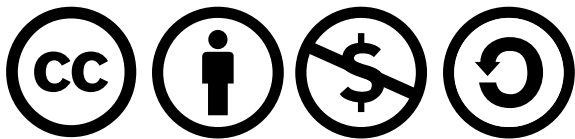


# How to make my business **open source & viable.** Live, on the ground **feedback.**



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# Ada on Rails context

- Ada is Libre Technology
- Ada helps FLOSS applications going safe and secure
- Ada lowers the energy to maintain FLOSS applications
- Ada suites lot's of FLOSS applications areas
- Ada suites multi language and multi platform environment

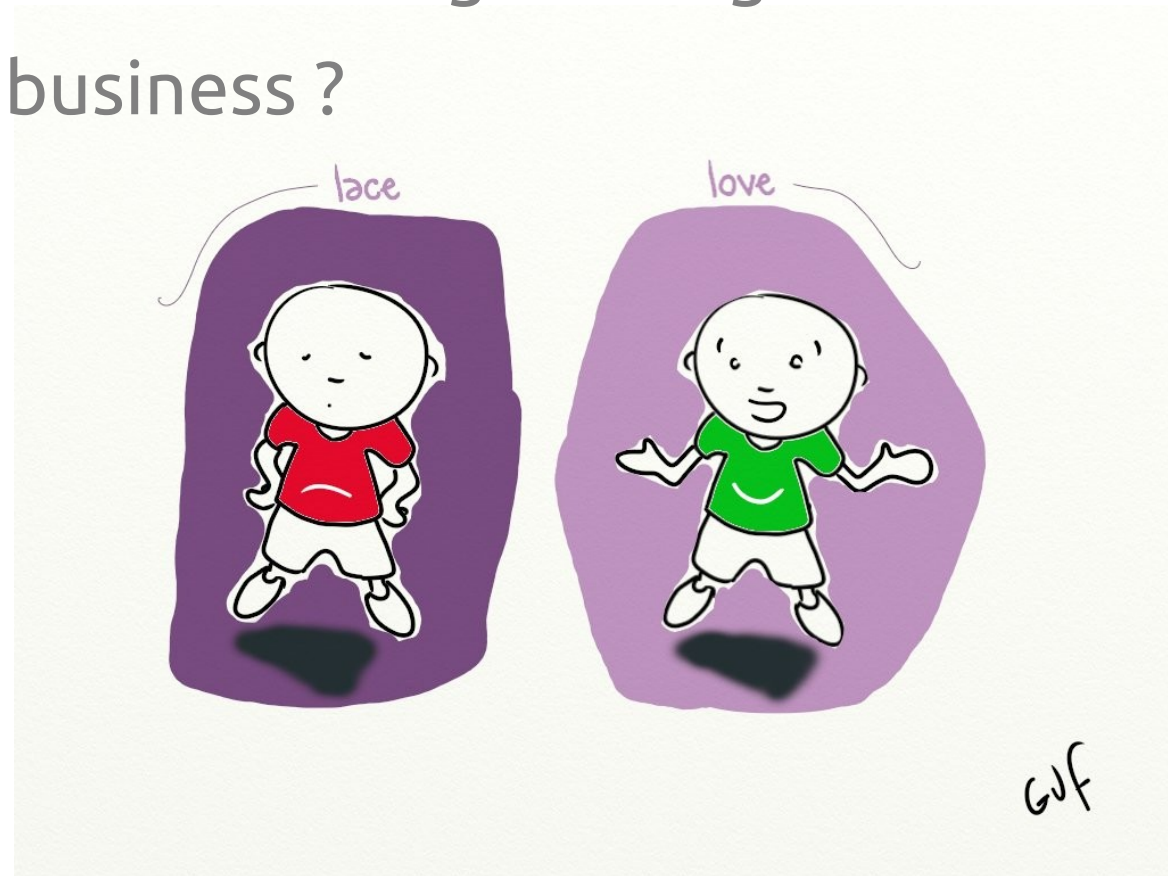
# Ada on Rails context

Ada is an attractive technology that provides:

