

# Open Knowledge for a Sustainable Future: Research, Ethics, and Wikipedia

Week 5 — FAIR Principals - Multilingual and Ethical considerations

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# Roadmap

- 1 FAIR Data: Findable, Accessible, Interoperable, Reusable
- 2 CARE Principles for Indigenous and Community Data
- 3 Case Studies
- 4 Ethical Persuasive Writing and Statistical Honesty
- 5 When Results Surprise You
- 6 Writing for Different Audiences
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# Why FAIR Data?

- **Findable** — So that other researchers (and future you) can actually discover your data.  
*If no one can find it, it might as well not exist.*
- **Accessible** — So that once found, data can be retrieved easily and safely.  
*Access should be possible even years later, with clear rules if restrictions apply.*
- **Interoperable** — So that data from different projects can be combined or compared.  
*Shared formats and vocabularies let computers and people understand each other.*
- **Reusable** — So that data can be meaningfully used beyond its original purpose.  
*Good documentation and clear licensing allow others to build on your work.*

FAIR data makes research more transparent, verifiable, and sustainable.

Sources: (Wilkinson et al., 2016), [FAIR Data 101](#) (accessed 2025-11-08)

## Findable: why it matters

- Data has little value if no one can locate it.
- Clear titles, metadata, and persistent identifiers (like DOIs) make your work visible to both people and search engines.
- When data is easy to find, it is easier to cite — increasing your impact and ensuring credit.

**Findable** is putting your data on the map.

# Making data findable

- Use descriptive, consistent names for datasets and files.
- Add rich metadata — who, what, when, where, why.
  - ▶ Use standard terms, so people can find them easily
- Register your dataset in a trusted repository with a permanent identifier (e.g., Zenodo, Dataverse).
- Cross-link: paper ↔ dataset ↔ code.
- This applies to governments and companies as well as academia
  - ▶ Making data findable should be part of making the data!

## Accessible: why it matters

- Even well-described data is useless if people can't reach it.
- Accessibility ensures that others can actually download or view your work — now and in the future.
- It also clarifies boundaries: who can use the data, under what conditions.
- 

Access is about clarity and stability, not about giving everything away. For sensitive language/cultural data, clarity of access rules is part of the ethics record.

# Making data accessible

- Store your data in repositories that use open web standards (HTTP/HTTPS).
  - ▶ Use persistent repositories
  - ▶ Support persistent repositories
  - ▶ Data from companies is typically very perishable
- Keep metadata available even if files must be restricted.
- Explain how others can request access if necessary.
- Test from a new computer — can someone else follow your instructions?

# Interoperable: why it matters

- Science advances when we can combine data from many sources.
- Interoperability allows your work to connect with others'
  - across languages, disciplines, and tools.
- Shared standards prevent “data silos” that only one group can use.

Interoperable data talks easily to other data.



# Making data interoperable

- Use open, non-proprietary formats (CSV, JSON, XML).
  - ▶ Text is better than binary, as you can always read it
- Follow community conventions for terminology and encoding.
- Provide clear documentation of structure and meaning.
- Link to external vocabularies or identifiers when possible.
  - ▶ e.g. [ISO 639](#) for the representation of languages and language groups.
    - English: en, eng (ISO 639-1, 2&3)
    - Czech: cs, cze/ces, ces (ISO 639-1, 2-B/T, 3)

## Reusable: why it matters

- Good data should outlive the project that created it.
- Reuse lets others verify results, test new questions, and save time.
- Well-documented and licensed data reduce duplication and waste.
- Producing data is the job of many agencies, but if no one uses it, it is wasted effort, ...

Reuse is the payoff — the reward for all your FAIR effort.

# Making data reusable

- Include full context: how the data was collected, cleaned, and analysed.
- Choose a clear license (e.g., CC BY or CC BY-SA).
- Describe known limitations or ethical constraints.
- Provide examples of how to cite or acknowledge your dataset.

## Citing the Open Multilingual Wordnet

If you use these wordnets, please cite the original projects who created them, if you got value from this aggregation/normalization, please cite Bond and Paik (2012).

