

GitHub Fundamentals

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Objectives

GitHub Repository

GitHub Codespaces

GitHub Pull Requests

GitHub Templates

GitHub Releases / Tag

GitHub Issues

GitHub Actions

GitHub Wikis

GitHub Pages

GitHub Advanced Search

CI/CD

Docker

Git

Markdown

Microservices

Free Software

Open Source

GitHub is your CV







94+ million Developers



200+ million Repositories







How did we arrived here?

Unix 1970 AT&T Bell Labs

GNU 1983 GNU Project

GCC 1987 GCC + Libs

GPL 1989 4 Freedoms

Linux Kernel 1991 Linux Kernel

Open Source 1998 Netscape

GIT 2005 BitKeeper

GitHub 2008 Logical Awesome LLC

2021





Free Software & Open Source



Richard Stallman



Bruce Perens



What does "free software" mean?

User has freedom to:

- . Run the program as you wish, for any purpose.
- . Study how the program works and change it, so it does your computing as you wish.
- . Redistribute copies so you can help others.
- . **Distribute** copies of your modified versions to others.

Access to the source code is a precondition for this!

https://www.gnu.org/philosophy/free-sw.en.html





The software is:

- Redistributed for free.
- . The source code should be **publicly available**.
- The software can be modified and distributed in a different format from the original software.
- . The software should **not discriminate against persons or groups.**
- The software should **not restrict the usage of other software.**

https://opensource.org/osd





Free Software

Social movement.

Free software focus on the user's freedom to use the program, to modify it, and to share it.



Open source

Open source is a development methodology.

Open-source focus on the availability of the source code and the ability to modify and share it.







Is Public repository open source?

Public # Open Source

Anyone can view and fork your public project, but your work comes with no permissions.

What if you don't apply an open source license?

Everybody who contributes to your project also becomes an exclusive copyright holder of their work. That means nobody can use, copy, distribute, or modify their contributions – and that "nobody" includes you.

If you want others to use, distribute, modify, or contribute back to your project you need to include an open source license.

What is a software license?

An open source license is a legal contract between the author of the software and the user of a software. An open source license states what the user is permitted to do with the software, their obligations, and what they cannot do.





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- Etc.

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