- One of the richest language semantic
- Static typing
- Object oriented programming
- Exception handling
- Programming by contract
- Formal methods (using SPARK Ada)
- Real-time & multi-tasking
- Distributed computing
- Interfacing to other languages
- Genericity
- Enhanced package visibility
- Standard library services
- Portability
- Static reflexion (using ASIS)

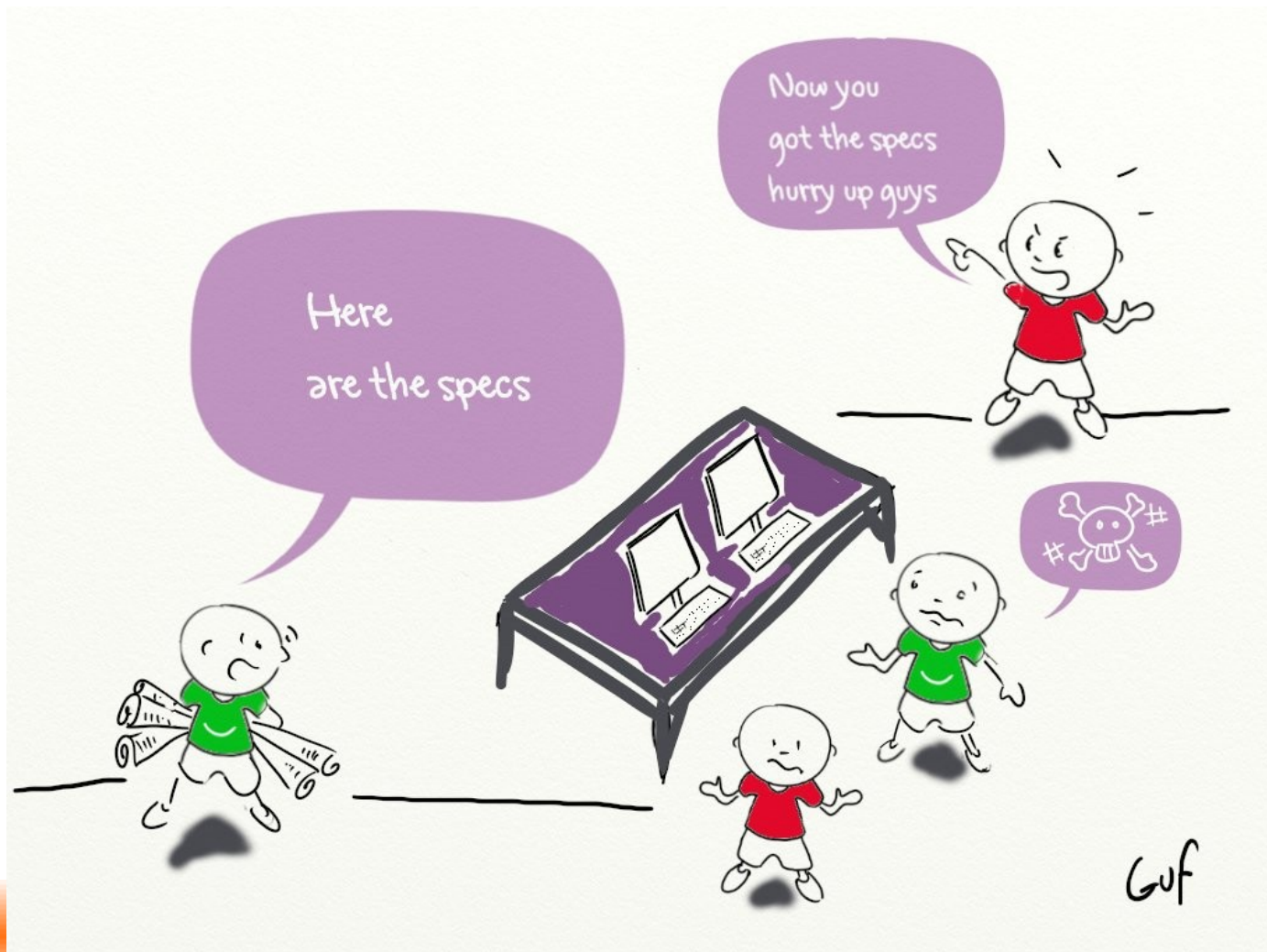
# Ada on Rails context

- Tooled framework for Software Engineering
