

# Logiciel Libre

## Cours 0 — Presentation

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URL <https://upsilon.cc/zack/teaching/1819/1oglib/>  
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# 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.

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Let's look at a sample EULA:

[https://www.microsoft.com/en-us/Userterms/OEM/Windows/10/UseTerms\\_OEM\\_Windows\\_10\\_English.htm](https://www.microsoft.com/en-us/Userterms/OEM/Windows/10/UseTerms_OEM_Windows_10_English.htm) (July 2017)

## 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/>

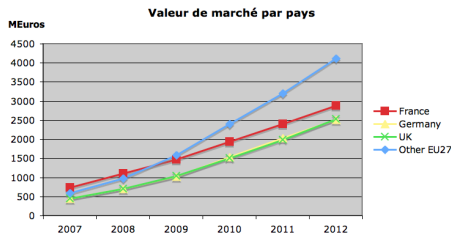
# Why bother? — as computer scientists

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:  $\approx 10\%$  of IT GDP in 2014 ( $\approx 4$  BEUR), constantly growing in spite of the crisis (cf. “Le marché du logiciel libre pèse 4,1 milliards en France”, Les Echos, 18/11/2015)



- “2017-2022: évolution du marché du Logiciel Libre en France”, CNLL/PAC 2017: slides,<sup>1</sup> video<sup>2</sup>

1. <https://tinyurl.com/y8rh6agj>

2. [https://youtu.be/80Rg\\_gSaKpo](https://youtu.be/80Rg_gSaKpo)

# This course — topics

An introduction to Free Software topics, along the following axes

- history
- philosophy
- legal
- management / organization
- business / economics
- 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: +0/+1/+2 bonus on the final grade
  - ▶ 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 1st TP
  - ▶ exclusion criteria:  
*“pour le cours de Logiciel Libre de M. Zacchioli 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 + TD bonus
- 2e session: 50% exam + 50% project + TD bonus

# This course — teaching material

<https://epsilon.cc/zack/teaching/1819/loglib/>

## 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, 2017 (2nd ed.)

<http://producingoss.com/>

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