Logiciel Libre
Cours 0 — Presentation

Stefano Zacchiroli
zack@pps.univ-paris-diderot.fr

Laboratoire IRIF, Université Paris Diderot

2016–2017

Free Software

> **Definition (Free Software — *a* definition)**
>
> Free/Libre/Open Source Software (FLOSS) is computer software that gives users the freedom to run the software for any purpose as well as to study, modify, and distribute the original software and the adapted versions.

Free Software

> **Definition (Free Software — *a* definition)**
>
> Free/Libre/Open Source Software (FLOSS) is computer software that gives users the freedom to run the software for any purpose as well as to study, modify, and distribute the original software and the adapted versions.

How is that different from "usual" (proprietary) software?

Free Software

> ## Definition (Free Software — *a* definition)
> Free/Libre/Open Source Software (FLOSS) is computer software that gives users the freedom to run the software for any purpose as well as to study, modify, and distribute the original software and the adapted versions.

How is that different from "usual" (proprietary) software?

Let's look at a sample EULA :
`https://www.microsoft.com/en-us/Useterms/OEM/Windows/`
`10/UseTerms_OEM_Windows_10_English.htm` (July 2015)

Why bother? — as citizens

Lester picked up a screwdriver. "You see this? It's a tool. You can pick it up and you can unscrew stuff or screw stuff in. You can use the handle for a hammer. You can use the blade to open paint cans. You can throw it away, loan it out, or paint it purple and frame it." He thumped the printer. "This [Disney in a Box] thing is a tool, too, but it's not your tool. It belongs to someone else — Disney. It isn't interested in listening to you or obeying you. It doesn't want to give you more control over your life." [. . .]

"If you don't control your life, you're miserable. Think of the people who don't get to run their own lives : prisoners, reform-school kids, mental patients. There's something inherently awful about living like that. Autonomy makes us happy."

— *Cory Doctorow, Makers*
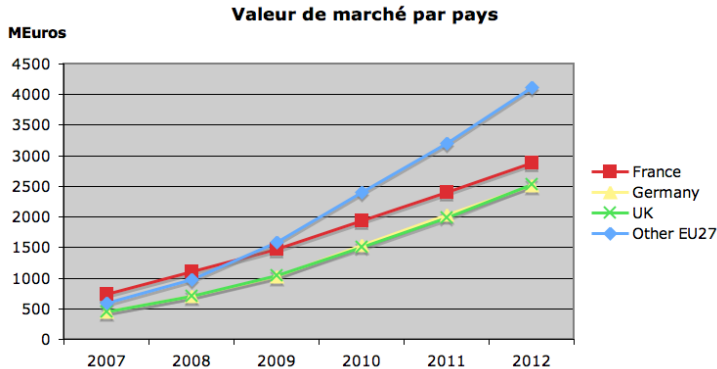`http://craphound.com/makers/`

Why bother? — as computer scientists

Free Software has *radically* changed the way software is :

- developed
- tested
- proven
- conceived
- marketed

- sold
- maintained
- taught
- deployed
- . . .

Why bother? — as IT professionals

- Free Software is everywhere
- participation in Free Software : a big plus on CVs
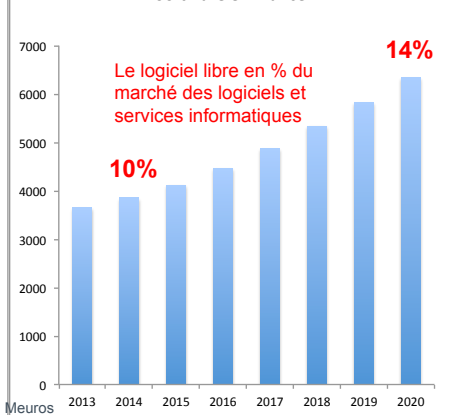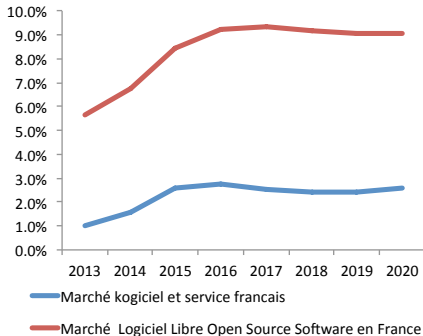- in France : ≈10% of IT GDP in 2014 (≈4 BEUR), constantly growing in spite of the crisis

