



# OPEN SCIENCE NEEDS A UNIVERSAL SOFTWARE ARCHIVE: ENTER SOFTWARE HERITAGE

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le 23 avril 2019 15h30

ENS Rennes, Salle du conseil  
[Plan d'accès](#)

Intervention de **Roberto Di Cosmo**, professeur, Inria et Université Paris Diderot, Initiative **Software Heritage**, dans le cadre des séminaires du département Informatique et télécommunications.



Software is at the heart of our digital society and embodies a growing part of our scientific, technical and organisational knowledge.

Software Heritage is an open non-profit initiative whose mission is to ensure that this precious body of knowledge will be preserved over time and made available to all.

We do this for multiple reasons. To preserve the scientific and technological knowledge embedded in software source code. To allow better software development and reuse for society and industry. To foster better science, building the infrastructure for preserving, sharing and referencing research software, a stepping stone for reproducibility, and a necessary complement to Open Access.

We do this now, because we are at a turning point: the founding fathers are still around, and willing to contribute their knowledge, but only for a limited time. And we face the risk of massive lossage of source code developed by the Free and Open Source community, with code hosting sites that shut down when their popularity decreases.

Software Heritage archives already more than 5 billion unique source code files, spanning more than 85 million projects, with their full development history.

Handling this gigantic data set is a humbling undertaking, and requires novel approaches to store and query it in a way that allows to cope with the growth of collaborative software development. In this talk, we will highlight the new challenges and opportunities that Software Heritage brings up.

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## THÉMATIQUE(S)

Formation, Recherche - Valorisation

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# CONTACT

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Mise à jour le 16 avril 2019

## À LIRE AUSSI



Séminaire de Claire Vernade



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