



EOSC Symposium 2022

**Talk 3: Engaging data repositories in EOSC**


**Session: Engagement of research communities and service providers in EOSC**


Tuesday, November 15, 16:00 - 17:30



Speaker: [Nina Leonie Weisweiler](#)


DOI: <https://doi.org/10.5281/zenodo.7334302>

# re3data: Connected via EOSC Marketplace

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 EUROPEAN OPEN SCIENCE CLOUD

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 > Resources > Aggregators & Integrators > Aggregators & Integrators > Services > re3data - registry of research data repositories


## re3data - registry of research data repositories

re3data

Find research data repositories and their metadata on a global scale.


Organisation: **Karlsruhe Institute of Technology**

Provided by: **KIT - Library**

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ABOUT DETAILS REVIEWS (0)

re3data is a global registry of research data repositories that covers research data repositories from different academic disciplines. It includes repositories that enable permanent storage of and access to data sets to researchers, funding bodies, publishers, and scholarly institutions. re3data promotes a culture of sharing, increased access and better visibility of research data.

## SCIENTIFIC CATEGORISATION



# EU Projects with re3data participation supporting the EOSC

2019-2022:

Tools for finding and selecting **FAIR enabling repositories** to researchers and other stakeholders

Integration of repository information into **DataCite Commons**

- re3data as metadata source
- linking with other entities of the PID graph
- providing additional insights



**FAIRSFair**  
Fostering Fair Data Practices in Europe



Launched in Summer 2022:

Practical implementation of the FAIR principles across all domains through FAIR-enabling practices, tools and services.

More at: <https://fair-impact.eu/>

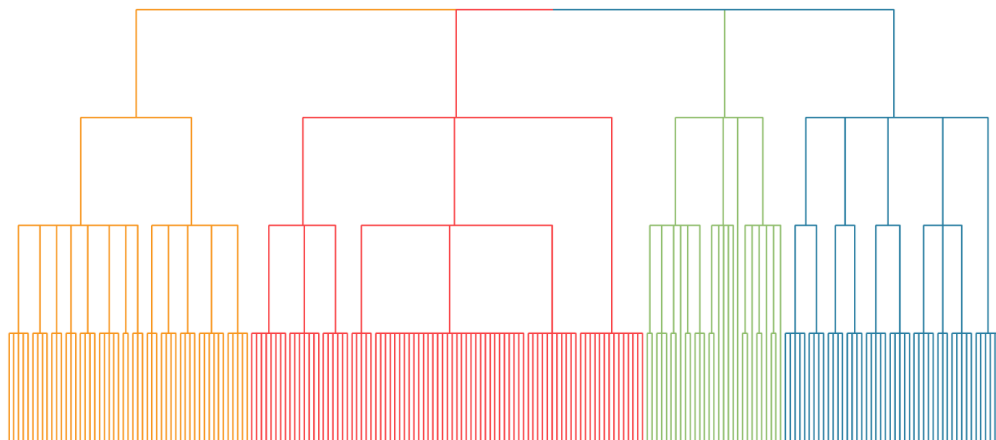
# Networks and integrations

re3data is a **central reference point and metadata source** for other service providers on the European and international level:

- [OpenAIRE's Open Science Observatory](#)
- [European Open Science Monitor](#)
- [F-UJI Automated FAIR Data Assessment Tool](#)
- [DARIAH-EU Data Deposit Recommendation Service](#)
- [DataCite Commons](#)
- and many others...

# Collaboration with EUDAT service B2FIND

re3data collaborates with the [B2FIND](#) team with the goal of harmonizing their subject classifications.



— 1 Humanities and Social Sciences — 2 Life Sciences — 3 Natural Sciences — 4 Engineering Sciences



See also:

<https://coref.project.re3data.org/blog/reviewing-the-subject-classification-in-re3data>

**Global Registry  
of Research Data  
Repositories**

**re3data.org**  
REGISTRY OF RESEARCH DATA REPOSITORIES

Search...

