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Building a FDO Profile registry with RO-Crate

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Abstract: FAIR Digital Objects give predictability to FAIR resources by having explicit types and profiles, e.g. to define which metadata vocabularies are used. For RO-Crate, part of the “Webby FDO” approach, we here present the building of a profile registry, where each profile is an FDO represented as its own Profile Crate, that gathers defining resources such as RDF Shapes and ontologies. These Profile FDOs are gathered in a browsable profile registry, populated by their PIDs. The RO-Crate community is in addition defining a uniform way to define vocabularies and their specialisation usage within the metadata that apply to a particular profile, which can be used to generate validation and interactive forms.

Keywords: Profile, vocabulary, FDO, RO-Crate, registry