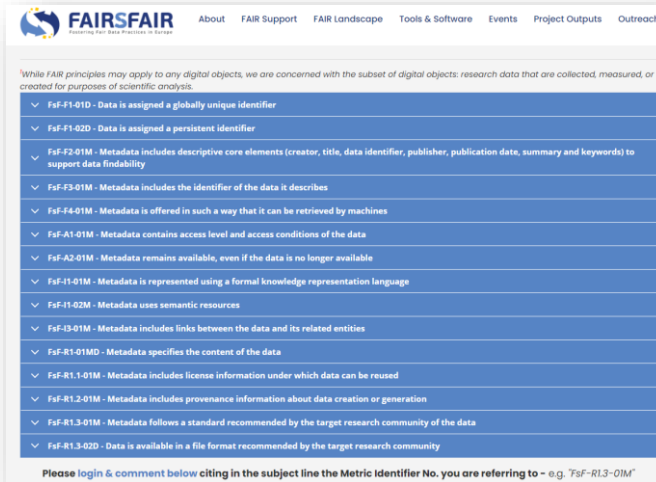


F-UJI : An Automated Tool for the Assessment and Improvement of the FAIRness of Research Data

Robert Huber & Anusuriya Devaraju



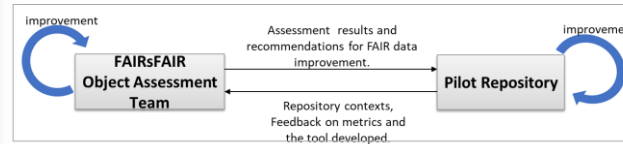
FAIRSFAR
Fostering Fair Data Practices in Europe

About FAIR Support FAIR Landscape Tools & Software Events Project Outputs Outreach

While FAIR principles may apply to any digital objects, we are concerned with the subset of digital objects: research data that are collected, measured, or created for purposes of scientific analysis.

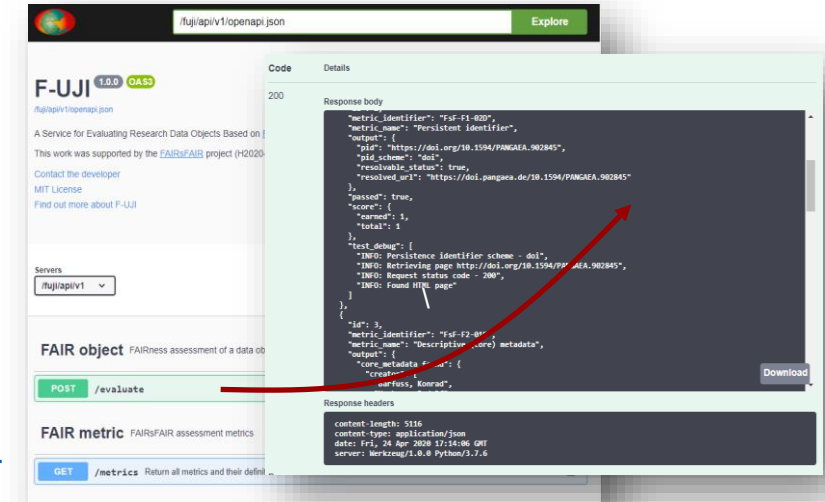
- ✓ Fsf-F1-01D - Data is assigned a globally unique identifier
- ✓ Fsf-F1-02D - Data is assigned a persistent identifier
- ✓ Fsf-F2-01M - Metadata includes descriptive core elements (creator, title, data identifier, publisher, publication date, summary and keywords) to support data findability
- ✓ Fsf-F3-01M - Metadata includes the identifier of the data it describes
- ✓ Fsf-F4-01M - Metadata is offered in such a way that it can be retrieved by machines
- ✓ Fsf-A1-01M - Metadata contains access level and access conditions of the data
- ✓ Fsf-A2-01M - Metadata remains available, even if the data is no longer available
- ✓ Fsf-I1-01M - Metadata is represented using a formal knowledge representation language
- ✓ Fsf-I1-02M - Metadata uses semantic resources
- ✓ Fsf-I3-01M - Metadata includes links between the data and its related entities
- ✓ Fsf-R1-01MD - Metadata specifies the content of the data
- ✓ Fsf-R1-1-01M - Metadata includes license information under which data can be reused
- ✓ Fsf-R1-2-01M - Metadata includes provenance information about data creation or generation
- ✓ Fsf-R1-3-01M - Metadata follows a standard recommended by the target research community of the data
- ✓ Fsf-R1-3-02D - Data is available in a file format recommended by the target research community

