# Open Source, Open Standards OPEN INDS

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A Philosophy

A Standard for Evaluating Software Licenses

A Set of Community Expectations



### A Philosophy



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### What is free software?

### The Free Software Definition

The free software definition presents the criteria for whether a particular software program qualifies as free software. From time to time we revise this definition, to clarify it or to resolve questions about subtle issues. See the History section below for a list of changes that affect the definition of free software.

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"Free software" means software that respects users' freedom and community. Roughly, it means that the users have the freedom to run, copy, distribute, study, change and improve the software. Thus, "free software" is

a matter of liberty, not price. To understand the concept, you should think of "free" as in "free speech," not as in "free beer". We sometimes call it "libre software" to show we do not mean it is gratis.

We campaign for these freedoms because everyone deserves them. With these freedoms, the users (both individually and collectively) control the program and what it does for them. When users don't control the program, we call it a "nonfree" or "proprietary" program. The nonfree program controls the users, and the developer controls the program; this makes the program an instrument of unjust power.

A program is free software if the program's users have the four essential freedoms:

- The freedom to run the program as you wish, for any purpose (freedom 0).
- The freedom to study how the program works, and change it so it does your computing as you wish (freedom 1). Access to the source code is a precondition
- The freedom to redistribute copies so you can help your neighbor (freedom 2).
- The freedom to distribute copies of your modified versions to others (freedom 3). By doing this you can give the whole community a chance to benefit from your changes. Access to the source code is a precondition for this.

A program is free software if it gives users adequately all of these freedoms. Otherwise, it is nonfree. While we can distinguish various nonfree distribution schemes in terms of how far they fall short of being free, we consider them all equally unethical

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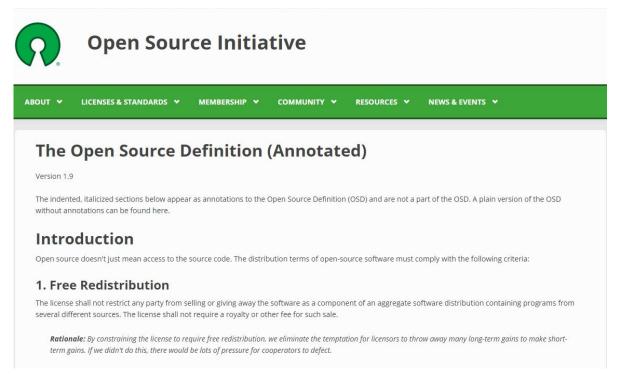
A Philosophy

"Roughly, it means that the users have the freedom to run, copy, distribute, study, change and improve the software."



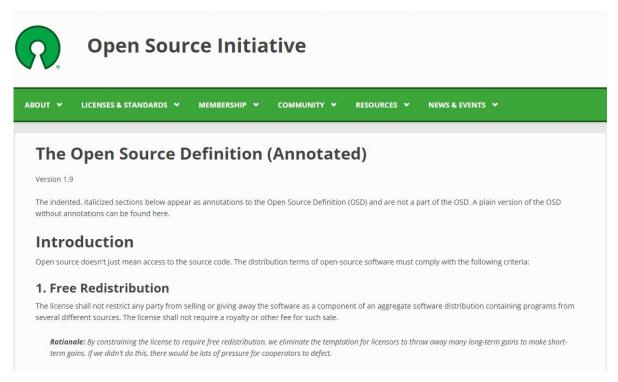


A Standard for Evaluating Software Licenses





A Standard for Evaluating Software Licenses





A Standard for Evaluating Software Licenses

"The distribution terms of opensource software must comply with the following criteria"





### A Standard for Evaluating Software Licenses

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### 5. No Discrimination Against Persons or Groups

The license must not discriminate against any person or group of persons.

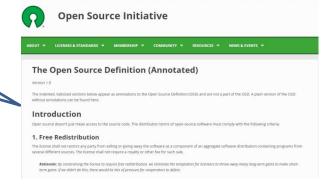
### 6. No Discrimination Against Fields of Endeavor

The license must not restrict anyone from making use of the program in a specific field of endeavor. For example, it may not restrict the program from being used in a business, or from being used for genetic research.

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### 10. License Must Be Technology-Neutral

No provision of the license may be predicated on any individual technology or style of interface.



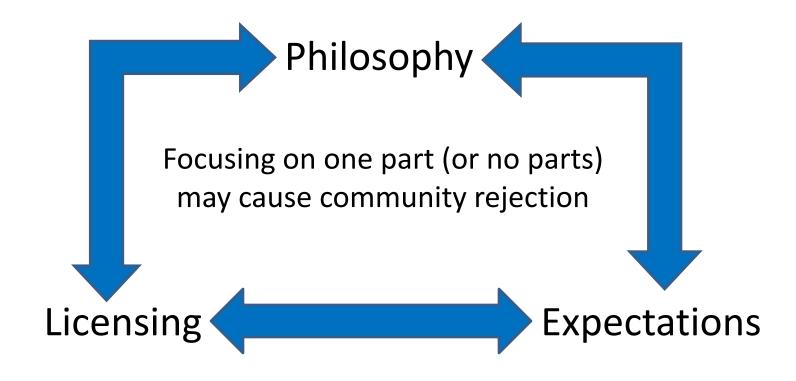


- A Set of Community Expectations
  - Collaborative development
  - Right to "fork"
  - Acceptance on technical merit

