What is RO-Crate?

Resource aggregation (local & remote)
Rich context
Semantics
Citable

Addressable resources

📄

https://orcid.org/0000-0001-2345-6789

ID? Title? Description?

👩‍🔬👨‍🔬**Who created this data?**
📄**What parts does it have?**
📅**When?**
📑**What is it about?**
♻️**How can it be reused?**
🏗️**As part of which project?**
💰**Who funded it?**
⚒️**How was it made?**

Local Data -
Files

🔬 https://en.wikipedia.org/wiki/Scanning_electron_microscope

RO-Crate is method for describing a dataset as a digital object using a **single linked-data metadata document**

The dataset may contain any kind of data resource about **anything**, in **any format** as a file or URL

```
|-- Folder1/
|        |-- file1.this
|        |-- file2.that
|-- Folder2/
|         -- file1.this
|        |-- file2.that
|-2021-04-08 07.58.17.jpg
```

```
{
     "@id": "2021-04-08 07.58.17.jpg",
     "@type": "File",
     "contentSize": 3271409,
     "dateModified": "2021-04-08T07:58:17+10:00",
     "description": "",
     "encodingFormat": [
       {
         "@id":
"https://www.nationalarchives.gov.uk/PRONOM/x-fmt/391"
       },
       "image/jpeg"
     ],
     "name": "Cute puppy"
   },
```

Each resource can have a machine readable description in JSON-LD format

```
|-- Folder1/
|          |-- file1.this
|          |-- file2.that
|-- Folder2/
|          -- file1.this
|          |-- file2.that
|-2021-04-08 07.58.17.jpg
```


A human-readable description and preview can be in an HTML file that lives alongside the metadata

🏭 CreateAction 🏭
Date: 2021-04-01

🧑🏽‍🔬Agent

🔬instrument

🐥result

⚙️Software / workflow
Name: My Workflow
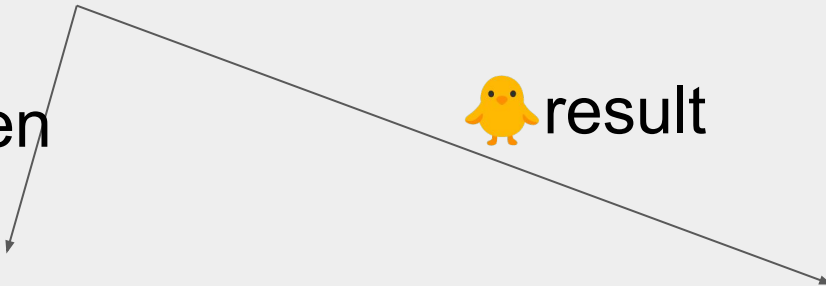URL: https://example.com/workflow/1235

📈Chart1

Provenance and workflow information can be included - to assist in data and research-process re-use

RO-Crate Digital Objects may be package g via Zip, Bagit and OCFL Objects