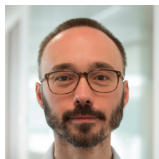# Stefano "Zack" Zacchiroli / Software Heritage

Academia

- Professor of Computer Science at Polytechnic Institute of Paris
- Research: digital commons, software engineering (empirical, FOSS), diversity (gender, geography), supply chain

Free/Open Source Software (FOSS)

- 3x Debian Project Leader
- Open Source Initiative board
- Reproducible Builds
- Software Heritage founder & CTO

Collect, preserve forever, and make publicly available the entire body of software, in the preferred form for making modifications to it.

- Started by UNESCO and Inria in 2015
- Archive of source code & VCS history
- Coverage: 200 M projects — major forges (GitHub, GitLab.com, …), Linux distros, package manager repositories
- Use cases: **cultural** preservation, large-scale software **research**, source code tracking for the IT **industry**

OSS Sustainability Forum — my interests at this forum

General: how Software Heritage can help [your] FOSS sustainability research.

Research topics

- FOSS **sustainability beyond for-profit** business models — e.g., the role of non-profits, researchers, civil servants, public bodies in general.
- FOSS **phylogenetics**: identify project "rebirths" (as a whole or of their sub-parts) in unexpected places (e.g., exogenous forks across forges).
- **Human aspects**: empirical investigations of the impact of diversity on project "health" (FSVO).

Modes of engagement

- Research collaboration, seminars, visits
- Joint projects (not necessarily grant-based)
- Student co-mentorship (master, PhD, postdocs)

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