

LOVE DATA WEEK

10-14 fevereiro 2025

RESEARCH DATA LITERACY IS DATA LITERACL



Research data literacy is an

important skill for researchers, librarians, and other information professionals. It is crucial in today's data-driven world for several reasons:

SIT IMPORTAN

- ***** Maximizes **efficiency** in the processes of decision-making;
- Helps anticipate trends as well as mitigate risks:
- **#**Gives a **competitive edge** by providing the knowledge and skills to use data strategically;
- ₩ It is an important tool to break down NPETENCES & SKILLS information and help educate the wide public.

TECHNICAL SKILLS

- **Extraction and preparation** (extract, clean, standardize and organise data) Analytics (turning data into insights)
- **Visualisation** (creating visual representations to effectively present data)
- Management (locate, access,

NON-TECHNICAL SKILLS

- Critical thinking (question) assumptions and identify biases) **Research** (gather, collect, and assess the validity of data) Communication (effectively
- present findings)
- organize and store data)
- **Data modeling** (applying advanced) statistical and analytic techniques)

Based on...

CATEGORIES OF DAY

- 拱 **Domain knowledge** (keeping up with the industry and latest trends) **Ethical considerations** (awareness of the implications and impact of collection and use

FORM	SOURCE	STABILITY	SENSITIVITY
Numeric; Text; Audiovisual; Models, code; Discipline- specific (FITS, CIF, FCS, BIDS).	Observational; Experimental; Simulation Data; Derived or Compiled.	Fixed datasets; Growing datasets; Revisable datasets.	Public; Private; Confidential; Data regulated by legislation.

Sources: ECIL

> <u>Gonzalez</u> <u>Soltero et al.</u> FAIR data <u>management:</u> <u>a framework for</u> fostering data <u>literacy in</u> <u>biomedical</u> <u>sciences</u> education. (2024). Martin, E. R., <u>(2014) "What is</u> Data Literacy?" <u>Journal of</u> <u>eScience</u> <u>Librarianship</u> <u>3(1): 6</u> NLM Data Glossary

Tableau

Challenges in implementing research data literacy include: 🗰 User resistance to new technology; 🕌 Skills gaps within teams; 🚢 Data silos in specific departments; 🐫 Need for robust data governance practices; Low reproducibility.

Low reproducibility in biomedical research is a significant issue, with major implications for scientific progress and the reliability of findings.

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To enhance data interoperability and promote transparency follow the FAIR principles!