Please login & comment below citing in the subject line the Metric Identifier No. you are referring to - e.g. "Fsf-R1-3-01M"



<https://github.com/pangaea-data-publisher/fuji>

<https://www.f-uji.net>



F-UJI 1.0.0 OAS3

API endpoint: /fujiapi/v1/openapi.json

POST /evaluate

Response body:

```

{
  "metric_identifier": "Fsf-F1-01D",
  "metric_name": "Persistent identifier",
  "output": {
    "id": "https://doi.org/10.5194/PANGAEA.902845",
    "pid_scheme": "doi",
    "resolvable_status": true,
    "resolved_url": "https://doi.pangaea.de/10.5194/PANGAEA.902845"
  },
  "passed": true,
  "score": {
    "earned": 1,
    "total": 1
  },
  "test_debug": {
    "INFO: Persistence Identifier scheme - doi",
    "INFO: Retrieving page http://doi.org/10.5194/PANGAEA.902845",
    "INFO: Request status code - 200",
    "INFO: Found HTML page"
  },
  "id": 1,
  "metric_identifier": "Fsf-F2-01M",
  "metric_name": "Descriptive core metadata",
  "output": {
    "core_metadata": {
      "creator": "Marquardt, Konrad"
    }
  }
}
  
```

Response headers:

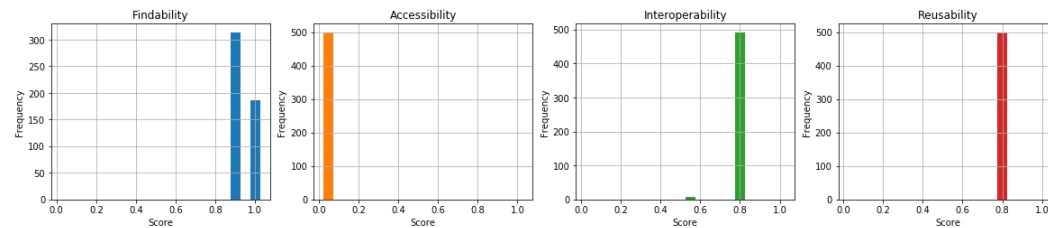
```

content-length: 516
content-type: application/json
date: Fri, 24 Apr 2020 17:14:06 GMT
server: Werkzeug/1.0.0 Python/3.7.6
  
```

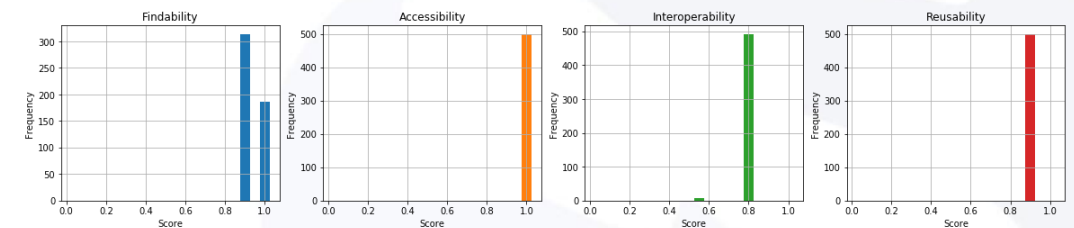
Metrics

FAIR assessment service

FAIR Scores of PANGAEA Datasets By Principle (Before Improvement, n=500)



FAIR Scores of PANGAEA Datasets By Principle (After Improvement, n=500)



Improving FAIRness