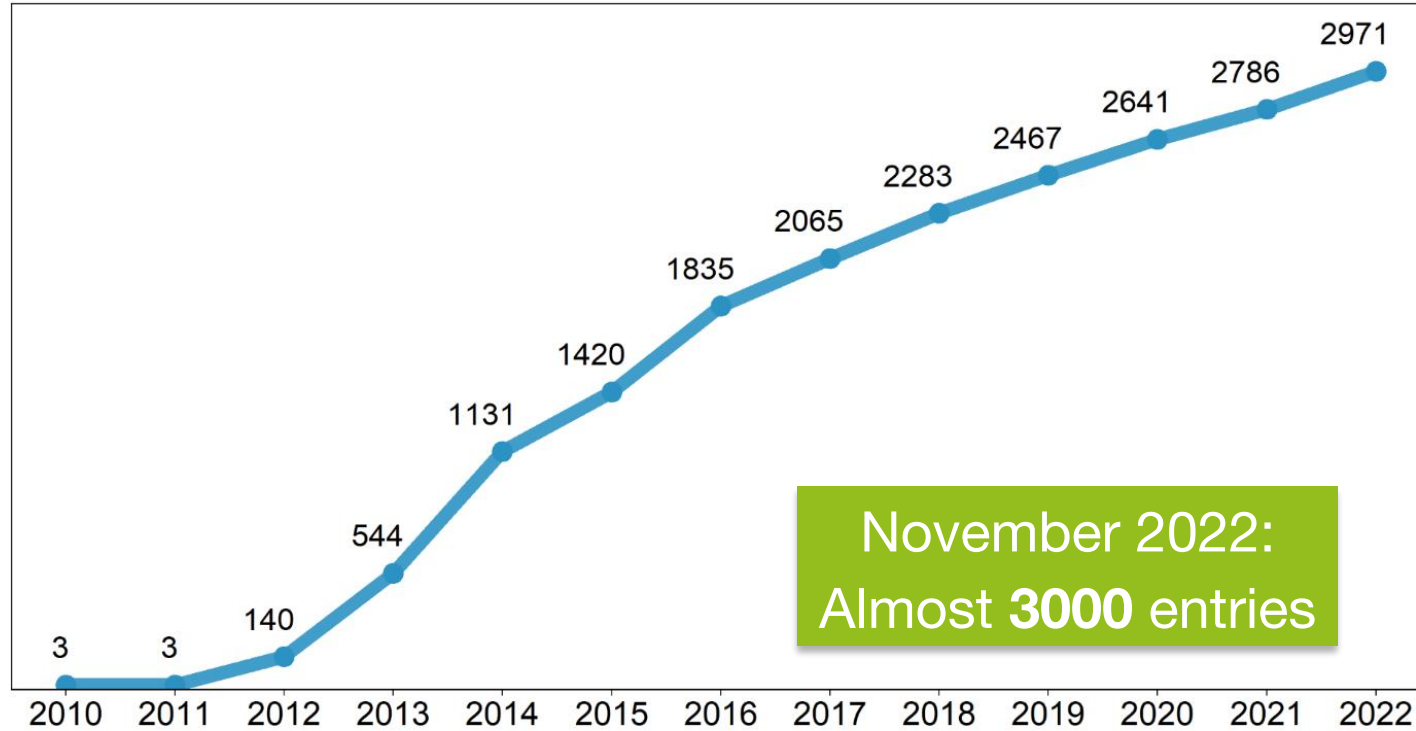
Search

across all  
**research  
disciplines**

... presents **repositories** for the **permanent storage** and **access** of research data sets to researchers, funding bodies, publishers and scholarly institutions.

...promotes a culture of **sharing, increased access and better visibility** of research data

