

More than Open Source

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What's Inside Open Source

- Hello World
 - Players, Minors, Audiences
 - Game Rule
- Wanna Play?
 - Development Model
 - Licensing Model
 - Business Model
- Conclusion and Recommended Readings

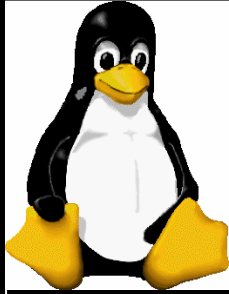


Player #1

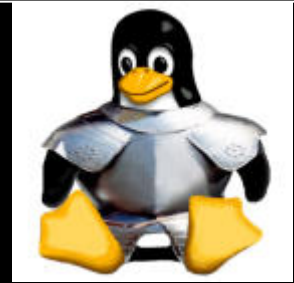
GNU (GNU is Not Unix)



- Free Software (**total freedom**)
 - "Free speech or free beer?"
 - (hmm...so free has nothing to do with price)
 - Theoretically...Free to run, to modify, to redistribute
 - Practically...Free from dependencies (copyrighted with **copyleft**)
 - Why? The effects of baby-milk powder on poor infants (3,000~4,000 "such" infants die per day)



Player #2 TUX



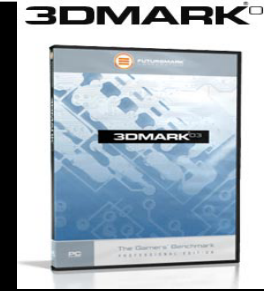
- Open Source (**fear of freedom?**)
 - "Open speech or free speech?"
 - (hmm...so open has nothing to do with freedom)
 - Theoretically...Anyone can get copies of its source code files
 - Practically...looser than free software (art of licensing)
 - including semi-free programs such as Xv and even some proprietary programs like Qt
 - Why? **Escape from freedom**

Minors...

- Non-Copylefted Free Software (**X11**)
 - So-far-so-free
 - Its copies and modifications might not be free
- Public Domain Software
 - Not copyrighted with a license (**top**)
 - Source code might not be free
- Semi-Free Software (**PGP**)
 - Free for "non-profit purposes"



Audiences



- Freeware (**Adobe Acrobat Reader®**)
 - Free redistribution
 - No modification and source code
- Shareware (**3DMark®03**)
 - Prohibited redistribution (license fee required)
 - No modification and source code
- Proprietary Software (**Windows®**)
 - No redistribution, modification and source code

Game Rule

- License, please.
 - Freedom is ensured or restricted by its license
 - Compatibility allows legal merge of code
 - Two GPL software → compatible
 - Two "different" copyleft software → incompatible

