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FAIR EVA (Evaluator, Validator & Advisor) and its Plugin System

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FAIR EVA is a tool that allows checking the level of adoption of the FAIR principles for digital objects. It provides an API for querying via a persistent identifier and a web interface to interpret the offered results. These results assess, based on a series of indicators and automated technical tests, whether certain requirements are met. Additionally, FAIR EVA not only aims to evaluate and validate digital objects and their level of compliance with the FAIR principles, but it also intends to help data producers improve the characteristics of their published objects through a series of tips.

The diversity of repository systems and data portals means that, technically, the way data and metadata are accessed varies significantly. Although there are interoperability solutions like OAI-PMH or Signposting, certain indicators require a higher level of technical detail, such as those related to metadata standards or formats specific to scientific communities. Moreover, the FAIR principles mainly focus on metadata, and data quality is only superficially assessed.

To address this issue, FAIR EVA is designed modularly and, through its plugin system, can connect with various repositories or data portals with very different technical characteristics. In general, FAIR EVA implements the indicators of the RDA FAIR Maturity Working Group but allows them to be replaced with others or even extended to perform quality tests and metrics for a specific domain. For instance, a plugin has been developed for GBIF (Global Biodiversity Information Facility) that evaluates the adoption level of the FAIR principles and extends the tests to check certain specific quality indices for biodiversity data.

The proposed demo aims to showcase the fundamental features of FAIR EVA, particularly how a plugin can be created and adapted for a specific community, extending the list of tests to assess other aspects of data quality.

FAIR EVA started to be developed under the context of EOSC-Synergy project, and it has released the second version this year. There are different plugins being developed for diverse communities: DT-GEO project for geosciences, AI4EOSC, SIESTA, etc.

Topic

Data innovations: Data Analytics, Sensitive Data/FAIR Data

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