- Open source & viable business ?
  - Community
  - Process
  - Tools
  - Technology
  - Intellectual Property
  - Economy



# Requirements strategy

- How does the community work together ?



# Tests strategy

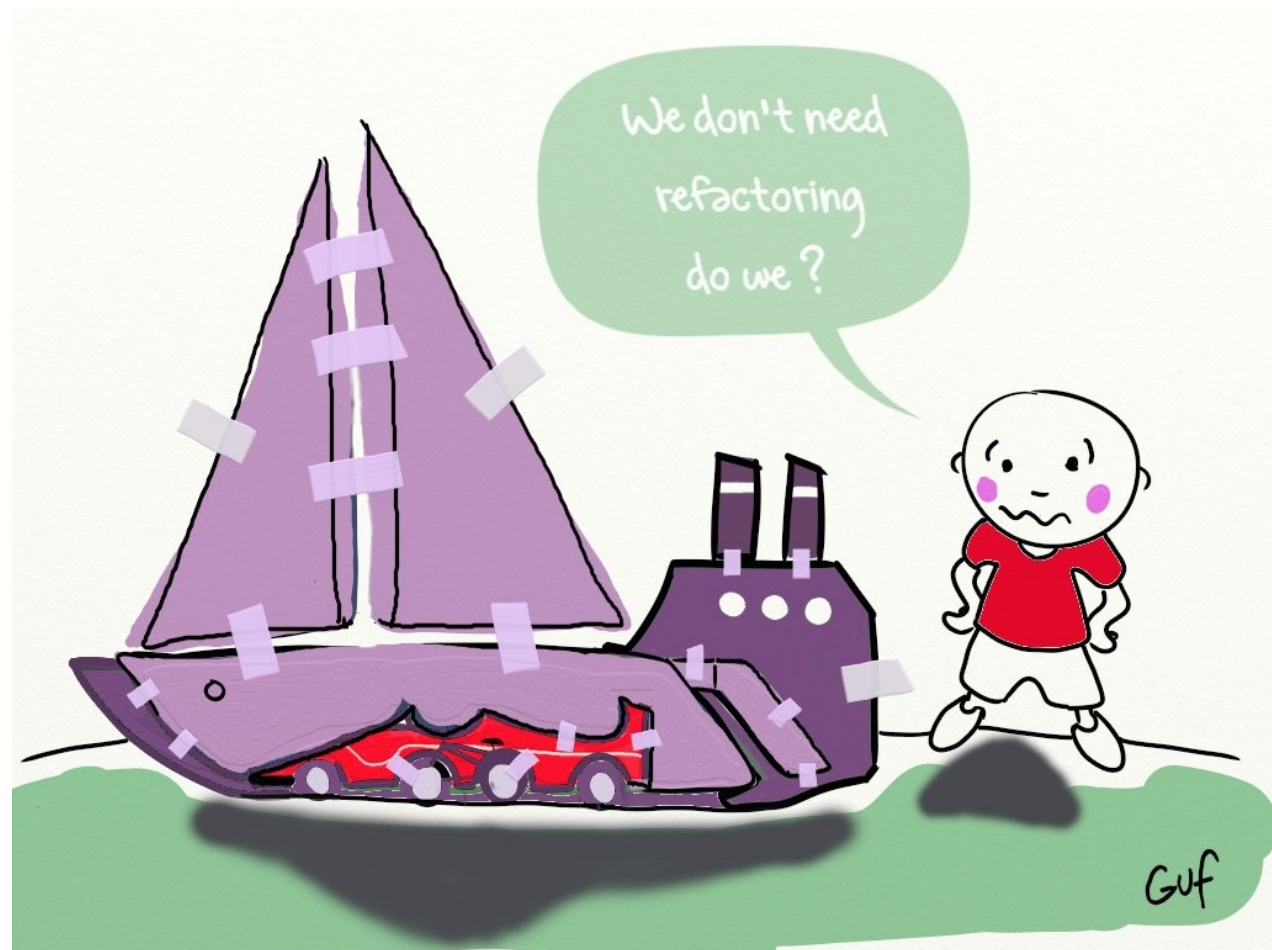
- Executable requirements
  - Functional
  - Correctness
- How to test ?
  - DSL
  - Sequence diagram
  - At which level ?
- Test efficiency
  - Minimize redundancy
  - Feedback loop