### References

Francis Bond and Kyonghee Paik (2012) A survey of wordnets and their licenses In *Proceedings of the 6th Global WordNet Conference (GWC 2012)*. Matsue. 64–71

# Open licences and the Open Definition

- **Open data** means more than free access — it means legal permission to *use, modify, and share* without discrimination.
- The **Open Definition** (Open Knowledge Foundation) states that data is open if “anyone can freely access, use, modify, and share for any purpose” — subject only to requirements of attribution and share-alike.
- Common open licences:
  - ▶ **CC BY** – reuse with attribution.
  - ▶ **CC BY-SA** – reuse with attribution and same licence (share-alike).
  - ▶ **CC0 /Public Domain** – no restrictions.
  - ▶ **ODC BY/ODbL** – for databases; require attribution and share-alike.
- Choosing the right licence ensures that your data remains reusable and legally safe.

*Openness is a design choice—licensing makes it possible, clarity makes it trustworthy.*

# When not to use open licences

- Openness is a virtue, but not a universal rule.
- Some data should *not* be released under open licences because openness could cause harm.
- Examples include:
  - ▶ Personal or medical information that identifies individuals.
  - ▶ Cultural or linguistic materials shared under community protocols.
  - ▶ Locations of endangered species or sacred sites.
  - ▶ Data collected without full, informed consent for public reuse.
- In such cases, use restricted or tiered access, or licences that reflect community agreements.

Responsible openness means balancing transparency with care, consent, and context.

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# CARE: what and why

- **FAIR** focuses on making data easy to find and reuse.
- **CARE** ensures that openness respects people, communities, and context.
- Developed by the **Global Indigenous Data Alliance (GIDA)** (Carroll, Garba, et al., 2020).
  - ▶ **Collective Benefit:** Who gains from sharing this data?
  - ▶ **Authority to Control:** Who decides how it can be used?
  - ▶ **Responsibility:** Are researchers accountable to those represented?
  - ▶ **Ethics:** How can openness coexist with respect and consent?

CARE asks: who benefits, who decides, and how can openness support justice?

Together, FAIR + CARE promote data that is both open and just.

- **Why it matters:** Data can empower—or exploit—communities.
- Sharing should create positive outcomes for the people represented, not just for researchers or institutions.
- Benefits may include
  - ▶ knowledge preservation
  - ▶ recognition
  - ▶ capacity building
  - ▶ economic return

## Example

A linguistic corpus created with a minority language group should support local education, not only external research.

Open data should contribute to shared well-being, not just extraction.



# CARE – Authority to Control

- **Why it matters:** Communities have the right to govern how their cultural data is used and shared.
- Data sovereignty recognises that Indigenous and local groups decide access levels, licensing, and reuse.
- Authority can be expressed through traditional protocols, community review, or legal agreements.

## Example

Before releasing ethnobotanical recordings, obtain explicit approval from the community council and document their terms of use.

Openness must be chosen, not imposed.

# CARE – Responsibility

- **Why it matters:** Data stewardship is a relationship, not a transaction.
- Researchers have continuing responsibilities to maintain context, accuracy, and cultural respect.
- Responsibility includes acknowledging contributors, correcting misuse, and ensuring long-term protection.

## Example

Maintain communication with data contributors; report how their data are reused and share new findings with them.

Responsible openness strengthens trust and collaboration.

- **Why it matters:** Ethical reflection must guide decisions about collection, sharing, and reuse.
- Even technically FAIR data can be unethical if obtained without consent or if it exposes communities to harm.
- Ethics involves empathy, transparency, and accountability throughout the data lifecycle.

## Example

If publishing traditional songs or stories, consider whether public release might violate cultural norms or sacred boundaries.

Ethics is the foundation that keeps openness humane.

# CARE beyond Indigenous contexts

- The CARE principles were developed for Indigenous and community-governed data.
- Yet their spirit—centering people, consent, and benefit—applies to many creative and online communities.
- Think of fanfiction, collaborative writing, or online art:
  - ▶ **Collective Benefit:** Sharing enriches a fandom; readers and writers learn from one another.
  - ▶ **Authority to Control:** Authors decide if and where to post, and may lock or delete works.
  - ▶ **Responsibility:** Platforms and moderators ensure respect and prevent harassment.
  - ▶ **Ethics:** Respect creators' boundaries, content warnings, and attribution norms.
- These are not the original CARE cases—but they show how ethical principles travel.

CARE is a mindset: who benefits, who decides, who is responsible, and who might be harmed?

# FAIR, CARE, and sustainability

- Openness is not only ethical — it is environmental.
- Reusing well-documented data prevents repeated fieldwork, duplicated storage, and wasted energy.
- **FAIR** encourages efficient data management: organised, shareable, easier to maintain.
- **CARE** reminds us that sustainable research also means social sustainability — maintaining trust, reciprocity, and respect.
- Together, FAIR + CARE reduce both the carbon and the ethical footprint of digital scholarship.