### and very likely

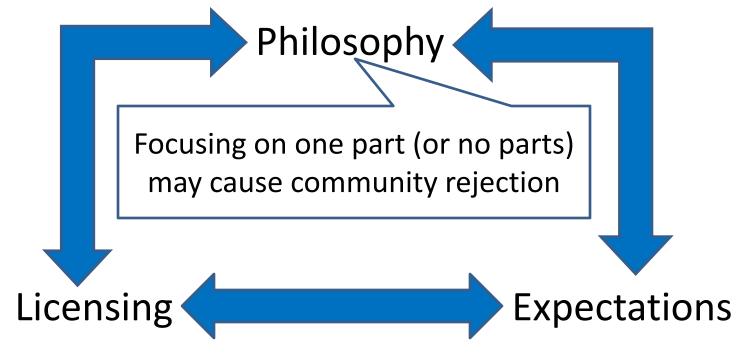
- Contributors' intellectual property won't thwart project
  - See: newer OSI license patent grants
- Don't have to join or sign anything else



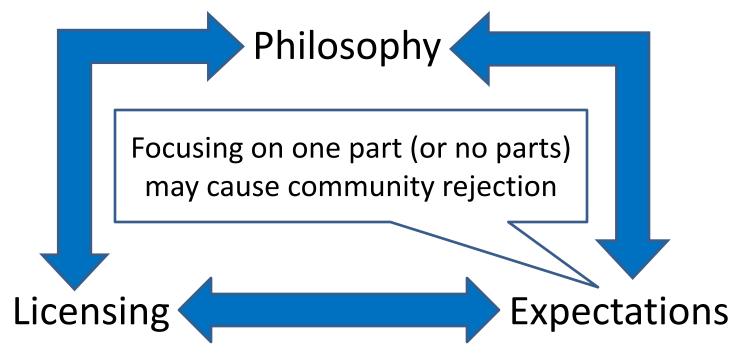




"The source code **is** available!"

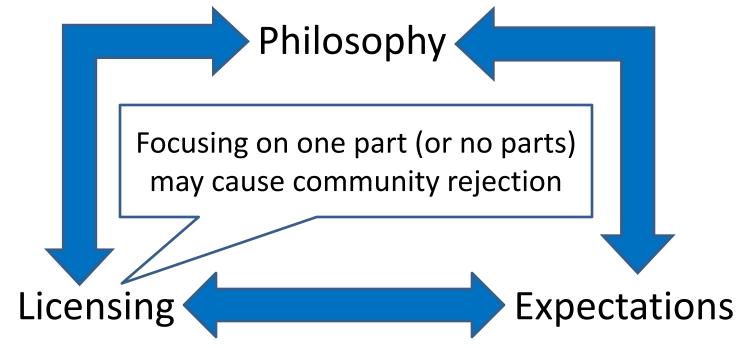






"The project is open to all!"





"We are using an OSI-, or FSF-, -approved license!"





Process-Based

Outcome-Based



- Process-Based
  - ANSI Essential Requirements
    - Consensus
    - Public Review
    - Comments & Changes
    - Appeal
      - http://www.ansi.org/essentialrequirements



- Outcome-Based
  - European Interoperability Framework
    - Consensus
    - Specification freely available
    - Non-profit organization
    - No constraints on reuse
    - Patents irrevocably available royalty-free
      - http://ec.europa.eu/idabc/servlets/Docd552.pdf?id=19529



**Process-Based** 

The Middle Ground

Outcome-Based





The Middle Ground



"As long as the source code is available, the standard's code is 'open'"

The Middle Ground

"The standard must be royalty-free, for any use"



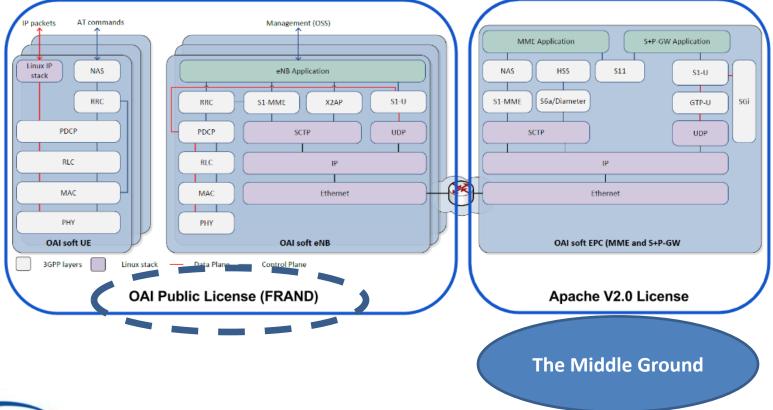
- Use an OSI-approved license, unmodified
- With express patent grants to contributions
  - E.g., not BSD & MIT-type
- RAND doesn't cover open source software



The Middle Ground
5, 2016

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Open Air Interface





- Open Air Interface
  - "Open Air Interface Public License"
    - Apache 2.0, modified
      - Patent grant only for "study and research purposes"
      - Otherwise, contributors commit to FRAND
  - Is interface "open," & is license "public"?
    - "The OpenAirInterface™ Software Alliance (OSA) is a ...
      consortium to develop ... open source software..."



- Hypothetical
  - Hardware + software standard
    - Hardware: specification document
    - Software: code developed by standards body
    - RAND IPR Policy
    - Software released under BSD or MIT
      - No express patent grant, or express grants disclaimed
  - -Outcome?



## Open Minds – Open for Questions

