



Next Generation IoT as part of Next Generation Internet

Open Source

Jonathan Klimt



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Disclaimer



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- I'm not a lawyer! No guarantees on anything said here.

Definition Open-Source



- License - not code availability!
- Required rights
 - The **use** of the software must be allowed without restrictions to a specific duration, geography, field, product, or group of people.
 - **Sharing** of the software must be possible without additional fees.
 - **Modification** and improvement of the software must be enabled by making the original source code available
- (This does not prohibit commercial use)

General Notes



- Major organizations
 - Open Source Initiative (OSI)
 - Free Software Foundation (FSF)
- Basically no open-source license provides warranty or liability
- OSI lists > 100 open-source licenses

License Categories



- Permissive
- Copyleft
 - Strong
 - Weak
- (*“Soft categories”*)

Permissive Licenses

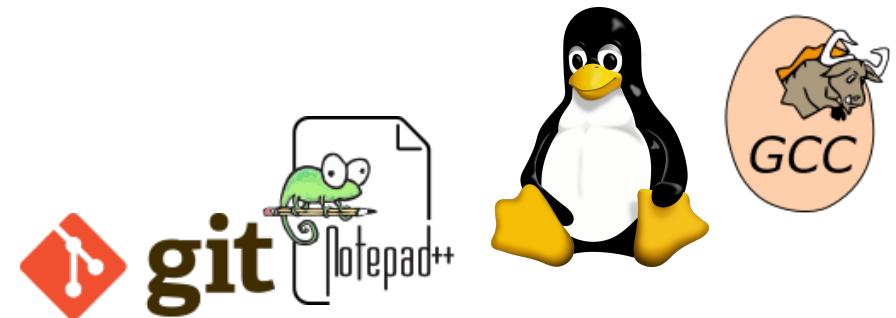
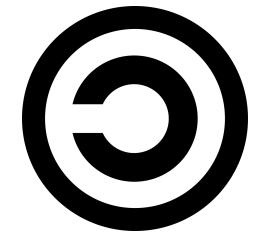


- Must include copyright and license notice
- Popular examples
 - MIT
 - use, copy, modify, merge, publish, distribute, sublicense, and/or sell
 - include copyright notice
 - BSD
 - Different flavours
 - Mostly the same as MIT
 - Apache
 - explicit patent license grant
 - modifications must be listed

Copyleft



- Rights must be preserved in derivatives
 - No further license restrictions in derivatives
 - => SW using Copyleft licensed SW must be copyleft as well
 - also if only parts are derived
- “viral” license
- Popular examples:
 - GPL
 - EUPL