Sustainability begins when every dataset collected is used to its fullest and shared with care.

# Towards green open research

- Each stage of the data lifecycle has environmental costs: storage, transfer, and computation.
- Good FAIR practice—clean metadata, smaller files, open formats—cuts energy use and prolongs data life.
- CARE principles promote community partnerships that reduce extractive, short-term projects.
- Reproducible workflows and open infrastructure avoid unnecessary duplication of effort and computation.

## Practical takeaway

When you make data open, make it *efficiently* open: small, meaningful, reused, and responsibly hosted.

Sustainable openness means doing more with less—knowledge without waste.

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  - Case Study: Archive of Our Own (AO3)
  - Case Study: AI Training Data
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## AO3: an open, community archive

- **Archive of Our Own (AO3)** is a non-commercial platform for fanfiction and other transformative works.
- Built and maintained by the **Organization for Transformative Works (OTW)**, a volunteer-run nonprofit.
- Serves millions of readers and writers; demonstrates how openness can align with community values.

*AO3 shows that open infrastructure can succeed ethically when the community defines the rules.*



# AO3 and the FAIR Principles

- AO3's design reflects key FAIR ideas: findability, accessibility, interoperability, and reusability.
- Its success depends on both *good metadata* and *good governance*.
- Each user contribution becomes part of a well-organised, searchable cultural dataset.

# Findable and Accessible

- **Findable:** AO3 uses detailed, user-generated tags and filters. Works can be discovered by fandom, pairing, trope, or content rating.
- Every work has a stable URL and consistent metadata, ensuring it can be cited or referenced reliably.
- **Accessible:** Content is available through a standard web interface and open API.
- Authors may choose to “lock” works for logged-in users—clear, transparent access rules.

*Users can always find and retrieve what they are looking for, within consent boundaries.*

# Interoperable and Reusable

- **Interoperable:** AO3 maintains a controlled vocabulary of tags with hierarchical relations—useful for digital humanities and fan studies.
- Data can be exported via API, allowing analysis across fandoms or comparison with other archives.
- **Reusable:** The platform supports transformative reuse—the foundation of fan creativity.
- Clear terms of service define attribution and remix norms, promoting responsible reuse.

AO3 enables a living ecosystem of reuse—stories inspire stories.

# AO3 and the CARE Principles

- AO3 also embodies the CARE principles: Collective Benefit, Authority to Control, Responsibility, and Ethics.
- Its governance structure protects authors' rights and ensures collective well-being.
- CARE explains *how* openness can exist without exploitation.
  - ▶ **Collective Benefit:** AO3 preserves fan culture, ensuring benefits return to its community rather than corporations.
  - ▶ **Authority to Control:** Authors retain ownership and can delete or restrict access at any time.
  - ▶ **Responsibility:** OTW provides clear policies, content warnings, and volunteer training.
  - ▶ **Ethics:** Inclusivity and consent are central; moderation prevents harm while protecting creative freedom.

# Lessons from AO3

- FAIR and CARE can coexist: openness does not mean loss of control.
- Community-defined metadata and tagging ensure technical quality *and* social relevance.
- Respectful governance and transparency sustain participation and trust.
- AO3 demonstrates that ethical, participatory data stewardship is both possible and scalable.

# AI training and the CARE principles

- Modern AI systems are trained on massive text, image, and audio datasets—often collected without explicit consent.
- This raises serious ethical and governance questions:
  - ▶ Who owns or controls the data used to train AI?
  - ▶ Who benefits from the commercial and social value it generates?
  - ▶ How are communities represented—or misrepresented—in AI outputs?
- The **CARE Principles** provide a useful lens:
  - ▶ **Collective Benefit:** Who gains from AI trained on public or cultural data?
  - ▶ **Authority to Control:** Were contributors able to consent or opt out?
  - ▶ **Responsibility:** Are data origins and attributions transparent?
  - ▶ **Ethics:** Does model training cause harm or reinforce bias?

Responsible AI should provide not only FAIR access to data, but CARE for the people behind it.

