Making Sense of Open Source Licenses

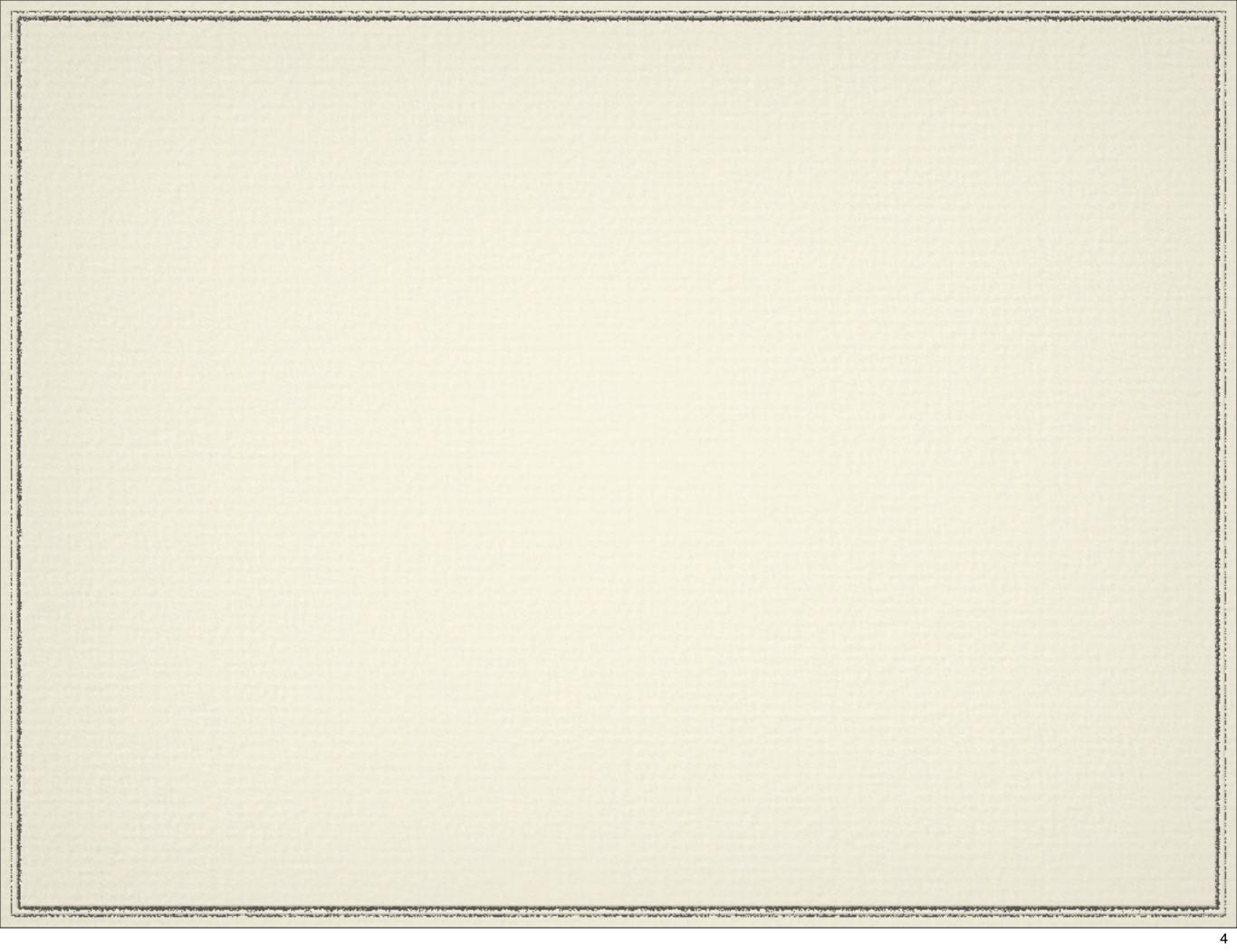


J Aaron Farr ApacheCon US 2008 Open Source #

Development Methodology

Open Source =

License



Open Source License Rights and Conditions Empower Community

The license determines the rules the community lives by.

