

Sparc-flow: A Python tool to create tools and workflows for processing SPARC datasets in accordance with FAIR principles

This document demonstrates how Sparc-flow repository of the 2023 Sparc codeathon applies the FAIRness [1] standards. The repository is located at <https://github.com/SPARC-FAIR-Codeathon/sparc-flow>.

The table below demonstrates features of Sparc-flow against the FAIR Principles established for research softwares.

FAIRness level	Definition	Sparc-flow embedding
Findability F1	Globally unique and persistent identifier	On Github and Zenodo
Findability F2	Description with rich metadata & Description fields added	Various description fields added
Findability F3	Metadata clearly and explicitly include the identifier of the data	Readme updated with all details
Accessibility A1	Retrievability using a standardized communications protocol	DOI is available through Zenodo (https://zenodo.org/record/XXXX)
Interoperability I1	Protocol is open, free, and universally implementable	Sparc-flow is Public on Github
Interoperability I2	(meta)data use vocabularies that follow FAIR principles	To be completed
Interoperability I3	qualified references to other (meta)data	To be completed
Reusability R1	Described with a plurality of accurate and relevant attributes	To be completed
Reusability R1.1	Clear and accessible data usage license	To be completed

References:

[1] Wilkinson, M., Dumontier, M., Aalbersberg, I. et al. The FAIR Guiding Principles for scientific data management and stewardship. *Sci Data* 3, 160018 (2016).