# Coding strategy

## Maintainability

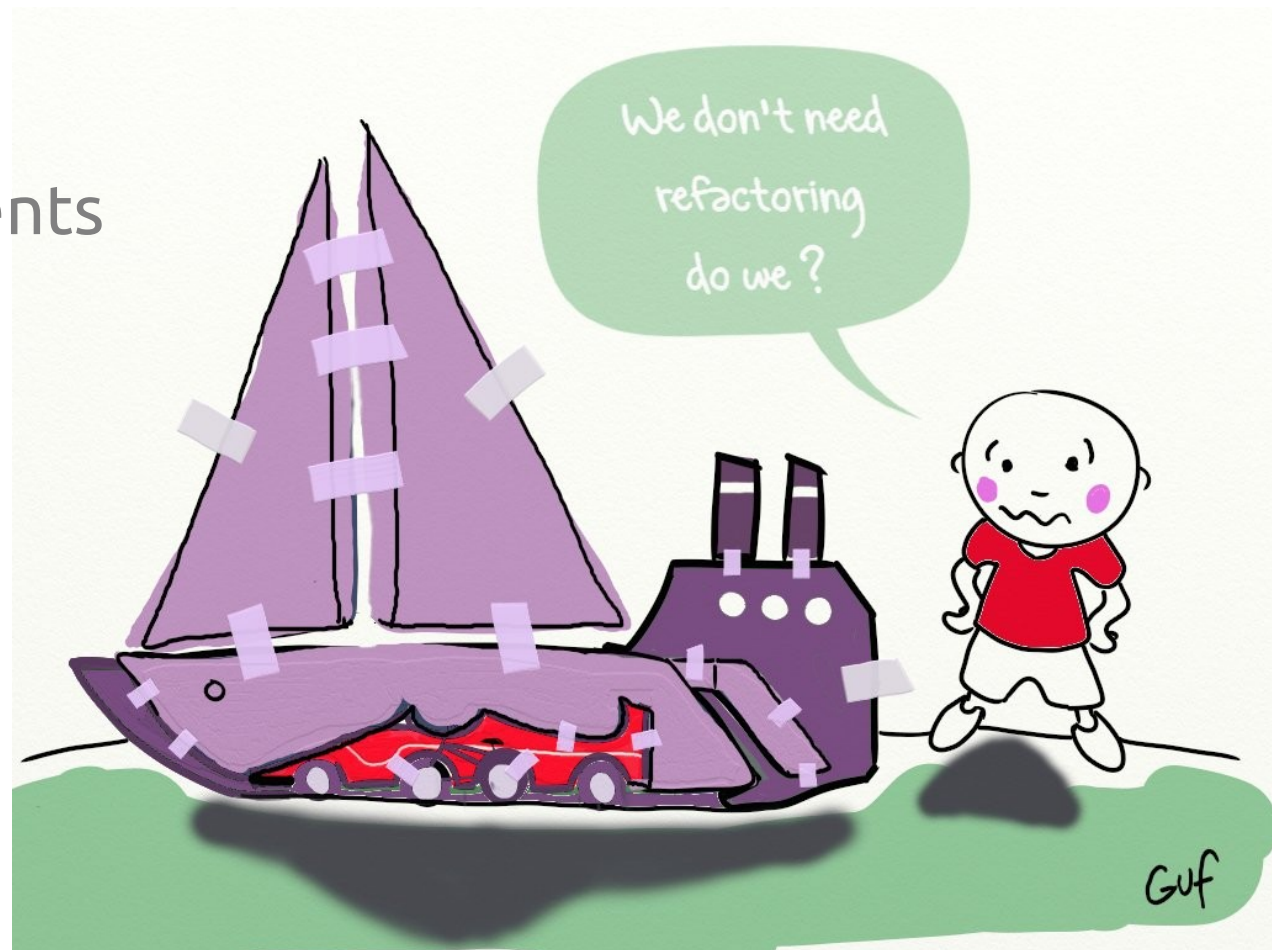
- Coding rules
- Design rules
  - Patterns
  - Frameworks
  - Encapsulation
- Reviews
- Refactoring



