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Metadata considerations in research tool design to achieve vertical interoperability

Tuesday 5 November 2024 09:45 (20 minutes)

RSpace is an open-source platform that supports researchers in the active research phase to plan, conduct, and document their work, and thereby make their research more robust and FAIR (Findable, Accessible, Interoperable, Reproducible). Interoperability with tools and services used by researchers throughout the research lifecycle is a fundamental element of RSpace's development philosophy. This interoperability is crucial for enabling efficient workflows and seamless connections between the different phases of the research process. Here, metadata plays a key role in facilitating the flow of information and data between diverse systems and applications used by researchers.

In this presentation, we will explore the opportunities and challenges of metadata in achieving vertical interoperability between tools and services in the design and development of research tools like RSpace. We will report on RSpace's metadata vision and opportunities to address interoperability challenges for better integration with complementary tools and services. The presentation will delve into the specifics of RSpace's metadata approach, highlighting challenges faced and strategies being employed to implement this vision in collaboration with the open-source and research data management community. This includes discussions around metadata standards, typing approaches, controlled vocabularies, the development of APIs and other integration mechanisms, such as RO-Crates, to facilitate seamless data exchange and tool interoperability.

In addition, please add 3 to 5 keywords.

Vertical Interoperability, Research Tools, FAIR data, Metadata management

Please specify "other"

For whom will your contribution be of most interest?

Data professionals and stewards

Please assign yourself (presenting author) to one of the following groups.

other (please specify)

Please specify "other"

Tool provider

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Session Classification: Session C2

Track Classification: Connecting research data: 4. Metadata annotation and management

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