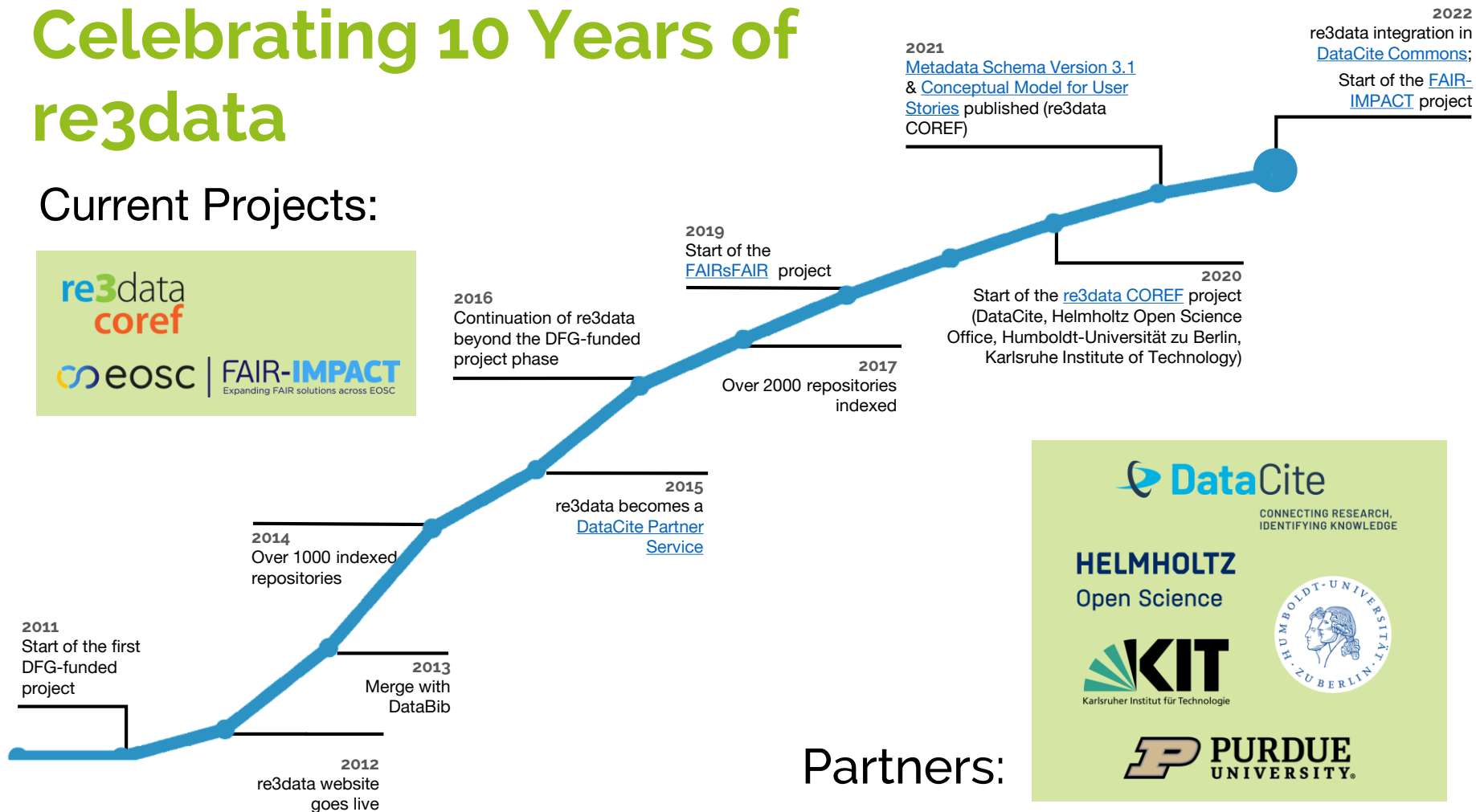
# Number of repositories indexed in re3data per year:



November 2022:  
Almost **3000** entries

# Celebrating 10 Years of re3data

## Current Projects:



## Partners:





# What is a “repository” in re3data?

- We refer to all re3data entries as “repositories”.
  - Repositories in re3data are defined as “[...] a subtype of a sustainable information infrastructure providing long-term storage of and access to research data.” ([Metadata Schema for the Description of Research Data Repositories](#), Version 3.1)
- The re3data registration policy is intentionally inclusive to cover a broad range of infrastructures for research

The screenshot displays the re3data.org interface for the repository 'Forschungsdatenzentrum im Kraftfahrt-Bundesamt'. The page includes a search bar, navigation links (Browse, Suggest, Resources, Contact), and repository details. The details are organized into sections: General, Institutions, Terms, and Standards. The 'General' section is active, showing the repository name, additional names, URL, and subject categories. The description provides context about the data, and the contact information is listed. At the bottom, there are links for 'Back to search', 'Submit a change request', and 'Get a badge', along with a citation for the record.

re3data.org Search Browse Suggest Resources Contact

Repository details

### Forschungsdatenzentrum im Kraftfahrt-Bundesamt

General Institutions Terms Standards

Name of repository **Forschungsdatenzentrum im Kraftfahrt-Bundesamt**

Additional name(s) FDZ im KBA

Repository URL [https://www.kba.de/DE/Statistik/Forschungsdatenzentrum/forschungsdatenzentrum\\_node.html](https://www.kba.de/DE/Statistik/Forschungsdatenzentrum/forschungsdatenzentrum_node.html)

Subject(s) **Traffic and Transport Systems, Logistics** **Systems Engineering**  
**Computer Science, Electrical and System Engineering** **Engineering Sciences**  
**Human Factors, Ergonomics, Human-Machine Systems**

Description The statistics pages of the Kraftfahrt-Bundesamt (KBA) provide an overview of official facts and figures relating to motor vehicles and their users. The data on this page are continuously updated. Publications generally appear as annual statistics. In addition to this, we provide monthly results relating to new registrations and changes of ownership in Germany, as well as information relating to road haulage with German vehicles The currently provisionally accredited research data center of the Kraftfahrt-Bundesamt extends the data portfolio of the official register data and initially provides anonymised microdata for access to the driving fitness register (FAER). Statistics published by the KBA are available exclusively in German.

