

Meeting Notes: DFIG FAIR Digital Objects

Thursday, January 28 2021,

~~Meeting UTC 6:00 (postponed)~~

Meeting UTC 15:00

This document:

<https://docs.google.com/document/d/1bYMvx3ofIfvoqfWYax-sPfDqUYjx-Z5qaQT4xz8nQJk/>

Meeting room: <https://kit-lecture.zoom.us/j/64010304690>

Meeting ID: 640 1030 4690

Slides: <https://www.dropbox.com/s/wzh2v6knlpzzvq0/2021-02-25-ro-crate-fdo-FINAL.pptx?dl=0>

Summary of the session:

Project Share: **RO-Crate: A framework for packaging research products into FAIR Research Objects**

Presenters:

Carole Goble, The University of Manchester & ELIXIR-UK

Stian Soiland-Reyes, The University of Manchester, The University of Amsterdam & BioExcel

RO-Crate is a community effort to establish a lightweight approach to packaging research products (data, scripts, methods and so on) together and with their metadata.

At its heart RO-Crate is a practical way to aggregate files and/or any URI-addressable content, with contextual information to aid decisions about re-use. It uses off the shelf and developer familiar web technologies that make it machine and human readable and search engine friendly. This small step is a springboard to Digital Object exchange, access, preservation and reproducibility.

We will briefly present the motivation and approach of RO-Crate and give examples from cultural heritage and biosciences.

We will also present our preliminary investigations in using RO-Crate as a means of implementing FAIR Digital Objects as defined by the FDOF for the Natural History Digital Specimen Objects in the EU Synthesys+ project for the DISSCo ESFRI of Natural History digital collections.

<http://www.researchobject.org/ro-crate/>

Next meetings:

- Thursday, 25 March 2021

Meeting UTC 15:00:

Please sign in:

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Notes:

Carole/Stian's Slides:

<https://www.dropbox.com/s/wzh2v6knlpzzvq0/2021-02-25-ro-crate-fdo-FINAL.pptx?dl=0>

RO-Crate Specification: <https://www.researchobject.org/ro-crate/1.1/>

Q/A:

- Peter: How to extend vocabulary beyond schema.org, bring in domain-specific ontologies?
 - Quite important for us, two approaches:
 - 1) Already have ontology or vocabulary in some namespace - you probably know a bit about Linked Data already. We show how to extend the context
 - 2) You just have a list of words like "sentence" meaning how long to be in prison. We show how to make ad-hoc vocabulary and provide a lightweight Github mechanism for that
 - How to extend RO-Crate
<https://www.researchobject.org/ro-crate/1.1/appendix/jsonld.html#extending-ro-crate>
 - We can go even further with this to also show how to make specialized types, like we have already done [for workflows](#).

- Larry - RO-Crate profile is a sort of type that sets expectations on what else can be expected and what operations might be available. FDO does operations.
 - We think you are right. And although RO-Crate is itself passive and does not mandate particular operations, but different operations will be “enabled” depending on a profile - e.g. a Workflow RO-Crate becomes executable by sending it to a workflow engine.
- Milan: What to do about XML legacy metadata? Will be hard to transform to JSON-LD
 - Keep existing (often domain-specific) metadata formats as sidecar metadata files:
 - Example of BCO duality of metadata inside RO-Crate
 - <https://biocompute-objects.github.io/bco-ro-crate/tutorial/starting.html?highlight=conformsTo#skeleton-ro-crate>
 - <https://www.youtube.com/watch?v=nqFu0CykAGg> BCO RO-Crate talk
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