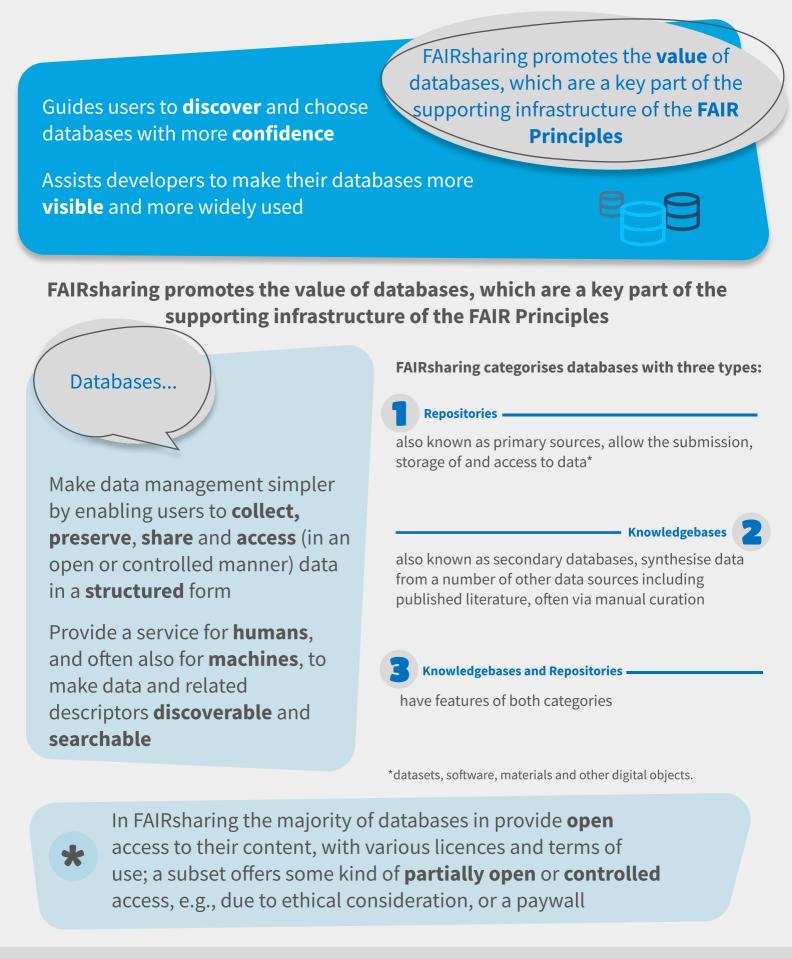
FAIRsharing content: databases overview

Keeping research data safe: for today and for the future



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Cite this: 10.5281/zenodo.7737842 🥶

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FAIRsharing provides a snapshot of the **dynamic landscape** of databases

Tracks their evolution

Illustrates relations with other databases

Displays their **implementation** of standards

Monitors their **adoption** in data policies and guidelines



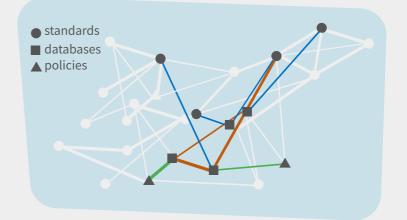
Be familiar with databases at a level appropriate for your needs, e.g.

Researchers should have a robust understanding of how to find the right database for accessing relevant data, selecting databases for a Data Management Plan (DMP), and storing their own research data.

Trainers, guidance and policy makers will be experienced in finding and accessing databases in order to provide examples and appropriate recommendations.

Tools and service developers, and data professionals have a strong grasp of databases as they may need to retrieve data from them to support research projects. FAIRsharing visualises dependencies relating to databases, e.g.,

- sharing data from a primary to a secondary database for analysis, data exchange
- sharing the same code base among databases built on the same software
- how databases *implement* standards and are *recommended by* policies





Navigating the database ecosystem is challenging, high volume of databases in some research areas reflects the dynamic nature of technologies, data types, and needs of the research communities Discovering a database with the correct combination of attributes for your needs can be difficult, and bear in mind that databases can be:

- **Project-related**: specific for and dependent on project lifespan and funds.
- Institutional: limited to the work of a particular institute
- National: focused on the country's research outputs
- Global: available generally for worldwide data
- Generalist: for all types of digital objects, from all disciplines
- Discipline-specific: for one or more research areas
- Data-specific: for one or more types of digital objects

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Scope/Research area: with high-level research Subject tags, e.g., *Neuroscience, Linguistics,* and *Subject Agnostic* (when applicable to all research areas). Domains define a complementary set of tags, e.g. those relevant to technologies or protocols, e.g., magnetic resonance imaging, literature mining.

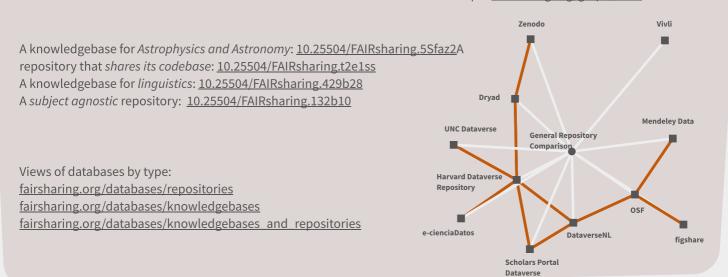
FAIRsharing displays the intended use of each database

Content Type: Domain tags indicating the type of data the database focuses on; Taxonomy is used to classify organisms, where relevant.

Ready when a resource is considered suitable for use
In development when a resource is being developed and may be used but may also be in a state of flux
Deprecated when the community no longer mandates its use. This status is curated jointly with an explanation and, where available, a link to the database that has superseded it, or been merged with it
Uncertain when curators cannot establish contact with the owners of a resource and believe a resource may have changed status

Examples

Collection of generalist repositories by the RDA Generalist Repository Comparison Chart Management Group List: <u>fairsharing.org/3541</u> Graph: <u>fairsharing.org/graph/3541</u>



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