# Coding strategy

## Adaptability

- Visibility control between components
- Design rules



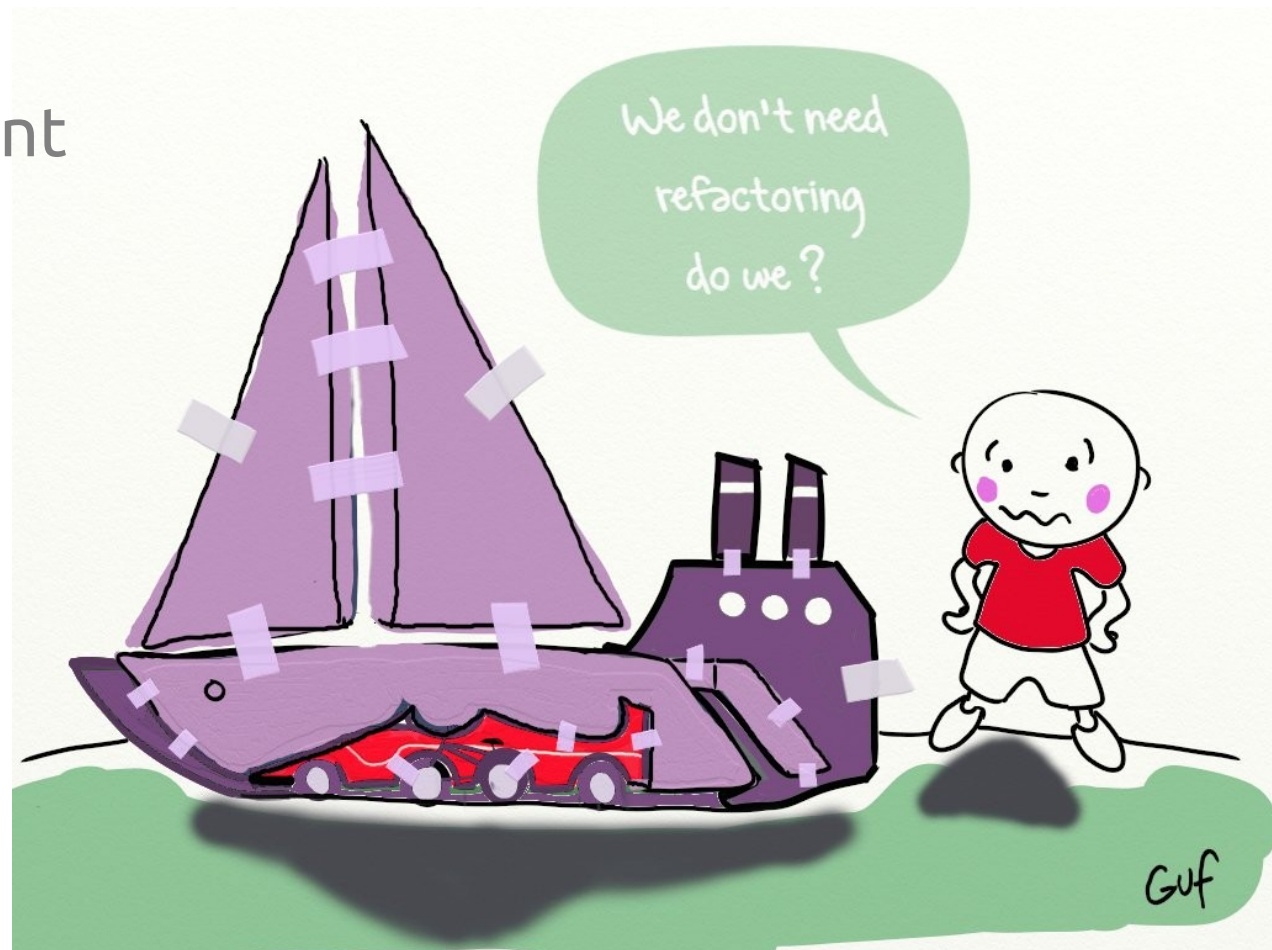


# Coding strategy

## Usability

- Impact management
- Interfaces control  
allows going  
from 0.1.x to 0.1.y

forbids going  
from 0.1.x to 0.2.y



# Community/Technology/Process

- Sharing & adopting common practises/process
- Tooling
  - Continuously Verified-Integration
  - Project Management
  - Verifications
  - Collaborative
  - Appropriate semantic

# Intellectual Property

- “Copyright assignment can unify a project under common ownership, or it can be misused to impose control”
- FSF gets copyright assignments from contributors  
<http://www.gnu.org/licenses/why-assign.html>
- Each author of code incorporated in FSF projects provide a copyright assignment
- Disclaimer of any work-for-hire ownership claims by the programmer's employer (where appropriate)
- FSF promises to keep the code free

# Intellectual Property

- Why ?
  - Avoid cooperation of all authors to ensure license evolution
  - Strong position to protect the code
  - Other developer can rely on
- What about companies ?

# Intellectual Property

- “Diluting the licence and principles of free and open source software also dilutes the advantage of being open source”
- Learn from the past ?
  - Programmers reluctant to paper work