# Examples and ongoing research

- Scholars are exploring how CARE can inform AI ethics and governance:
  - ▶ **Carroll et al. (2020)** – Introduced CARE as complement to FAIR, warning that AI amplifies inequities.
  - ▶ **Whittaker et al. (2023)** – Frame AI data practices as extractive and colonial.
  - ▶ **Bender et al. (2021)** – “Stochastic parrots” critique: AI models reuse data without consent or understanding.
  - ▶ **DECORAIT (2023)** – A registry to track opt-in/opt-out for creative data in AI training.
- CARE calls for:
  - ▶ Transparent dataset documentation (e.g., “model cards,” “data statements”).
  - ▶ Mechanisms for consent, credit, and benefit-sharing.
  - ▶ Recognition that “open”  $\neq$  “free to exploit.”

Sources: (Bender et al., 2021; Carroll, Hudson, et al., 2020; Smith et al., 2023; Whittaker et al., 2023).

# Generative AI: opportunities and risks

## Potential benefits

- **Access:** Makes information, examples, and creative ideas instantly available.
- **Efficiency:** Supports brainstorming, translation, and summarisation.
- **Inclusion:** Lowers barriers for non-native speakers or early-career writers.
- **Education:** Helps students explore styles, genres, and feedback interactively.

## Key concerns

- **Accuracy:** Output may be plausible but factually wrong or biased.
- **Attribution:** Original authors of training data are rarely credited.
- **Motivation:** If creators lose recognition, incentive to write or share decreases.
- **Transparency:** Training data sources and usage policies often undisclosed.
- **Sustainability:** Large models consume significant energy and resources.

Generative AI amplifies the FAIR goals of access and reuse—but challenges the CARE goals of credit, consent, and responsibility.



# Reading, attribution, and true knowledge

- Responsible scholarship begins with **reading the sources themselves**.
- To cite ethically, you must:
  - ▶ **Read** the original work in full.
  - ▶ **Understand** its arguments and evidence.
  - ▶ **Judge** its credibility.
  - ▶ **Attribute** it accurately, giving credit to the authors and allowing others to check your conclusions.
- AI-generated summaries or paraphrases skip these steps:
  - ▶ You cannot check what was included, omitted, or distorted.
  - ▶ You lose the ability to evaluate the quality and reliability of the evidence.
  - ▶ As a result, genuine knowledge building—where ideas build on verified understanding—becomes impossible.
- **Reading is thinking.** Without it, citation becomes mimicry, not scholarship.
- **Writing is thinking.** Without it, you cannot build your own connections.

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# Persuasion and ethics in writing

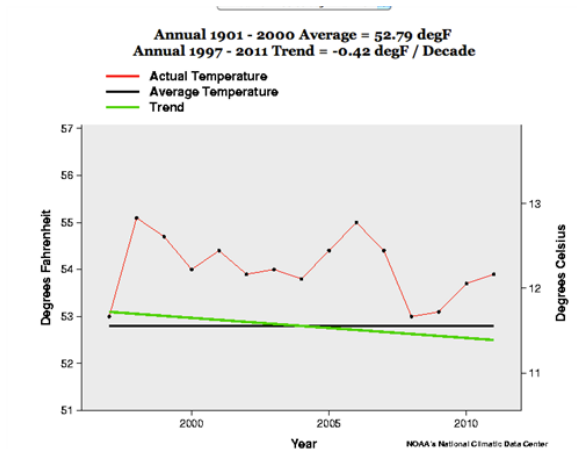
- All academic writing is persuasive: we choose what to show, emphasise, or omit.
- **Ethical persuasion** means presenting evidence fairly and reasoning transparently.
- Our aim is to convince by clarity and integrity—not by manipulation.
- The same ethics that guide FAIR and CARE also guide good writing: accuracy, context, respect.

If the data is sound but our argument misleads, we still fail ethically.

# Common pitfalls in persuasive research writing

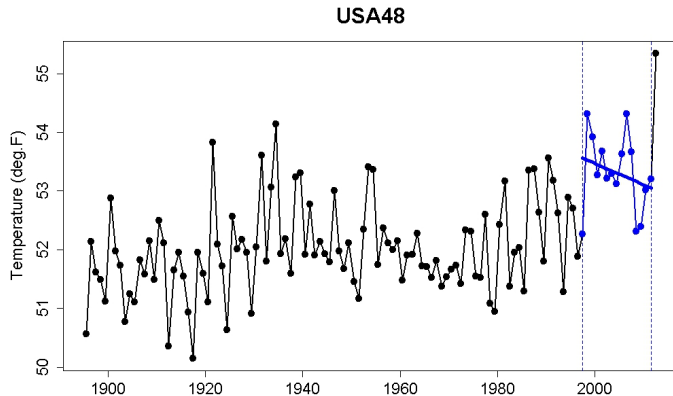
- **Cherry-picking data:** presenting only results that fit your argument.
- **Overstating causality:** “X causes Y” when evidence shows only correlation.
- **Ignoring confounders:** neglecting variables that explain the pattern.
- **Ambiguous visuals:** missing labels, unclear units, or distorted scales.
- **Rhetorical exaggeration:** emotional or absolute language (*proves, always, never*).

