The Evolution of Open Source at the Linux Foundation

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What is open source software?

Open source software (OSS) is a type of computer software in which source code is released under a license in which the intellectual property holder grants recipients the rights to study, use, change, sell and distribute the software to anyone and for any purpose. Open source software may be developed in a collaborative public manner. Open source software is a prominent example of open collaboration.

Adapted from: https://en.wikipedia.org/wiki/Open-source_software
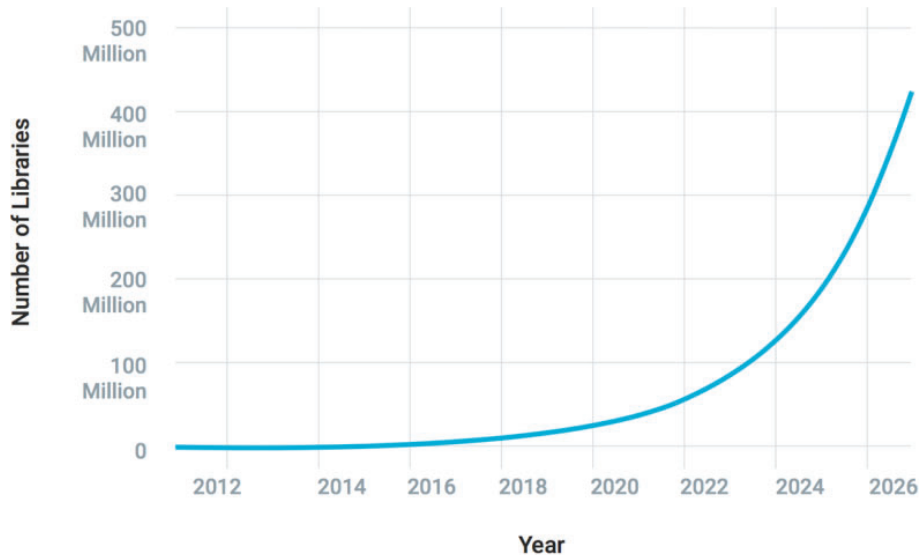
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Open source evolved with decades of systems evolution to address the needs of developers, admins and users

	Mainframe Programs	UNIX	Free Software "GNU is Not UNIX"	Linux	"LAMP" Stack	Open Source is the norm
Systems Trend	Centralized, monolithic systems	Modular software on distributed systems	Free software revolution against proprietary UNIX	GNU/Linux platform wins commercial ecosystem support	FOSS leaps to server middleware	FOSS becomes the core of software
	1955	1970's	1983	1991	1998	2005+
Key Issues	Limited access, slow evolution	Fragmented proprietary systems	Social movement thrived but incomplete and limited adoption	"Proprietary vs FOSS" FUD	"Proprietary vs FOSS" FUD v2.0	Sustainability of the core projects
Business model trend enabled	System and HW support	Volume SW licensing	Self support	SW support subscription	Open core and new business models	Cloud service model

Open Source is on an exponential growth curve, making it readily accessible to developers building production-ready systems
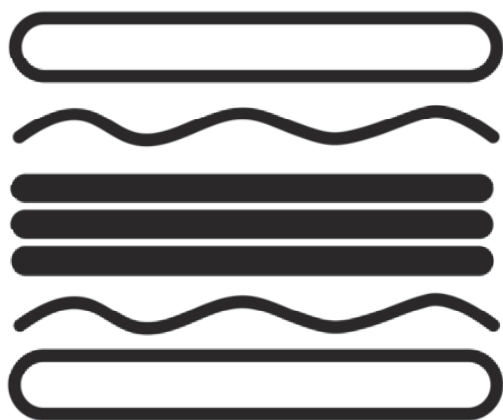

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https://www.sourceclear.com/resources/the-busy-managers-guide-to-open-source-security/chapter1/

[:] SourceClear

Today open source generally comprises 80-90% of a modern system's total codebase

Use Open Source
Libraries to Solve Problems
Open Source Code (~70%)

Write Custom Code
Custom Code (~10%)

Choose a Framework
Open Source Code (~20%)

5

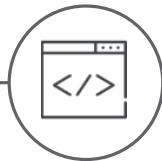# We all see the open source ecosystem is still accelerating

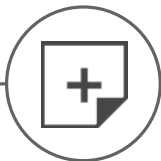**31M+**
Open Source
Developers
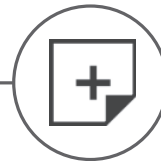
41B+
Lines of Code

10,000+
New Versions
per Day

96M+
Repositories on
GitHub

1,100
New Projects a
Day

6

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Also available as part of the eCourse
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First appeared as part of the conference materials for the
25th Annual Advanced Patent Law Institute session
"Increasing Innovation and Transforming Industries through Open Source"