

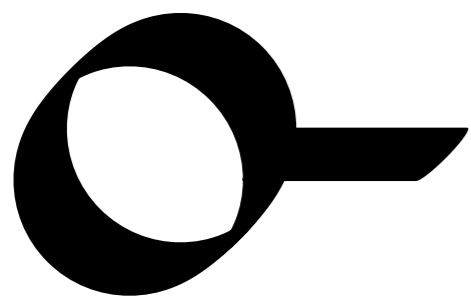
# Anarchy, Cooperation and the Bazaar

Ola Bini

computational metalinguist

ola.bini@gmail.com

<http://olabini.com/blog>



# History

# Before Open Source

IBM and SHARE

Operating Systems with source

MIT

Licensing

**GNU**

# GNU/Linux

# Mozilla

Today

# GitHub



# The Bazaar

1. Every good work of software starts by scratching a developer's personal itch.
2. Good programmers know what to write. Great ones know what to rewrite (and reuse).
3. "Plan to throw one away; you will, anyhow."
4. If you have the right attitude, interesting problems will find you.
5. When you lose interest in a program, your last duty to it is to hand it off to a competent successor.
6. Treating your users as co-developers is your least-hassle route to rapid code improvement and effective debugging.
7. Release early. Release often. And listen to your customers.

8. Given a large enough beta-tester and co-developer base, almost every problem will be characterized quickly and the fix obvious to someone.
9. Smart data structures and dumb code works a lot better than the other way around.
10. If you treat your beta-testers as if they're your most valuable resource, they will respond by becoming your most valuable resource.
11. The next best thing to having good ideas is recognizing good ideas from your users. Sometimes the latter is better.
12. Often, the most striking and innovative solutions come from realizing that your concept of the problem was wrong.
13. "Perfection (in design) is achieved not when there is nothing more to add, but rather when there is nothing more to take away."
14. Any tool should be useful in the expected way, but a truly great tool lends itself to uses you never expected.

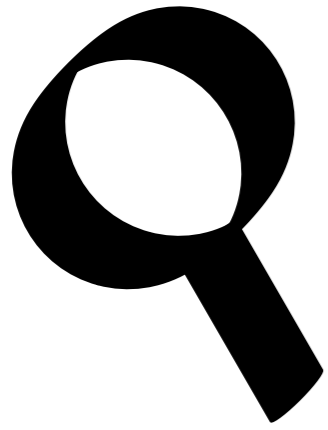
15. When writing gateway software of any kind, take pains to disturb the data stream as little as possible—and never throw away information unless the recipient forces you to!

16. When your language is nowhere near Turing-complete, syntactic sugar can be your friend.

17. A security system is only as secure as its secret. Beware of pseudo-secrets.

18. To solve an interesting problem, start by finding a problem that is interesting to you.

19. Provided the development coordinator has a communications medium at least as good as the Internet, and knows how to lead without coercion, many heads are inevitably better than one.



# Organization

collaboration |kəˌlæbəˈrɑːʃən|

noun

**1** the action of working with someone to produce or create something: *he wrote on art and architecture **in collaboration with** John Betjeman.*

• something produced or created in this way: *his recent opera was a collaboration with Lessing.*

**2** traitorous cooperation with an enemy: *he faces charges of collaboration.*

Small

Medium

# Large



# Scaling

# Leadership

# Meritocracy

meritocracy |,meri'täkɾəsē|

noun ( pl. **meritocracies** )

government or the holding of power by people selected on the basis of their ability.

- a society governed by such people or in which such people hold power.
- a ruling or influential class of educated or skilled people.

# Consensus community

# Dictatorship

dictatorship |dik'tātər, SHip, 'diktātər-|

noun

government by a dictator: *forty years of dictatorship.*

- a country governed by a dictator.
- absolute authority in any sphere.

Dictatorship +  
lieutenants



# Self regulation

anarchism | 'anər,kizəm|

noun

belief in the abolition of all government and the organization of society on a voluntary, cooperative basis without recourse to force or compulsion.

- anarchists as a political force or movement: *ruling-class fears of international anarchism during the 1890s.*

# Planning



# Communication

communication |kəˌmyʊəˈneɪˈkæʃən|

noun

**1** the imparting or exchanging of information or news: *direct communication between the two countries will produce greater understanding* | *at the moment I am **in communication with** London.*

- a letter or message containing such information or news.
- the successful conveying or sharing of ideas and feelings: *there was a lack of **communication between** Pamela and her parents.*
- social contact: *she gave him some hope of her return, or at least of their future communication.*

**2 (communications)** means of connection between people or places, in particular:

- the means of sending or receiving information, such as telephone lines or computers: *satellite communications* | [ as modifier ] : *a communications network.*
- the means of traveling or of transporting goods, such as roads or railroads: *a city providing excellent road and rail communications.*
- [ treated as sing. ] the field of study concerned with the transmission of information by various means.

# Tools

Version Control

Email

IRC

Bug Trackers

IM/Skype

Wiki

# Conflicts

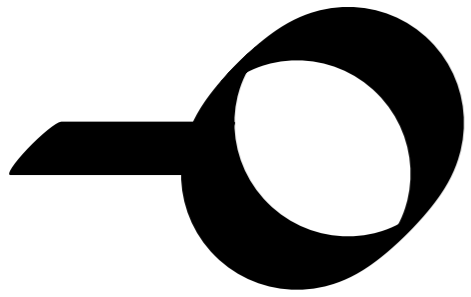
# Forking



# Domain knowledge

# Pairing

# Meeting



# Socioeconomics

cooperation |kō , äpə 'rāSHən|

noun

the process of working together to the same end: *they worked **in** close **cooperation with** the AAA.*

- assistance, esp. by ready compliance with requests: *we would like to ask for your cooperation in the survey.*
- Economics the formation and operation of cooperatives.

# Rewards

Releasing/done?

# Self organization



syndicalism |'sɪndəkəˌlɪzəm|

noun historical

a movement for transferring the ownership and control of the means of production and distribution to workers' unions. Influenced by Proudhon and by the French social philosopher *Georges Sorel* (1847–1922), syndicalism developed in French labor unions during the late 19th century and was at its most vigorous between 1900 and 1914, particularly in France, Italy, Spain, and the US.

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Examples

# JRuby

The SourceForge era

The Codehaus era

The Github era

# RapidFTR

Mobile application and data storage with focus on collecting information children in emergency situations

~55 contributors, started 2010

Google Group - Skype - Github

Consistent quality standard

Github enables reviewing and commenting before merging

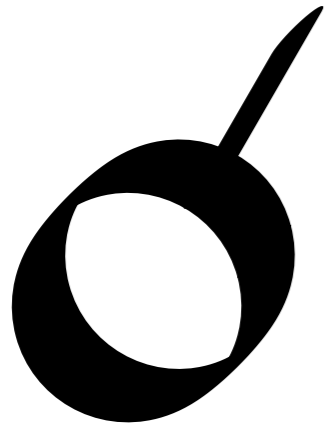
# ICRAR

Scientist encouraged to set up pet projects as OSS

Primary model: Fork and Pull with a mix of Trusted Contributor

Feedback on pull requests ended up sensitive without prior relationship

Time balance guides where you draw the line for Trusted Contributor



# Evaluation

Better

Worse



# Distribution

# Questions?

**OLA BINI**

**ThoughtWorks®**

<http://olabini.com>  
[obini@thoughtworks.com](mailto:obini@thoughtworks.com)

@olabini