

Practical - 1

List of Licenses

GitHub Licenses

License Name	Description (Patent Use Info)
MIT License	Permissive license allowing reuse, modification, and distribution with attribution. ✗ No explicit patent grant.
Apache License 2.0	Permissive license with clear conditions. ✓ Includes explicit patent grant and patent protection.
GNU General Public License (GPL v3)	Strong copyleft license; derived works must remain open source. ✓ Includes patent protection clauses.
GNU Lesser General Public License (LGPL)	Allows linking with proprietary software. ✓ Provides limited patent protection.
BSD 2-Clause License	Simple permissive license requiring attribution. ✗ No explicit patent rights.
BSD 3-Clause License	Permissive license with non-endorsement clause. ✗ No explicit patent rights.
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Comparative Table of Common GitHub Licenses

License	Commercial Use	Modification	Distribution	Patent Grant	Copyleft
MIT	Yes	Yes	Yes	No	No
Apache 2.0	Yes	Yes	Yes	Yes	No
GPL v3	Yes	Yes	Yes	Yes	Strong
LGPL	Yes	Yes	Yes	Yes	Weak
BSD 2-Clause	Yes	Yes	Yes	No	No
BSD 3-Clause	Yes	Yes	Yes	No	No
MPL 2.0	Yes	Yes	Yes	Yes	Weak
CC0	Yes	Yes	Yes	No	No
Unlicense	Yes	Yes	Yes	No	No

Git Alternatives – Comparative Table

Tool	Type	Best Used For	Key Difference from Git
SVN (Subversion)	Centralized VCS	Small teams, simple projects	Uses a single central repository
Mercurial	Distributed VCS	Easy and fast version control	Simpler commands than Git
Perforce (Helix Core)	Centralized / Hybrid VCS	Large projects, game development	Handles large binary files better
CVS	Centralized VCS	Legacy systems	Older and less powerful than Git
Fossil	Distributed VCS	Small projects	Built-in bug tracking and wiki
Bazaar	Distributed VCS	Beginner-friendly DVCS	Less popular, fewer updates
Plastic SCM	Distributed / Centralized VCS	Enterprise & game development	Better GUI and branching support