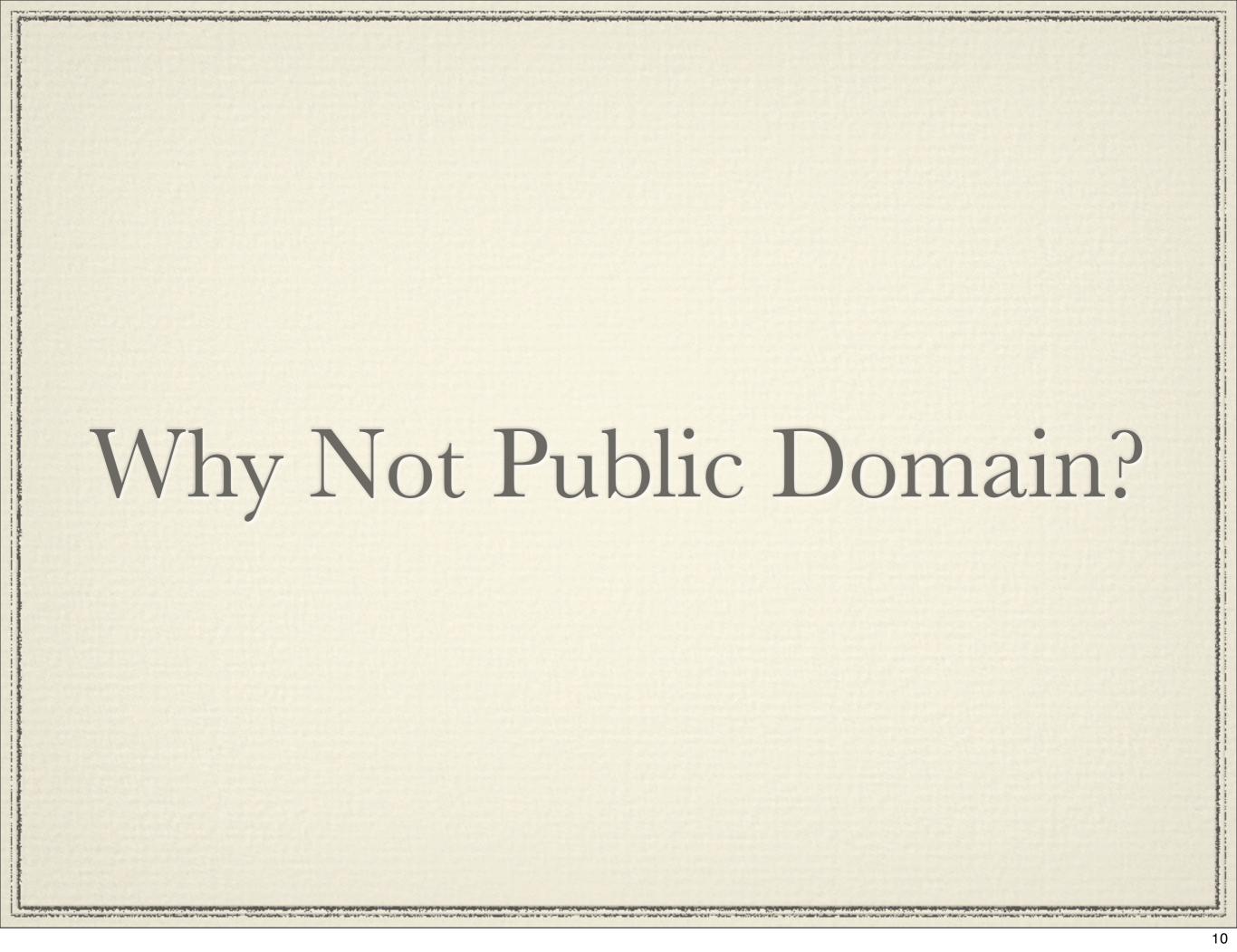
Different licenses create different communities.

Free Software & Open Source

The license captures the community philosophy.

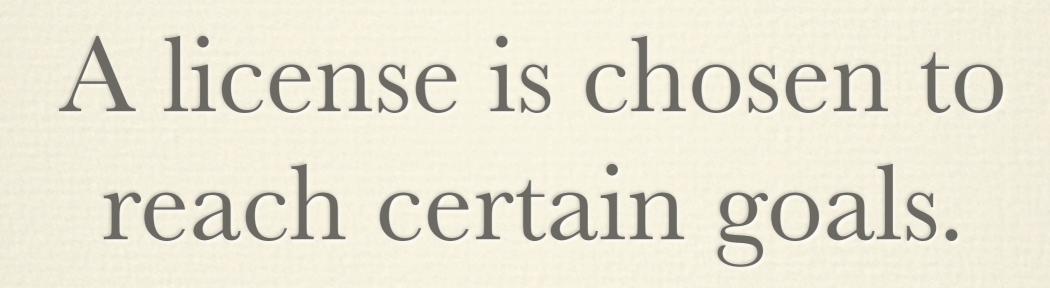
Making Sense of OSS Licenses

- * Goals
- Philosophy
- Example Uses
- Community Implications



Why Not Public Domain?

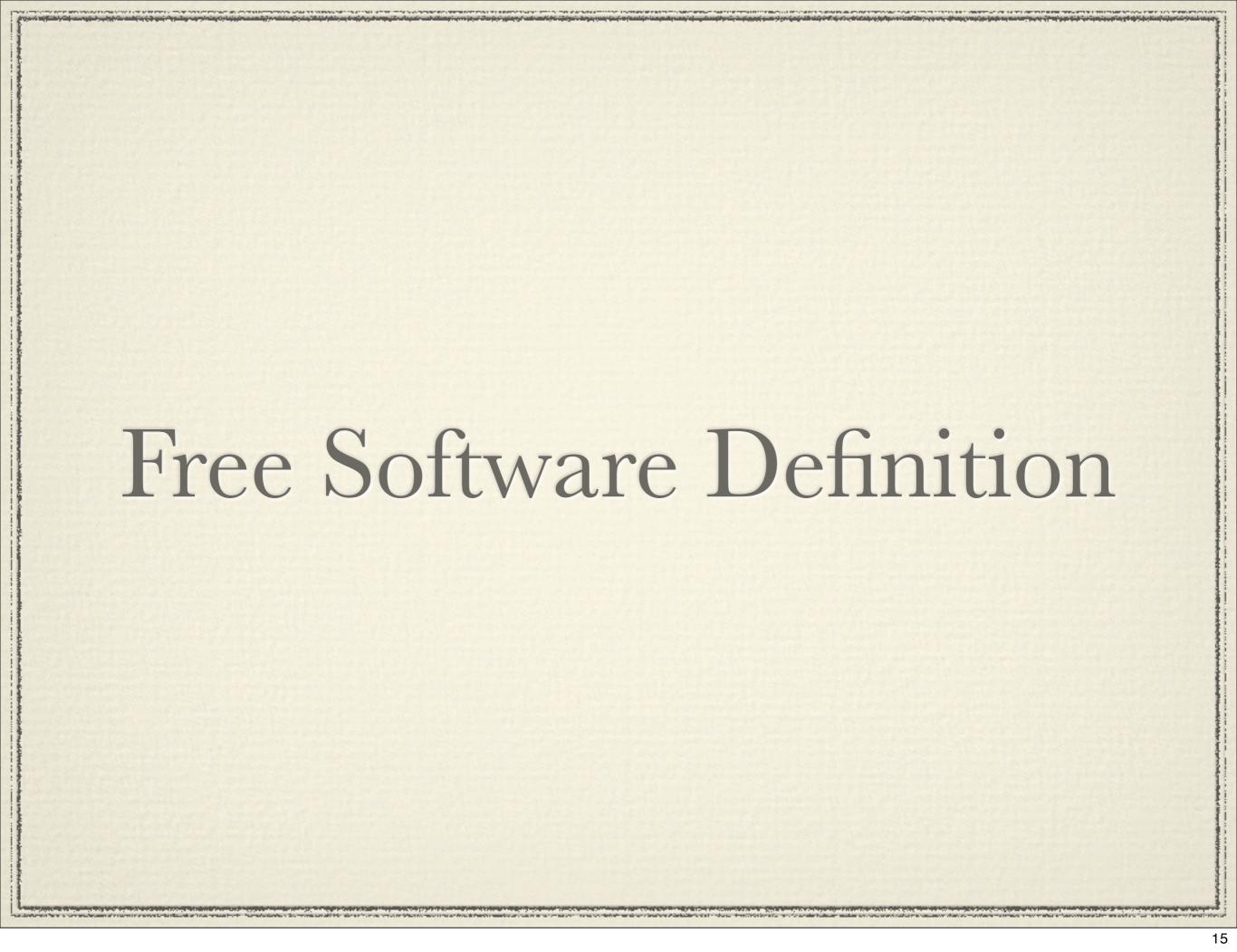
- Warranty
- * Attribution
- * Requirements on distribution
- * Requirements on derivative works
- * To ensure code remains open source





