

File standards for large multidimensional arrays : a bioimaging story

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Amphithéâtre SOLEIL

Modern bioimaging data is extremely rich - but also extremely large. The constant flow of novel techniques for acquisition and advanced instruments results in datasets that routinely exceed the capacity of local memory, standard file systems, and traditional analysis workflows. In this talk, we will discuss the evolution of open-source infrastructure designed to meet this challenge, from early efforts to standardize microscopy metadata, to server-based platforms for managing and sharing data, to cloud-native formats that support scalable storage and computation. It's a story of technical progress, but also of community-building, evolving standards, and an ongoing effort to ensure that valuable biological data remains usable across disciplines, platforms, and time. As bioimaging converges with other data-intensive fields, the lessons from this journey may resonate more widely, for any situation where data no longer "fits," and where infrastructure must rise to meet it.



Pause café

SEMINAIRE

Formalités d'entrée : accès libre dans l'amphi du pavillon d'Accueil.

Si la manifestation a lieu dans le Grand Amphi SOLEIL du Bâtiment Central merci de vous munir d'une pièce d'identité (à échanger à l'accueil contre un badge d'accès).

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