derecha

6

esperar

1



View source: 'Turtle Art Activity' Turtle Art Activity at FOSSed



```
1 #Copyright (c) 2007, Playful Invention Company
2 #Copyright (c) 2008-9, Walter Bender
3
4 #Permission is hereby granted, free of charge, to any person obtaining a copy
5 #of this software and associated documentation files (the "Software"), to deal
6 #in the Software without restriction, including without limitation the rights
7 #to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
8 #copies of the Software, and to permit persons to whom the Software is
9 #furnished to do so, subject to the following conditions:
10
11 #The above copyright notice and this permission notice shall be included in
12 #all copies or substantial portions of the Software.
13
14 #THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
15 #IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
16 #FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
17 #AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
18 #LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM,
19 #OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
20 #THE SOFTWARE.
21
22 import tawindow
23 import talogo
24
25 import pygtk
26 pygtk.require('2.0')
27 import gtk
28 import gobject
29
30 import logging
31 _logger = logging.getLogger('turtleart-activity')
32
33 import sugar
34 from sugar.activity import activity
35 from sugar.graphics.toolbutton import ToolButton
36 from sugar.graphics.menuitem import MenuItem
37 from sugar.datastore import datastore
38
39 import telepathy
40 from dbus.service import method, signal
41 from dbus.gobject_service import ExportedGObject
42 from sugar.presence import presenceservice
43 from sugar.presence.tubeconn import TubeConnection
```