License Goals

- * Ensure certain code remains open source
- * Reserve control
- * Build a commercial coalition
- Encourage third-party marketplace
- Challenge competitors

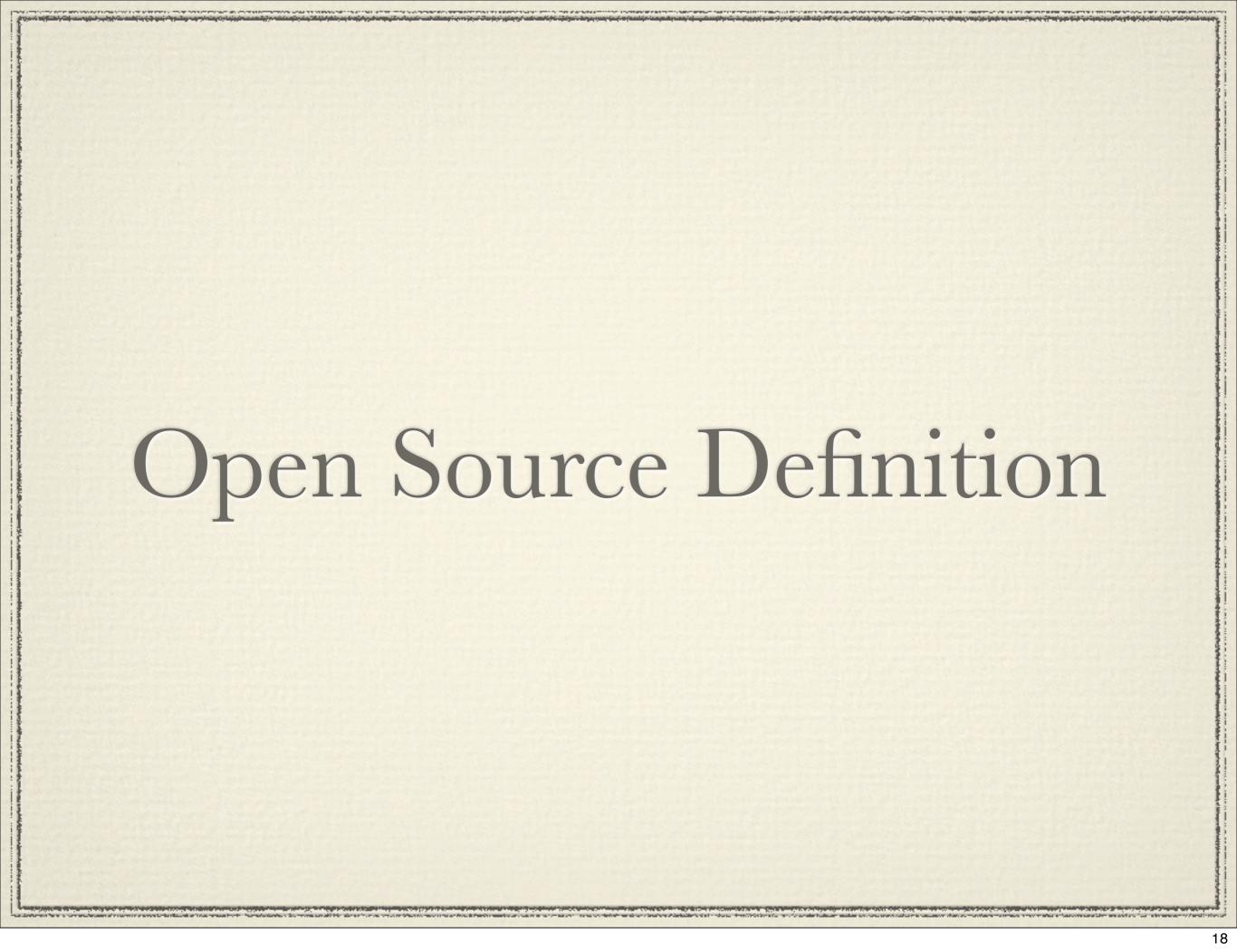


Four Freedoms

- Freedom to run the program
- * Freedom to study and adapt the program
- Freedom to redistribute
- Freedom to improve



Copyleft



Open Source Software Definition

- * Free Redistribution
- * Source Code
- Derived Works
- Integrity of Author's Code
- No Discrimination

- Distribution of the License
- No Specific Technology
- Cannot RestrictOther Software
- * Technology-Neutral

Free Distribution

By constraining the license to require free redistribution, we eliminate the temptation to throw away many long-term gains in order to make a few short-term sales dollars. If we didn't do this, there would be lots of pressure for cooperators to defect.