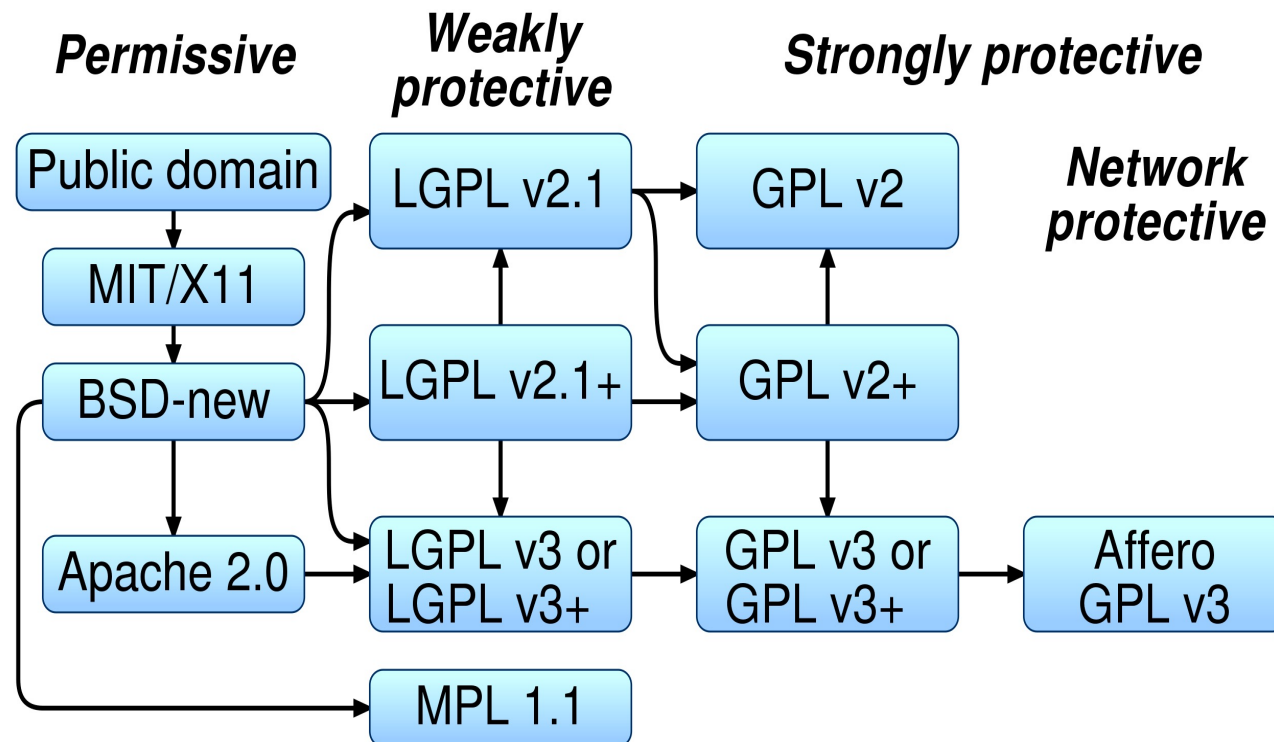
Weak Copyleft



- As strong copyleft, but additional use
 - e.g. use in non-copyleft or proprietary SW
- Popular examples:
 - LGPL
 - allows only dynamic linking
 - Mozilla Public License
 - allows static linking
 - Eclipse Public License
 - Similar to MPL but not GPL compatible



Compatibility



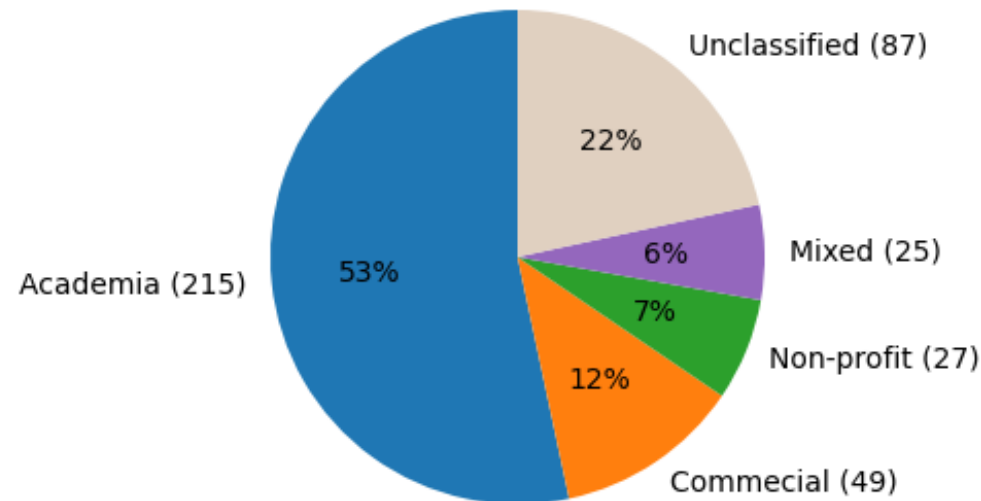
Topics not discussed here



- Non-Code licenses (e.g. Creative Commons)
- Sublicensing
- Split licenses
- Contributors License Agreements
- Intra-version compatibilities
- Trademarks

Example: Open-Source in Energy Domain

- Classification of >300 energy-related open-source projects



Preliminary & Confidential

Helpful links



- <https://choosealicense.com/licenses/>
- <https://opensource.org/licenses/alphabetical>