

## FAIR Metric FM-F2

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<i>FIELD</i>	<i>DESCRIPTION</i>
Metric Identifier	FM-F2: <a href="https://purl.org/fair-metrics/FM_F2">https://purl.org/fair-metrics/FM_F2</a>
Metric Name	Machine-readability of metadata
To which principle does it apply?	F2 - Data are described with rich metadata
What is being measured?	The availability of machine-readable metadata that describes a digital resource.
Why should we measure it?	This metric <i>does not</i> attempt to measure (or even define) "Richness" - this will be defined in a future Metric. This metric is intended to test the format of the metadata - machine readability of metadata makes it possible to optimize discovery. For instance, Web search engines suggest the use of particular structured metadata elements to optimize search. Thus, the machine-readability aspect can help people and machines find a digital resource of interest.
What must be provided?	A URL to a document that contains machine-readable metadata for the digital resource. Furthermore, the file format must be specified.
How do we measure it?	HTTP GET on the metadata URL. A response of [a 200,202,203 or 206 HTTP response after resolving all and any prior redirects. e.g. 301 -> 302 -> 200 OK] indicates that there is indeed a document. The second URL should resolve to the record of a registered file format (e.g. DCAT, DICOM, schema.org etc.) in a registry like FAIRsharing. Future enhancements to FAIRSharing may include tags that indicate whether or not a given file format is generally-agreed to be machine-readable
What is a valid result?	Machine-readable or Machine-not-readable
For which digital resource(s) is this relevant?	All
Examples of their application across types of digital resource	<p>This URL can resolve to:</p> <ul style="list-style-type: none"> <li>- A record in a metadata registry relevant to your digital object (e.g. FAIRsharing.org, FAIR Data Point, smartAPI editor)</li> <li>- Your metadata on an HTML web page using schema.org</li> <li>- A FAIR Accessor. ....</li> </ul> <p>Semanticscience Integrated Ontology :  <a href="http://semanticscience.org/ontology/sio.owl">http://semanticscience.org/ontology/sio.owl</a>  <a href="https://biosharing.org/bsg-s002686">https://biosharing.org/bsg-s002686</a></p> <p>Example of a DANS metadata-record of an archived dataset: <a href="https://easy.dans.knaw.nl/ui/datasets/id/easy-dataset:67859/tab/1">https://easy.dans.knaw.nl/ui/datasets/id/easy-dataset:67859/tab/1</a></p> <p>smartAPI's API metadata:  <a href="https://raw.githubusercontent.com/WebsmartAPI/smartAPI/master/docs/iodocs/smartapi.json">https://raw.githubusercontent.com/WebsmartAPI/smartAPI/master/docs/iodocs/smartapi.json</a></p> <p>Metadata record of a database: - GEO  <a href="https://fairsharing.org/biodbcore-000441">https://fairsharing.org/biodbcore-000441</a></p> <p>Metadata record of a standard: - RDF  <a href="https://fairsharing.org/bsg-s000559">https://fairsharing.org/bsg-s000559</a></p> <p>Non-article Published Work - my Zenodo Deposit for polyA (<a href="https://doi.org/10.5281/zenodo.47641">https://doi.org/10.5281/zenodo.47641</a>)</p> <p>- myExperiment Workflow</p>