Source Code

We require access to un-obfuscated source code because you can't evolve programs without modifying them. Since our purpose is to make evolution easy, we require that modification be made easy.

Derivative Works

The mere ability to read source isn't enough to support independent peer review and rapid evolutionary selection. For rapid evolution to happen, people need to be able to experiment with and redistribute modifications.

Integrity of Author's Source Code

Encouraging lots of improvement is a good thing, but users have a right to know who is responsible for the software they are using. Authors and maintainers have reciprocal right to know what they're being asked to support and protect their reputations.

No Discrimination

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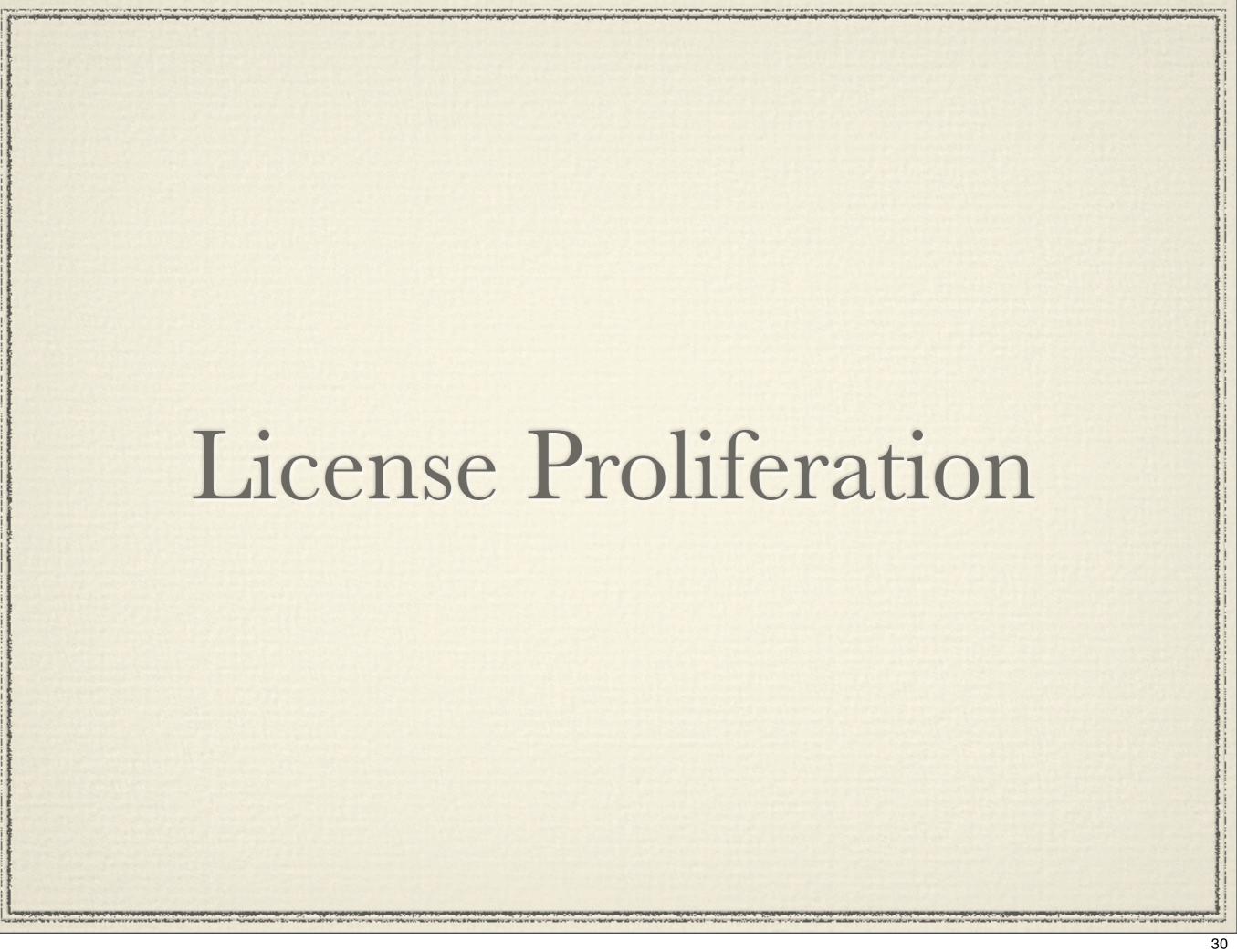
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Most Common Licenses

- * Apache License, 2.0
- * BSD licenses
- * GNU General Public License (GPL)
- GNU Library or "Lesser" General Public License (LGPL)
- * MIT license
- Mozilla Public License 1.1 (MPL)
- Common Development and Distribution License
- Eclipse Public License
- * Artistic Licenses

Open Source License Families

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- Give Me Everything
 - * GPL

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Give Me Credit

- * Software "Commons"
- Derivatives can sub-license
- May have some conditions
 - No warranty
 - Credit to original authors required
- * Apache (AL), BSD, MIT

Give Me Credit

- Universal donor
- * Limited control by any one entity
- * Little value in direct commercial licensing
- * Allows for commercial product development
- * Allows for competing services
- * Commoditized and "low-level"