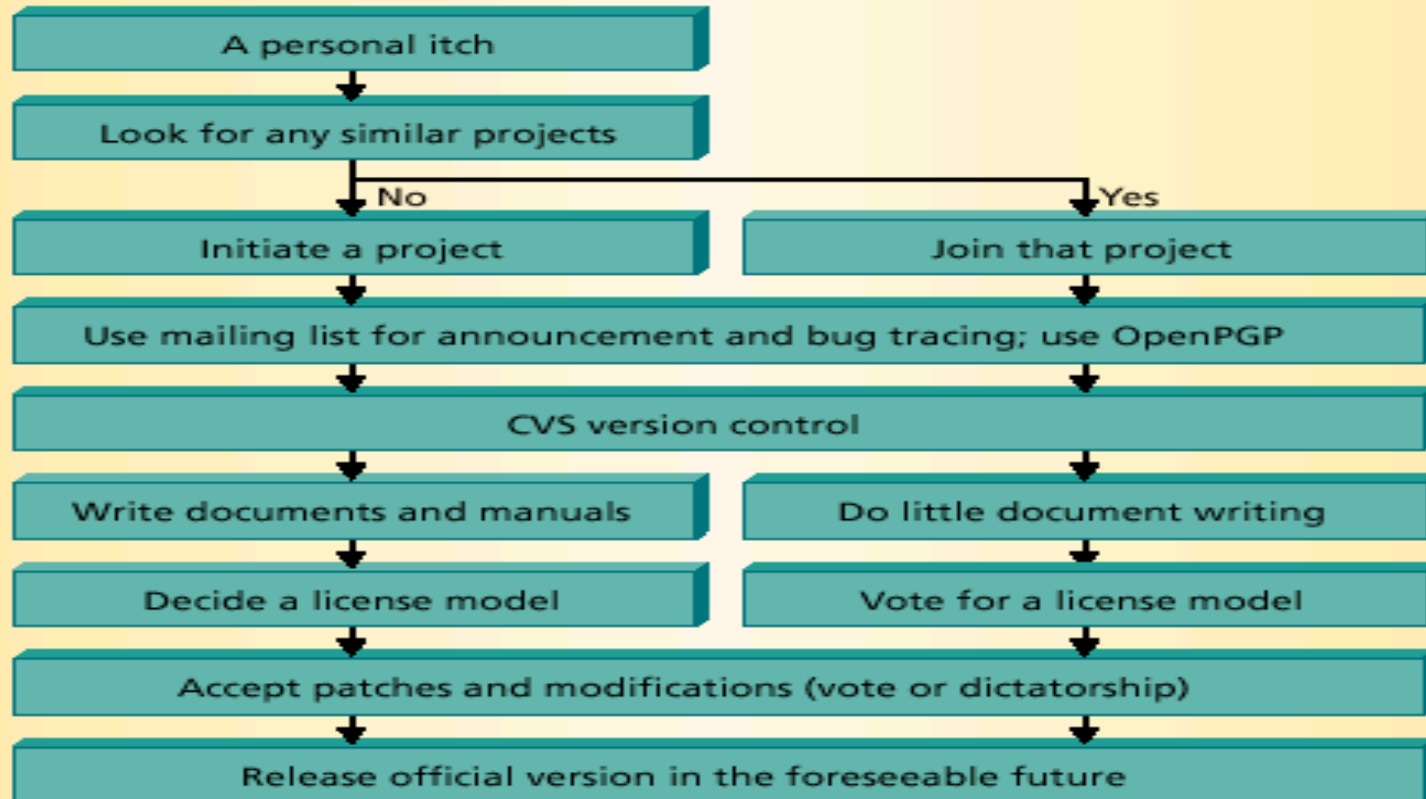
Wanna Play?



Source: <http://www.g-n-u.de>

Development Model (Part 1)

It all begins as a Personal Itch



Development Model (Part 2)

Collaboration shall never ends...

- Standard Unix "diff" and "patch"
 - By Larry Wall
 - "diff" takes the differences of two files to *generate patches* for later "patch"
 - Easy to use, but hard to track project *history*.
- RCS (Revision Control System)
 - By Walter Tichy
 - Single machine "*lock-modify-unlock*" style of development
- CVS (Concurrent Version System)
 - By Dick Grune, Brian Berliner, and Jim Kingdon
 - Networked "*copy-modify-merge*" style of development

Licensing Model

Table 1. Open-source licensing models.

Licensing model	Free software	Open source	Copyleft	GPL-compatible	Examples
GPL	Yes	Yes	Yes	Yes	CVS
LGPL	Yes	Yes	Partial	Yes	GNU C library
X11	Yes	Yes	No	Yes	XFree86
Python	Yes	Yes	No	Yes	Python
BSD	Yes	Yes	No	No	Apache, Sendmail
MPL/NPL	Yes	Yes	No	No	Mozilla
QPL	Yes	Yes	No	No	Qt
Sun Industry Standard Source License (SISSL)	Yes	Yes	No	No	Commercial-version StarOffice
Artistic License (AL)	No	Yes	No	No	Perl
Apple Public Source License (APSL)	No	Yes	No	No	Darwin

Business Model (Part 1)

Different Approaches in Approaching Money

■ Low margin

- User Feedback
 - Voluntary or Taxed
- Boxed CDROM Solution
 - Bias against downloaded package

■ High margin

- Private Licensing
- Charged Services
 - RedHat once charge USD\$225 for installing Apache server or all-you-can-eat for USD\$55,000
- Gateway Solution
 - Add-on values

Business Model (Part 2)

Yet Facing New Requirements

- Pre-Open-Source Era
 - Product "specification"
 - Product "features"
- Post-Open-Source Era
 - Product "add-ons"
 - Product "performance"

Conclusion

More than Open Source

- Open your mind and vision
 - Learn to share
 - Able to diversify
- Avoid re-invent and idle
 - Save other people's time for solving new problems
 - The world keeps moving while you're asleep
- Teamwork works better

Recommended Readings

Must-Read In Open Source



- Richard M. Stallman (RMS)
 - The GNU Operating System and The Free Software Movement



- Eric S. Raymond (ESR)
 - The Cathedral and the Bazaar and The New Hackers Dictionary



- David A. Wheeler (secure programming)
 - Why Open Source Software / Free Software (OSS/FS)? Look at the numbers!