# Cherry-picking data: The temperature is declining!



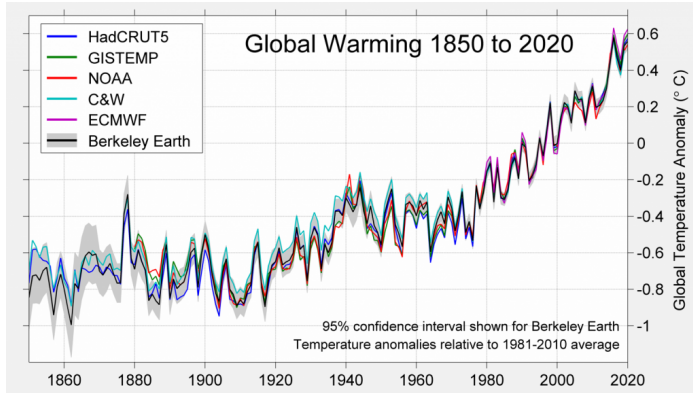
John Coleman, cited by Anthony Watts, cited by [Open Mind](#)

# Not if you zoom out



Open Mind *Cherry Picking is Child's Play*

## And average over different regions



**Climate Change Commission CCC:** *No more time for inaction as global warming accelerates, marking 2020 as one of the warmest years on record*

# Example: cherry-picking data

## What was done wrong?

- Only the years supporting the argument were shown.
- Broader data contradicts the claimed trend.
- No context or uncertainty provided.

## Better practice:

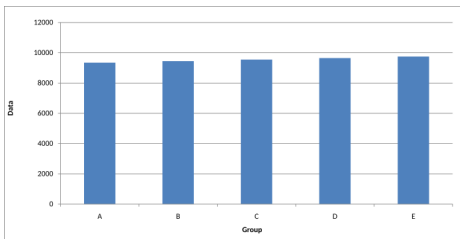
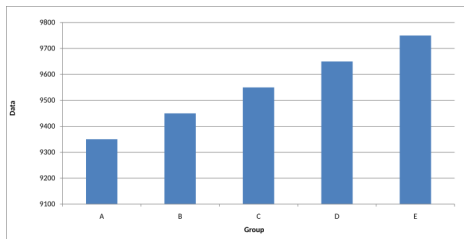
- Show full dataset and acknowledge anomalies.
- Explain possible causes rather than hiding them.
- Show confidence intervals (the grey band in the last image)

If someone cherry picks data, and refuses to acknowledge it after it has been pointed out, then they are not a credible source, ...



# How (not) to lie with graphs

- **Truncated axes** exaggerate small changes.
- **Omitted error bars** hide uncertainty.
- **3D charts** distort visual proportions.
- **Unequal scales** misrepresent relationships.



Images from [Wikipedia:Misleading graph](#) (accessed 2025-11-08)

# From data to argument: keeping FAIR and CARE alive

- **FAIR failures**—missing metadata, unclear methods—lead to weak or unverifiable claims.
- **CARE failures**—ignoring context or consent—lead to distorted or harmful narratives.
- Ethical writing means:
  - ▶ Verify data quality and provenance before citing.
  - ▶ Present uncertainty honestly.
  - ▶ Represent people and communities with respect.
- If we manage data carelessly, our communication cannot be trusted.
- This is as true for citing writing as it is for citing data!

# Persuasion with integrity

- Ethical persuasion is clear, evidence-based, and proportionate.
- Data visualisation should illuminate, not impress.
- Sound governance (FAIR/CARE) leads to sound communication.
- Our goal should be **to inform, not to manipulate.**

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# When what you find surprises you

- You hypothesised X — but your data support Y, or nothing at all.
- This is not failure — it is how discovery happens.
- Many great findings began as “wrong” results that researchers chose to explore rather than hide.
- Ethical research means reporting what you found, not what you hoped to find.