Give Me Fixes

- * File or derivative based conditions
- Original author may have special rights
- * Differentiate between source and binary
- * Larger works can be under a different license
- * Mozilla (MPL), Eclipse (EPL/CPL), LGPL

Give Me Fixes

- Single entity control
- * Still very "business friendly"
- * Encourages incorporation of code into larger works
- * Ensures direct development benefits all
- Tends towards libraries or platforms

Give Me Everything

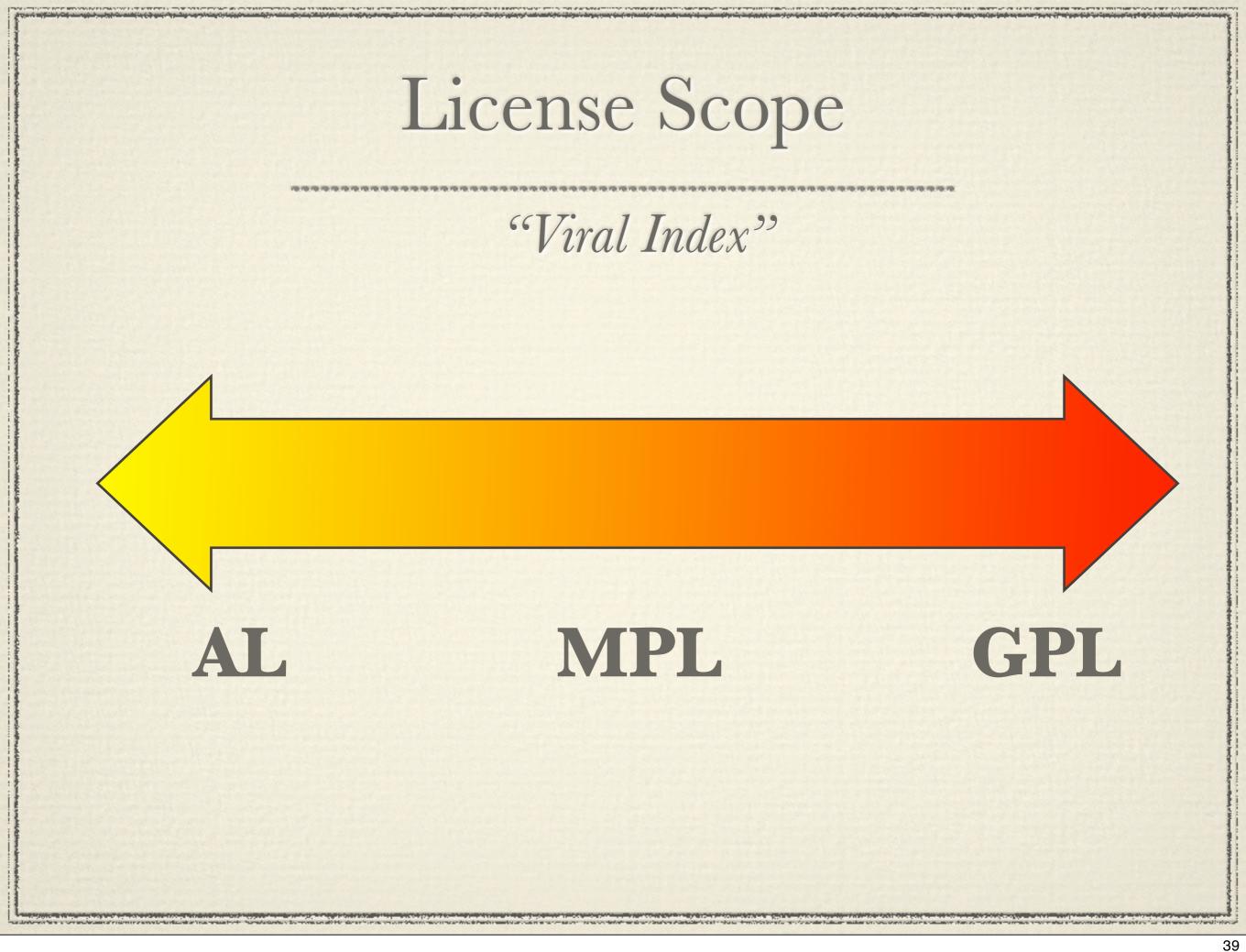
- Copyleft
- * Derivative works remain under the license
- * Linked works may also remain under the license
- * Ensures all 'down stream' have the same rights
- * GPL

