Open Source – What is it?

- The freedom to use the software for any purpose
- The freedom to study how the software works and to adapt it to your needs
- The freedom to redistribute copies of the software
- The freedom to share the changes you make

Open Source

1) Free Redistribution
2)Source Code
3)Derived Works
4)Integrity of The Author's Source Code
5)No Discrimination Against Persons or Groups
6)No Discrimination Against Fields of Endeavor
7)Distribution of License
8)License Must Not Be Specific to a Product
9)License Must Not Restrict Other Software

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Licenses

- The Open Source Initiative (http://www.opensource.org)
  - BSD (Berkeley Software Distribution)
  - GPL (GNU General Public License)
  - Creative Commons

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The OS Process

- Who writes open source code?
- What do these people do?
- How do they collaborate
- How do they resolve disagreements and deal with conflict?

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Two Models

- Cathedral Model
- Open Source Model

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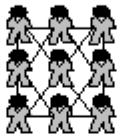
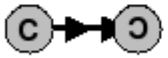
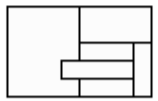
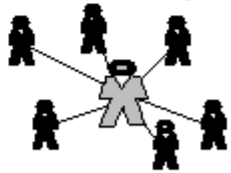
OPEN SOURCE PRINCIPLES

Intellectual property	Development paradigm	Resource model
Code should always be open - "Free speech, not free beer"	 Extensive involvement of user/developer community	Good ideas come from solving a problem or scratching an itch
"Copyleft"	"Release early, release often"	"The three obligations: to give, to receive, to reciprocate"
 "Use copyright to ensure copyleft"	 Modularize code	 Peer leadership - vision, engagement, code

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Impact

- Web servers
- E-mail servers
- Scripting languages
- DNS
- SSH
- Databases
- Browser
- OS - Internet
- Embedded and mobile platform

Reliability

- Percentage of the Top 50 Most Reliable Hosting Company sites that run on Windows: 18
- Percentage of the Top 50 Most Reliable Hosting Company sites that run on Linux: 50
- Percentage of the Top 5 Most Reliable Hosting Company sites that run on Linux: 80

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Adoption

- Apache's percentage market share among web servers in 10/2008: 50
- Linux percentage share of the smartphone market in Q2 2008: 7.3
- Linux adoption percentage at the 14 largest investments firms in 2008: 72

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Performance

- Desktop
- File servers (SAMBA)
- Databases
- Communication (Internet2 speed record)

Other

- Scalability - Used in 78% of the world's 500 fastest supercomputers
- Security – Need I say more :-)
- TCO

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Philosophy

- Freedom
- Flexibility
- License
- Ethics/Social
- Innovation
- Governments/International

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For Fun

- GtkPod
- Songbird
- Amorak
- GIMP
- Tomboy
- Beagle
- Democracy TV

Linux

- Ability to create specialized distributions
- Live CD
  - great for hacking
  - checking out computers
  - security

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Linux Distributions

- Ubuntu
- Dynebolic
- Gparted
- Xen
- Geexbox
- DSL

References

- Open Sources 2.0 – O' Reilley Press
- http://www.netcraft.com
- http://www.dwheeler.com/oss_fs_why.html
- http://www.distrowatch.com

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