FAIR Digital Object Ecosystem Testbed: Facilitating FAIR Digital Object usage

An ecosystem for integration testing and demonstrating FAIR Digital Object handling.

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Up to 80% of research time is dedicated to data pre-processing and reuse. Finding, accessing, reusing & making interoperable is difficult. Many of those tasks could be automated, if the necessary information were available.

The FAIR principles facilitate reuse of research data. FAIR Digital Objects are representations of research data, consisting at least of a persistent ID (PID) and a record containing machine-actionable information about the research (meta-)data.

Testbed: set of services to test the integration of all required services and to check feasibility.

- Easy to set up for every-body on everyday computers using docker containers.
- Implementing generic use cases like creating, updating, retrieving and searching PIDs.
- Used for identification of gaps in specifications and concepts, and for demonstrating feasibility.

Identified gaps under examination:
- Unspecified types:
  - How to improve machine-actionability?
- Rules for (generic) profiles:
  - Known structure vs flexibility
- Flexible communication:
  - Notifications about updates and indexing

The testbed is in constant development. We are inviting you to try it out and give feedback! For example via e-mail or Github:

Download the testbed now.
https://github.com/kit-data-manager/testbed4inf

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