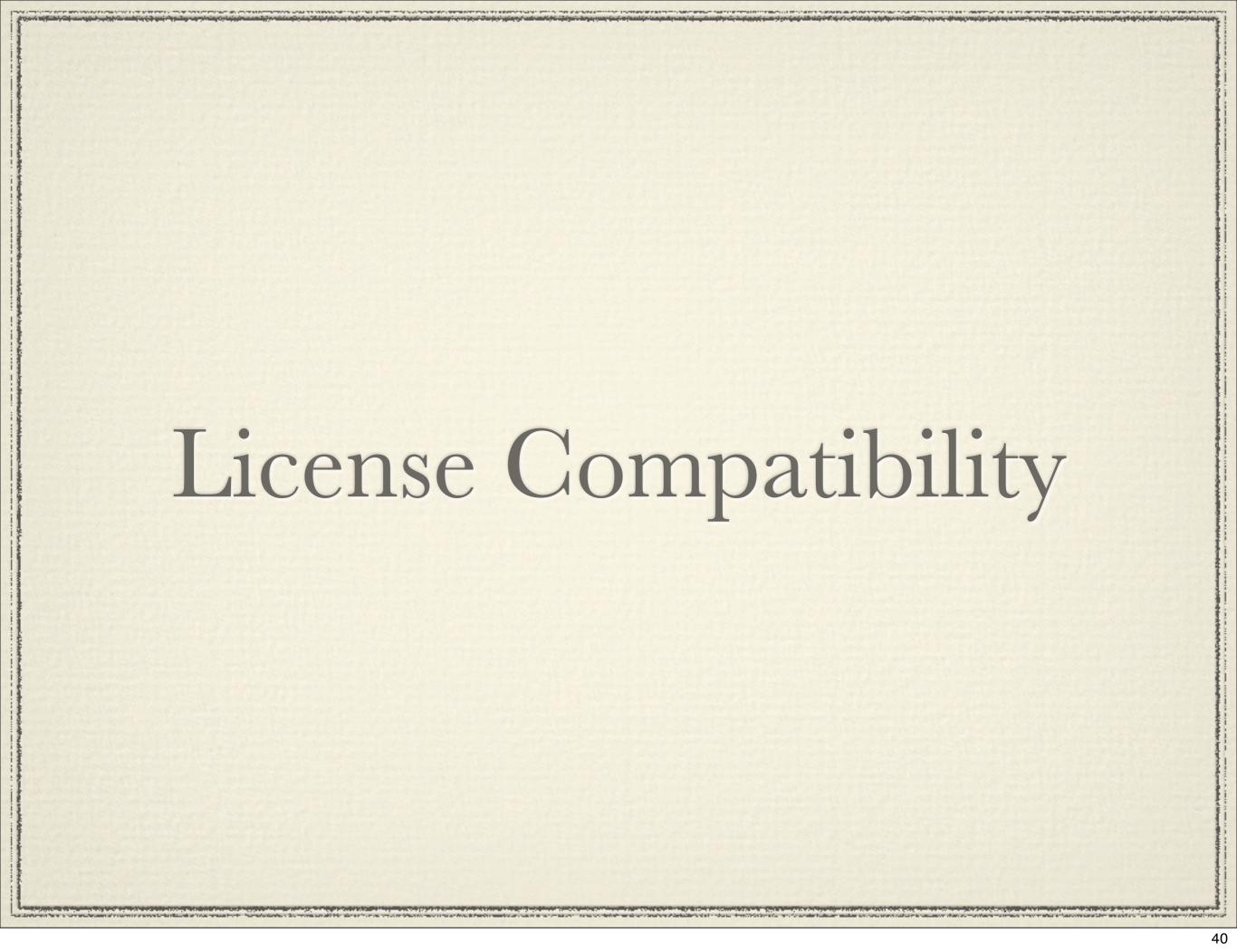
Give Me Everything

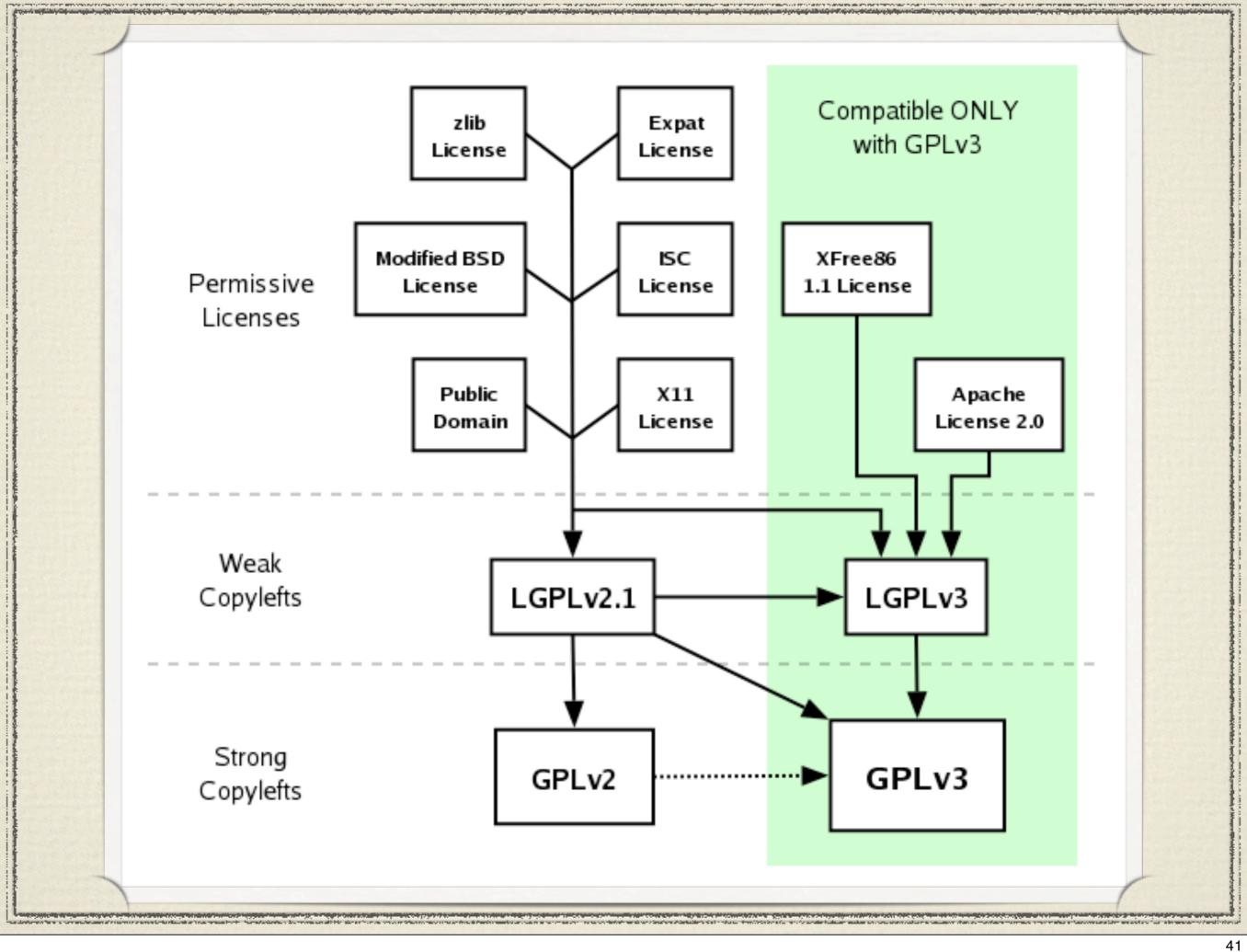
- * All direct development is contributed back
- * Contributors assured code remains open source
- * Encourages a full free software economy
- * Copyright holder retains much control
- * Limits commercial adoption
- Dual-license business strategy

