

This document is associated with the following GitHub repository and we refer to it for background:
<https://github.com/SPARC-FAIR-Codeathon/KnowMore>.

The table below assesses the FAIRness of KnowMore against the FAIR Principles established for research software*.

*Lamprecht, Anna-Lena, Leyla Garcia, Mateusz Kuzak, Carlos Martinez, Ricardo Arcila, Eva Martin Del Pico, Victoria Dominguez Del Angel et al. "Towards FAIR principles for research software." *Data Science* 3, no. 1 (2020): 37-59.

FAIR for data ID	FAIR for software	Operation	FAIRness of KnowMore
F1	(Meta)data are assigned a globally unique and persistent identifier.	Software and its associated metadata have a global, unique and persistent identifier for each released version.	The GitHub repository of KnowMore is linked to Zenodo such that for each release of KnowMore on GitHub, the repository is archived on Zenodo with a unique DOI.
F2	Data are described with rich metadata.	Software is described with rich metadata.	Description, Keywords, and a detailed description of the project is maintained on the GitHub repository
F3	Metadata clearly and explicitly include the identifier of the data it describes.	Metadata clearly and explicitly include identifiers for all the versions of the software it describes.	A list of Zenodo release and their DOIs are maintained in the Readme of the Repository
F4	(Meta)data are registered or indexed in a searchable resource.	Software and its associated metadata are included in a searchable software registry.	Our metadata (c.f. above) is searchable through GitHub and Zenodo.
A1	(Meta)data are retrievable by their identifier using a standardized communications protocol.	Software and its associated metadata are accessible by their identifier using a standardized communications protocol.	A DOI is associated with each release of KnowMore.
A1.1	The protocol is open, free, and universally implementable.	The protocol is open, free, and universally implementable.	The protocol for using our source code is described in our public GitHub repository and archived on Zenodo for each release.

A1.2	The protocol allows for an authentication and authorization procedure, where necessary.	The protocol allows for an authentication and authorization procedure, where necessary.	The protocol describes all required tools and authorization. It especially provides information about obtaining the environment variables that were shared only with the participant of the Codeathon but are necessary to run certain source code of KnowMore.
A2	Metadata are accessible, even when the data are no longer available.	Software metadata are accessible, even when the software is no longer available.	The metadata is archived indefinitely on Zenodo with each release
I1	(Meta)data use a formal, accessible, shared, and broadly applicable language for knowledge representation.	Software and its associated metadata use a formal, accessible, shared and broadly applicable language to facilitate machine readability and data exchange.	All our code is written using open-source program languages and following standard syntax. Keywords follow standard GitHub recommended vocabulary
I2	(Meta)data use vocabularies that follow FAIR principles.	–	NA
I2S.1	–	Software and its associated metadata are formally described using controlled vocabularies that follow the FAIR principles.	Controlled vocabulary is used according to the practice of the field.
I2S.2	–	Software use and produce data in types and formats that are formally described using controlled vocabularies that follow the FAIR principles.	Output of Knowmore are in json and xlsx formats.
I4S	–	Software dependencies are documented and mechanisms to access them exist.	Necessary files are included to recreate development environments with all dependencies
R1	(Meta)data are richly described with a plurality of accurate and relevant attributes.	Software and its associated metadata are richly described with a plurality of accurate and relevant attributes.	Multiple metadata files (Readme, keywords, etc.) are used.

R1.1	(Meta)data are released with a clear and accessible data usage license.	Software and its associated metadata have independent, clear and accessible usage licenses compatible with the software dependencies.	KnowMore is shared under the open and permissive MIT license. All the dependencies are MIT-compatible.
R1.2	(Meta)data are associated with detailed provenance.	Software metadata include detailed provenance, detail level should be community agreed.	Our GitHub documentation includes detailed provenance.
R1.3	(Meta)data meet domain-relevant community standards.	Software metadata and documentation meet domain-relevant community standards.	The documentation has been reviewed and approved to be in-live with community standards by the DRC mentors during the Codeathon