Open Source Engagement

lwhsu (2020-2024, CC BY)

Open Source: What

- Open-Source Software != Free Software
 - https://opensource.org/osd
 - https://en.wikipedia.org/wiki/Open-source_software
- Freeware
- <-> Proprietary Software
- Public Domain

Open Source: Why

- Nowadays the information industry is heavily based on open source software
 - o as well as hardware
- Many benefits if you can leverage them
 - Excellent learning resource
 - Accumulate experience and reputation
 - o Fun

Freedom

- Right to have choices
- Open format

Open Source: Freedom

- 自由不是離開某套軟體、某種系統,而是找到自由
 - by 李士傑, Ptt FreeBSD Board entry screen
- https://lists.freebsd.org/pipermail/svn-src-head/2015-November/078440.html
 - Most of us do a lot of this work (FreeBSD) as volunteers. Even if some of us work on some of it for \${WORK} we work on other bits in our spare time for \$0 as well, so that's a lame cop out. Part of the reason we do this in our spare time is because it's a chance to do things "right", not just quick hacks to satisfy a business-deadline at \${WORK}

Things You Should Know Earlier

- Not always the best
- Sometimes it costs most
- Things suitable for others aren't always suitable for you.
- An open source project shouldn't be a place you can ask for anything for free, but should be a place you can work on anything freely.
- What is your primary goal?

Now and then, then and now

- Hacker Culture
- Commercial Strategy

Roles

- One of, some of, or all of:
 - o User
 - Contributor
 - Developer
- COSCU`P`
 - o Promoter

Tracking

- Release
 - Version number
 - Semantic Versioning (https://semver.org)
 - Announcements
 - Release Note, ChangeLog
 - Errata, Security Advisories
 - Preview (RC, BETA, ...)
- Development
 - Commit message in VCS (version control system)
 - Issue tracker
 - Mailing lists, Forums
- You need to test (verify) everything yourself

Legal

- License
 - Copyright, Copyleft, Copycenter
- Patent
- (CLA) Contributor License Agreement
- IANAL I Am Not A Lawyer
 - But knowing this will benefit (save?) you
 - Understand technical and non-technical details of what you use

Joining

- Contribute back & Evolve together
- Documenting
 - Also for the future you
- Reporting Issue
 - See how others solve issue
 - https://bugzilla.mozilla.org/page.cgi?id=bug-writing.html
- Discussing (Design)
- Patching (Implement)
- Code review
 - Atomic commits
 - Commit message

Community

- Asynchronized
 - Mailing list
 - o Forums
- (Semi-)Synchronized
 - o IRC, Martix, etc.
 - Instant message groups
 - (and many other modern options)
- Meetup
- Conference
- Online/offline note, article, books
- Commercial Support

How to Start?

- Never too early & Never too late
- From what you are using now
 - Open source alternatives
 - Development version
 - Build the project
 - Fix your issues
 - Customize for your needs
 - Junior tasks & Ideas list
 - O https://wiki.freebsd.org/JuniorJobs
 - O https://wiki.freebsd.org/IdeasPage
- Eat your own dogfood
- Mentoring programs

Working with others

- How To Ask Questions The Smart Way
 - http://www.catb.org/~esr/faqs/smart-questions.html
 - https://github.com/ryanhanwu/How-To-Ask-Questions-The-Smart-Way
- Maintenance & Management
 - Engineer & Manager
 - Community build up
 - Leadership
- Strength of Computer Science students
 - Back to the basics
 - Media Literacy
- Help others

Opportunities

- Internship
 - Open Culture Foundation (OCF)
 - https://blog.ocf.tw/2023/05/freebsd-intern.html
 - FreeBSD Foundation (summer intern, long-term internship)
 - Stipend provided.
 - Google Summer of Code
- Academic-ish publications
 - BSD Conferences (Next will be in Tokyo in March 2025)
 - FreeBSD Journal
- Academic conference / journal

-Ofun

- Open Source Enlightenment 開源之道
 - Allison Randal & Audrey Tang
 - https://www.slideshare.net/autang/open-source-enlightenment
 - https://gist.github.com/audreyt/2400315
 - https://www.youtube.com/watch?v=A6bBcvSyg0k

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