  - Companies rewrite code already done to make sure of the ownership



# Intellectual Property

- License model impact your Business

Dual licensing  $\neq$  Open Core



- Ask for Copyrights assignment, but

<http://www.fsf.org/blogs/rms/assigning-copyright>

<http://www.gnu.org/philosophy/selling-exceptions.html>

- Commitment to publish the code also in the GPL version
- Be rewarded (\$/£/€/?)

# Economic strategy

- How to reward contributors
  - Evaluation process & committee
  - Contribution index
  - OpenUDC, Bitcoins: numeric currencies
  - Investment stage
- How to sell & at what price ?
  - Partnerships
  - Fixed price or according to clients turnover ?  
Corporate, SME, Academic, Individual



OPEN-UDC

# Sustainable Development

- Toward FLOSS community
  - Efficiency
  - Long term
  - Use the right persons, tools & processes

How much Energy to build/maintain/recycle:

- a car ?
- a software component ?



# Sustainable Development

- Toward my company
  - Environment
    - Green Energy (Sun, Sea, Wind)
    - Waste control & transformation
    - Suppliers & Clients
    - Light pollution (keep seeing the stars at night)
  - Social
    - Employees welfare
  - Economic
    - Share accordingly
    - Carbon footprint monitoring / neutralization

# That's all folks

Really don't  
want a harness?