Valeur de marché par pays

More info :
http://cnll.fr/static/pdf/pac-logiciels-libres-2015.pdf

Le marché du logiciel libre en France

Le marché Logiciel Libre Open Source Software en France

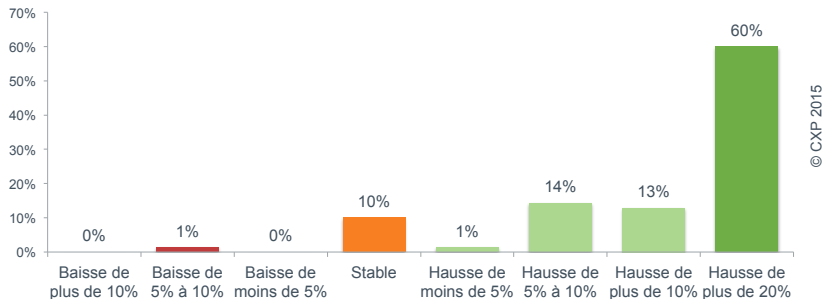Le logiciel libre en % du marché des logiciels et services informatiques

14%

10%

Meuros

Croissances comparées du marché du Logiciel Libre Open Spurce Software et du marché des logiciels et des services en France

Marché kogiciel et service francais

Marché Logiciel Libre Open Source Software en France

Un poids conséquent: 50 000 emplois

Une croissance globale à deux chiffres est attendue pour les revenus associés aux logiciels libres

Evolution du chiffre d'affaire Logiciel Libre/Open Source Software attendu d'ici à 2020 en France

© CXP 2015

Part en % des répondants, N=70

> **Commentaire PAC:** La croissance attendue des logiciels libres suit les tendances de marché les plus porteuses comme le Cloud computing (SaaS) et la transformation numérique. Ces deux axes sont des sujets porteurs pour les logiciels libres.

This course — topics

An introduction to Free Software topics, along the following axes

- history
- philosophy
- legal
- management / organization
- ~~technical~~

Feedback from others, with external speakers

- companies
- professionals
- organizations / non-profits

This course — organization

Teaching (CM) :

- $\frac{2}{3}$ lectures
- $\frac{1}{3}$ external speakers (usual time)

Practice (TD/TP) :

- 11 sessions, alternating TD and TP as needed

This course — evaluation

1. exam
2. TD
   - exercises
   - short essays on selected topics, including external speaker interventions
3. project (mandatory, not CC)
   - relevant *code* contribution to an existing, major Free Software project. Examples and guidance will be provided during TP
   - exclusion criteria :
       > ~~"*pour le cours de Logiciel Libre de M. Zacchiroli je dois contribuer un patch à votre projet, pourriez vous m'aider s'ils vous plaît ?*"~~
       ⇒ do the above, and your project note will be 0

Final note
- 1e session : 50% exam + 50% project
- 2e session : 50% exam + 50% project

This course — teaching material

http://upsilon.cc/zack/teaching/1617/loglib/

Some material reused/adapted—as permitted by license terms and/or authors directly—from :

- Máster Universitario en Software Libre, Universidad Rey Juan Carlos (Madrid, Spain) http://docencia.etsit.urjc.es/moodle/course/category.php?id=34
- Cours de Logiciel Libre de Roberto Di Cosmo http://dicosmo.org/CourseNotes/LogicielLibre/

Addendum :

- as separate slide decks
- orally → take notes (also during external speaker interventions)

Textbooks

📄 Joshua Gay, Richard M. Stallman
Free Software, Free Society : Selected Essays of Richard M. Stallman
2009
http://www.gnu.org/doc/fsfs-ii-2.pdf

📄 Van Lindberg
Intellectual Property and Open Source : A Practical Guide to Protecting Code
O'Reilly Media, 2008

📄 Eric S. Raymond
The Cathedral and the Bazaar : Musings on Linux and Open Source by an Accidental Revolutionary
O'Reilly Media, 1999
http://catb.org/esr/writings/cathedral-bazaar/

📄 Karl Fogel
Producing Open Source Software : How to Run a Successful Free Software Project
O'Reilly Media, 2005
http://producingoss.com/

?