If you discover that what you thought was wrong, *then you have improved your model of the world* — if you just confirm what you thought, you have gained less!

# Ethical responses to unexpected results

- **Reflect:** Why might this have happened? Re-examine assumptions, methods, or definitions.
- **Consider alternatives:** Could sampling, measurement, or confounding factors explain the result?
- **Report transparently:** Document what changed—methods, data, or interpretation.
- **Revise hypotheses:** Update theory in light of evidence rather than forcing the evidence to fit theory.
- **Stay curious:** Unexpected outcomes often open richer questions.

# FAIR + CARE: supporting honest revision

- **FAIR** practices—clear metadata, versioning, provenance—let others trace how results emerged.
- **CARE** principles—context, consent, responsibility—help ensure surprises are interpreted respectfully.
- Keeping complete records allows you (and others) to:
  - ▶ Reanalyse the same dataset later.
  - ▶ Identify methodological errors.
  - ▶ Learn from data collected by others with proper context.
- This applies to *found data* too: when reusing open datasets, respect their limits and document your reasoning.

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- Ethics in Fiction Writing**

7 Practice!

8 Ref



# Scientific, creative, and encyclopedic writing

- **Scientific writing** — formal, objective, structured
  - ▶ Evidence-based, peer-reviewed, reproducible.
  - ▶ Goal: to inform and test ideas transparently.
- **Creative writing** — expressive, narrative, open to emotion and metaphor.
  - ▶ Goal: to move, provoke, or entertain.
  - ▶ Truth is emotional or imaginative, not empirical.
- **Wikipedia writing** — concise, neutral, verifiable.
  - ▶ Summarises consensus rather than taking sides.
  - ▶ Accessible to a broad, multilingual audience.

# Ethical imagination

- Fiction gives extraordinary freedom — should there also be responsibility?
- Writers shape how readers see the world, other cultures, and themselves.
- **Ethical imagination** means using creativity without exploiting others' pain or identity.
- Ask:
  - ▶ Whose stories am I telling?
  - ▶ Do I have the right, or the context, to tell them?
  - ▶ Who might be harmed or misrepresented by this portrayal?
- Respectful storytelling expands empathy; careless storytelling can reinforce stereotypes or trauma.

Sources: (Haynes, 2021; Khan, 2021; LeClerc, 2024)

# Cultural sensitivity and responsibility

- **Cultural sensitivity** is not censorship — it is awareness.
- Portray groups and traditions accurately, based on research and listening.
- Avoid:
  - ▶ Using cultural elements as exotic decoration (“appropriation”).
  - ▶ Reducing people to symbols or stereotypes.
  - ▶ Borrowing trauma without accountability.
- When writing outside your own experience:
  - ▶ Consult people from that background.
  - ▶ Be open to feedback and revision.
  - ▶ Prioritise authenticity over authority.
- Ethical fiction balances creative freedom with empathy and respect for real lives.

Sources: (Khan, 2021; Maguire, 2009; O’Callaghan, 2025)

*I am not an expert here*

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# Auditing sources for FAIR and CARE issues

- Next, we'll spend about **30 minutes** discussing and practising what we've learned.
- Two connected parts:
  - 1 **Discussion of last week's annotated bibliography.** Share one source you found insightful or problematic.
  - 2 **Source audit activity.** Choose one of your sources and check:
    - Is it **Findable, Accessible, Interoperable, Reusable**?
    - Does it respect **Collective Benefit, Authority to Control, Responsibility, Ethics**?
- Work individually or in pairs; we'll share highlights at the end.

*Our goal: to read sources not only for what they say, but for how responsibly they were created.*

# Your first-draft paper: fitting the scientific style

- The upcoming assignment is your **first draft of a short academic paper**.
- Use the conventions of scientific writing:
  - ▶ Clear research question and motivation.
  - ▶ Evidence-based argument supported by credible sources.
  - ▶ Neutral tone; cautious interpretation; accurate citations.
- Your annotated bibliography and Wikipedia writing experience both help:
  - ▶ Bibliography → evaluating sources and citation style.
  - ▶ Wikipedia → writing neutrally and clearly for others.

I want to see how well you can use your sources to answer the question, as accurately as possible.

- Next week, you will read each others papers and comment on them.

# Acknowledgements

- OpenAI (2025) was used to format the references, and generate a first draft of the slides

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