License Scope

"Viral Index"







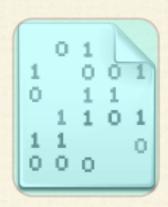




























AL



MPL / LGPL



GPL

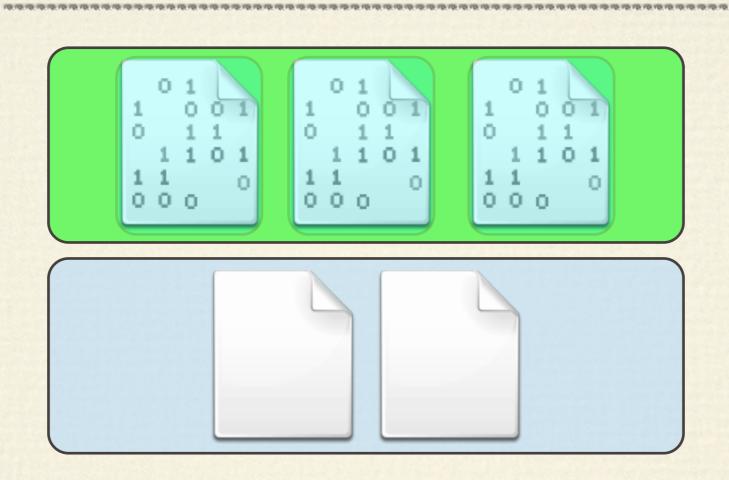


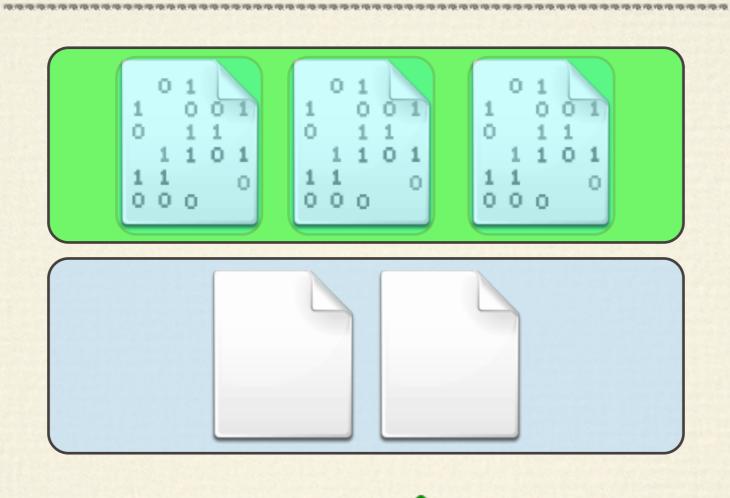










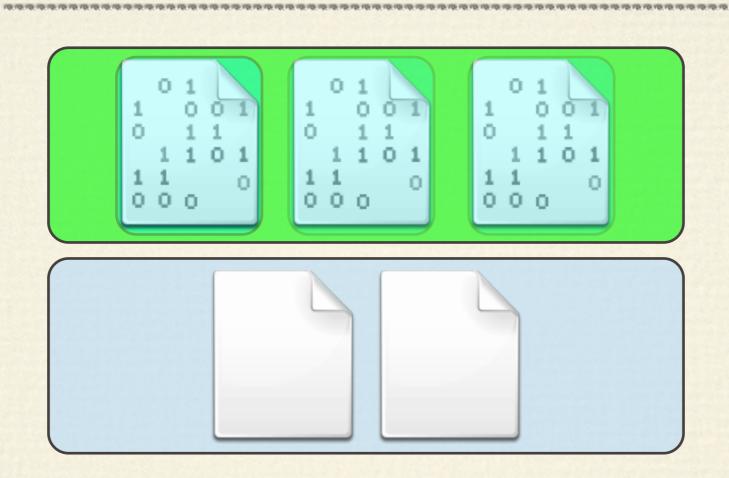


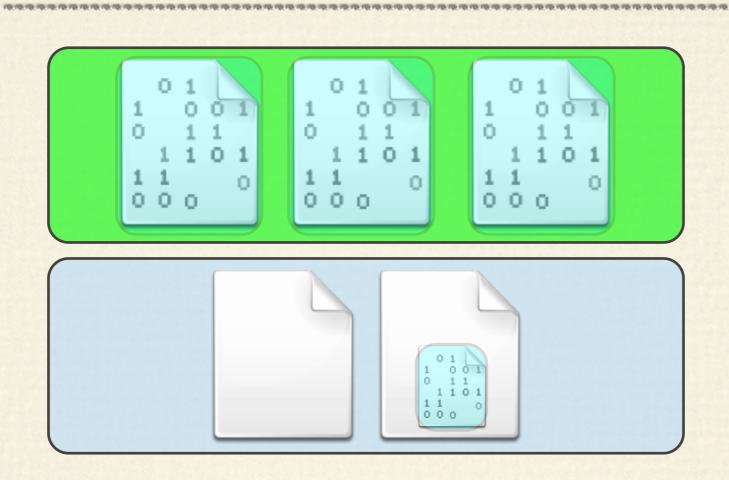


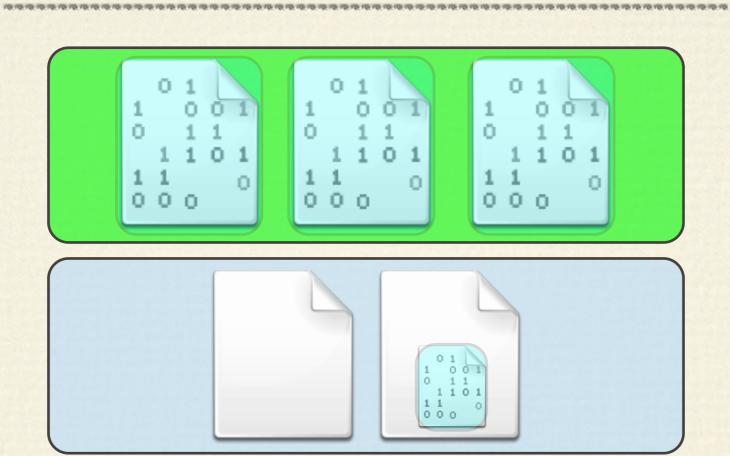


MPL/LGPL GPL









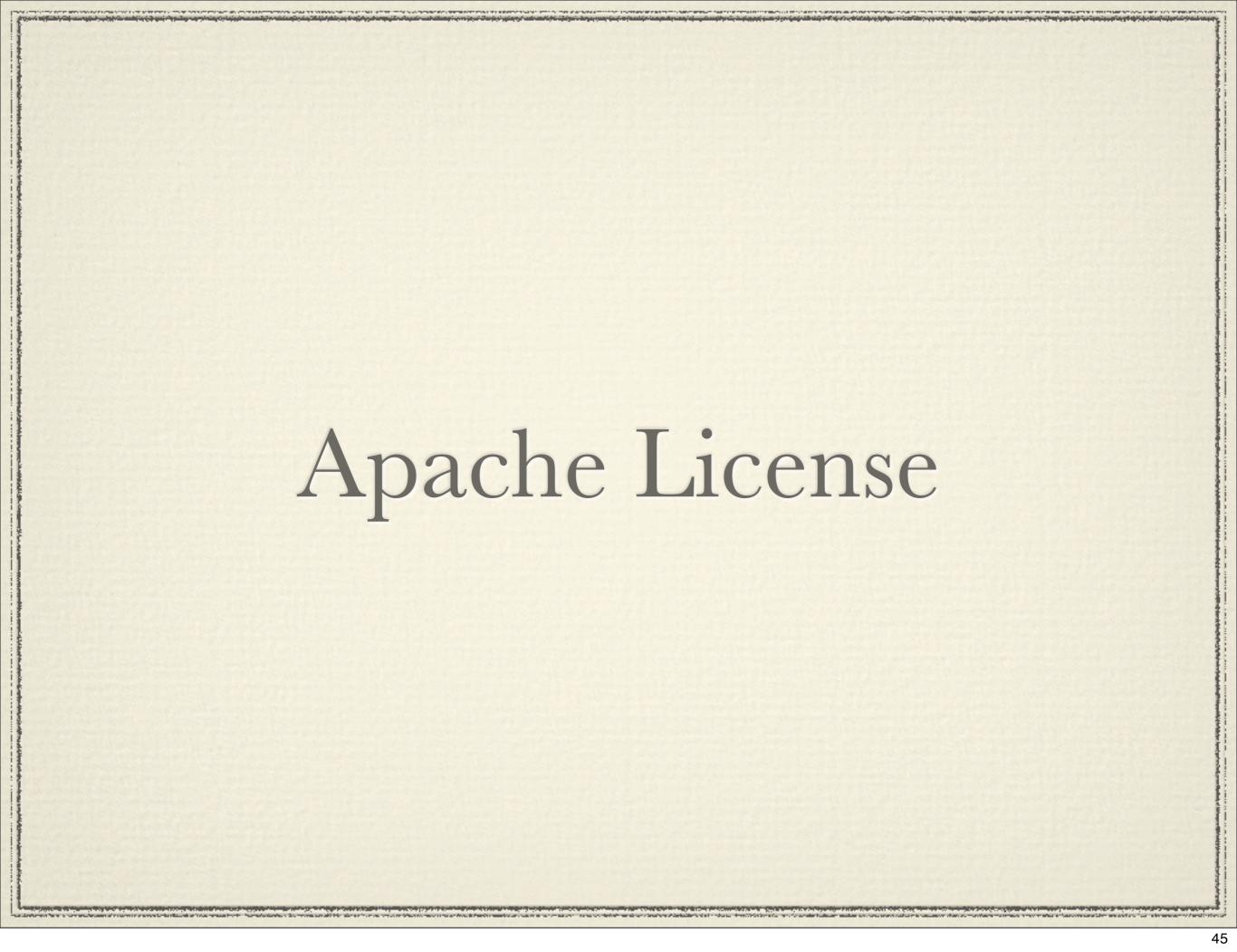


AL



MPL/LGPL GPL





Apache License

- * Permissive License (Gimme Credit)
- * Requires Attribution via a NOTICE file
- * No Trademark Grant
- * Grant of Patent License

Apache License Philosophy

* To allow the maximum use of our software for any purpose and by all people.

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- Philosophy
- Example Uses
- Community Implications

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Questions?

Thank you! farra@apache.org