



*Research Software Alliance*



RESEARCH DATA ALLIANCE



The Future of Research Communications and e-Scholarship

# Toward defining and implementing FAIR for research software

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research data sharing without barriers  
[rd-alliance.org](http://rd-alliance.org)

# Background

Copy of slides: [tinyurl.com/y59mtya4](https://tinyurl.com/y59mtya4)

- FAIR Principles, at a high level, are intended to apply to all research objects; both those used in research and those that are research outputs
- However, the details depend on the type of research object
  - Software is not (just) data
- We focus on the adaptation and adoption of the FAIR principles to research software

# Some previous FAIR software initiatives/outcomes

“Applying FAIR Principles to Software” at the 2017 Workshop on Sustainable Software Sustainability (WOSS17)

“Sharing Your Software – What is FAIR?” at the 2018 American Geophysical Union (AGU) Fall Meeting

“FAIR Software” Birds of a Feather meeting at deRSE 2019

Towards FAIR principles for research software 2019 DOI: [10.3233/DS-190026](https://doi.org/10.3233/DS-190026)

[From FAIR research data toward FAIR and open research software](#)

“[Making Software FAIR](#)” at the DTL Communities@Work 2018 Conference

Top 10 FAIR Data & Software Global Sprint, including “[10 easy things to make your software FAIR](#)” 2019

“Five recommendations for FAIR software” at NL-RSE 2019

FAIR Computational Workflows 2020 DOI: [10.1162/dint\\_a\\_00033](https://doi.org/10.1162/dint_a_00033)

Lorentz Workshop 9-13 March 2020 ([Automated Workflow Composition in the Life Sciences](#))

“[FAIRness assessment for software](#)” at the 2018 DBCLS/NBDC BioHackathon

“FAIR principles for Software” at 2019 Workshop on Sustainable Software Sustainability (WOSS19)

TIB Training workshops on FAIR Data and Software [2018](#) - [2019](#)

FAIRsFAIR T2.4: FAIR assessment for research software

[BRDI NAS Washington 16-17 March 2020](#)

<https://www.rd-alliance.org/fair-principles-research-software>

<https://www.rd-alliance.org/group/software-source-code-ig/wiki/fair4software-reading-materials>

# FAIR4RS Initiative

- FAIR 4 Research Software Working group #FAIR4RS
- Jointly convened as an RDA Working Group, FORCE11 Working Group, and Research Software Alliance (ReSA) Taskforce
- Will coordinate a range of existing community-led discussions on
  - Defining and effectively applying FAIR principles to research software
  - Achieving adoption of these principles

<https://www.rd-alliance.org/group/fair-4-research-software-fair4rs-wg/case-statement/fair-research-software-wg-case-statement>

# Aims of FAIR4RS WG

FAIR4RS will deliver:

- A document developed with community support defining FAIR principles for research software - 6 months
- A document providing guidelines on how to apply the FAIR principles for research software (based on existing frameworks) - 12 months
- A document summarising the definition of the FAIR principles for research software, implementation guidelines and adoption examples - 18 months

# Subgroups

July-October 2020 - you can still join!

1. [A fresh look at FAIR for Research Software](#): examine FAIR principles in context of research software from scratch, not from existing work
2. [FAIR work in other contexts](#): Identify commonalities and differences between different FAIR use cases to gain insights for definition of FAIR principles for research software & guidelines for implementation
3. [Research software definition](#): review existing definitions and will specify the scope for the WG outputs
4. [New research related to FAIR Software](#): Review recent research and studies around FAIR software

# FAIR4RS Roadmap

Complementary project to map existing/possible FAIR software projects in:

1. Indicators, metrics, maturity models, certification
2. FAIR software services such as repositories
3. Curriculums and competence centres
4. Career profiles and reward structures
5. Output Management Plans
6. Interoperability frameworks
7. Policy change

# Questions?

## How to get involved

Copy of slides: <https://tinyurl.com/y59mtya4>

Join the group [here](#) (after joining RDA, which is free)

Join subgroup via the link the to the group on the preceding pages

See recordings from our recent webinars [here](#) and [here](#).

Read minutes from the FAIR4RS group in the [GitHub repo](#)