Contact fdz@kba.de

Content type(s) **Standard office documents** **Plain text** **Scientific and statistical data formats**

Certificates and Standards **Rat für Sozial- und Wirtschaftsdaten**

Keyword(s) **Register of Driver Fitness - Fahrzeugsregister - FAER** **drivers** **driving licenses** **motor vehicles**  
**road haulage** **tachograph cards** Search with keyword 'driving licenses'

Repository type(s) disciplinary

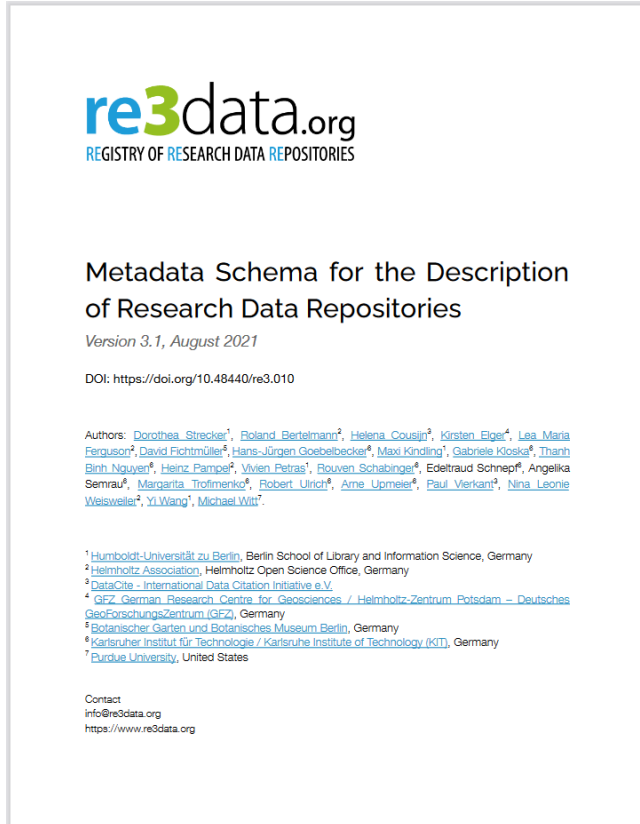
Research data repository language(s) German

Data and/or service provider data provider

[Back to search](#) [Submit a change request](#) [Get a badge](#)

Cite this re3data.org record:  
re3data.org: Forschungsdatenzentrum im Kraftfahrt-Bundesamt; editing status 2019-11-08; re3data.org - Registry of Research Data Repositories. <http://doi.org/10.17616/R31NUMNI> last accessed: 2022-10-26

# re3data Metadata Schema



**re3data.org**  
REGISTRY OF RESEARCH DATA REPOSITORIES

Metadata Schema for the Description  
of Research Data Repositories

Version 3.1, August 2021

DOI: <https://doi.org/10.48440/re3.010>

Authors: [Dorothea Strecker](#)<sup>1</sup>, [Roland Bertelmann](#)<sup>2</sup>, [Helena Cousijn](#)<sup>3</sup>, [Kirsten Elger](#)<sup>4</sup>, [Lea Maria Ferguson](#)<sup>5</sup>, [David Fichtmüller](#)<sup>6</sup>, [Hans-Jürgen Goebelbecker](#)<sup>6</sup>, [Maxi Knöding](#)<sup>6</sup>, [Gabriele Klosska](#)<sup>6</sup>, [Thanh Binh Nuyen](#)<sup>6</sup>, [Heinz Pampel](#)<sup>6</sup>, [Vivien Petras](#)<sup>6</sup>, [Blouwen Schabinger](#)<sup>6</sup>, [Edeltraud Schnepf](#)<sup>6</sup>, [Angelika Semrau](#)<sup>6</sup>, [Marqarta Trofimenko](#)<sup>6</sup>, [Robert Ulrich](#)<sup>6</sup>, [Arne Upmeyer](#)<sup>6</sup>, [Paul Verkanj](#)<sup>6</sup>, [Nina Leonie Weisweiler](#)<sup>6</sup>, [Yi Wang](#)<sup>7</sup>, [Michael Witt](#)<sup>7</sup>.

