

# The Vitality of Open Source Software

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**Abstract:** *Open Source Software (OSS) is a cornerstone of modern technology, embodying principles of collaboration, transparency, and accessibility. This article explores the rich history, core principles, and significant impact of open source software across various domains. From its inception in the early days of computing to its current role in shaping modern computing paradigms, we delve into the dynamics that make OSS a vibrant ecosystem. Through case studies, discussions on challenges, and prospects for the future, we highlight the enduring vitality of open source software.*

**Keywords:** Open Source Software(OSS), Open Source Initiative(OSI), GitHub, Free Software Foundation(FSF), Community, Apache Software Foundation(ASF), GNU General Public License(GPL).

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