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<sup>2</sup>Helmholtz Association, Helmholtz Open Science Office, Germany  
<sup>3</sup>DataCite - International Data Citation Initiative e.V.  
<sup>4</sup>GFZ German Research Centre for Geosciences / Helmholtz-Zentrum Potsdam – Deutsches GeoForschungsZentrum (GFZ), Germany  
<sup>5</sup>Botanischer Garten und Botanisches Museum Berlin, Germany  
<sup>6</sup>Karlsruher Institut für Technologie / Karlsruhe Institute of Technology (KIT), Germany  
<sup>7</sup>Purdue University, United States

Contact  
[info@re3data.org](mailto:info@re3data.org)  
<https://www.re3data.org>

## 42 Properties on...

- General information
- Responsibilities
- Policies
- Legal aspects
- Technical standards
- Quality standards
- DOI for repository descriptions
- Since 2020: ROR IDs for institutions

## Version 3.1 of the Metadata Schema:

<https://www.re3data.org/schema>



# Input: Keeping records up-to-date

- Automated updates (e.g. CoreTrustSeal)
- Reviews by the editorial team
- Change requests:

Contact	<a href="https://nanohub.org/about/contact">https://nanohub.org/about/contact</a>
Content type(s)	<a href="#">Databases</a> <a href="#">Audiovisual data</a> <a href="#">Software applications</a> <a href="#">Standard office documents</a> <a href="#">other</a>
Keyword(s)	<a href="#">Nanomaterial Registry</a> <a href="#">nanoBIO</a> <a href="#">nanoscience</a> <a href="#">nanotechnology</a> <a href="#">simulation</a> <a href="#">thermalhub</a>
Persistent identifier(s) of the repository	RRID:SCR_013963 OMICS_27120
Repository size	6.139 resources
Repository type(s)	disciplinary
Mission statement for designated community	<a href="https://nanohub.org/about">https://nanohub.org/about</a>
Research data repository language(s)	English
Data and/or service provider	data provider service provider

[Back to search](#)

[Submit a change request](#)

## Submit a change request

Make changes to the properties that need an update. The editorial board will review the submitted record and put it online

General

**Repository name**

**Repository name language**

**Additional names**

**Text**

**Language**

**Repository url**

**Subjects**

**Name**

**Scheme**

# Output: Querying the re3data API with R

[https://github.com/re3data/using\\_the\\_re3data\\_API](https://github.com/re3data/using_the_re3data_API)

There are many conceivable use cases for re3data metadata.

In this GitHub repository, we provide examples for using the re3data API that can be adapted to fit other use cases.

The example use cases are implemented in R and Python using Jupyter Notebooks.

See also:

[https://coref.project.re3data.org/blog/using\\_the\\_re3data\\_api](https://coref.project.re3data.org/blog/using_the_re3data_api)

# Develop & enhance re3data: Current project



## Conceptual Service Model

- Embed the registry within the research community and infrastructure landscape to meet the emerging needs for a trusted repository reference.

## Metadata Schema

- Revision and enhancement of the re3data metadata schema for the description of research data repositories.

## Technical Infrastructure

- Implement new features and the updated metadata schema.
- Provide the necessary technical infrastructure and services.

## Quality & Transparency

- Conduct a comprehensive study on quality assurances at research data repositories to improve re3data metadata information.
- Improve re3data metadata quality, trust and transparency.

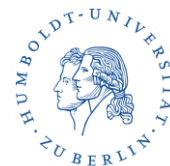
## Community Building

- Extensive outreach activities, networking and policy development.



DataCite

**HELMHOLTZ**  
Open Science



# Community engagement in re3data COREF

## Conceptual Service Model

- Stakeholder survey & workshop series: [Read more](#)

## Metadata Schema

- Public RFC process: [Read more](#)

## Technical Infrastructure

- Improvements & development in consultation with the community
- API use cases examples: [Read more](#)

## Quality & Transparency

- Survey on quality management at research data repositories & related workshop in collaboration with CoreTrustSeal: Check the [project blog](#) for updates!

## Community Building

- Extensive outreach activities: Blog, social media, mailings, events & workshops...

New study finds that the share of researchers who store data in research data repositories is still low...

**re3data is here to support change!**

**See tomorrow's Session "European Research Data Landscape (2021-2022)"**

Wednesday, Nov 16, 14:30 - 16:00 CET

# Join in!

Become a part of the EOSC network by registering your repository in re3data:

<https://www.re3data.org/suggest>

**re3data.org**  
REGISTRY OF RESEARCH DATA REPOSITORIES

**re3data.org**  
REGISTRY OF RESEARCH DATA REPOSITORIES

Any questions?



Stay in touch!

Web: [www.re3data.org](http://www.re3data.org)

Mail: [info@re3data.org](mailto:info@re3data.org)

Twitter: [@re3data](https://twitter.com/re3data)

DOI: <https://doi.org/10.5281/zenodo.7334302>



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