

The Transparent CHI Paper

Cheat Sheet

What is Transparency

Having one's actions open and accessible for external evaluation. Transparency pertains to researchers being honest about theoretical, methodological, and analytical decisions made throughout the research cycle.

Framework for Open and Reproducible Research Training ([FORRT.org](https://forrrt.org))

Why be transparent?

- Help readers and reviewers understand your work
- Helps you stay on top of your work
- Prevent mistakes
- Work faster
- Create better research.
- Increase citations and promote reuse

Being transparent benefits you as much as others ¹.

What should I make transparent?

Almost any researcher can integrate transparent practices. However:

- Keep in mind participant safety and rights
- Some data cannot be shared safely

Use data availability statement to report what can and can't be shared

Even if data must be kept private, share what materials you can (interview questions, analysis code, or other materials).

Inspiration/Examples

Papers

Broman, Wu (2018). Data organization in spreadsheets
peerj.com/preprints/3183

Wickham (2014). Tidy Data. jstatsoft.org/v59/i10

Wilson, G. et al (2017). Good enough practices in scientific computing
doi.org/10.1371/journal.pcbi.1005510

Organizations

Center for Open Science cos.io

The Alliance for Open Scholarship all4os.org

Project TIER projecttier.org

Framework for Open and Reproducible Research Training [FORRT.org](https://forrrt.org)

FOSTER Open Science fosteropenscience.eu

Common tools

Data and File Organization

Research Data Alliance rd-alliance.org/

Data Repositories

Open Science Framework (OSF)

Zenodo
Harvard Dataverse
ICPSR

Paper Repositories

Open Science Framework (OSF)

arXiv

Make your work findable

Ensure it is indexed and has a unique identifier.
Try CrossRef, ORCID, doi.

Licenses

CC-BY creativecommons.org
MIT mit-license.org

Analysis tools

Open source software is more transparent

R r-project.org

Python python.org

JASP jasp-stats.org

...but, you can be transparent with closed-source software, too!

Literate programming

Mixing text and code helps document your work

Quarto quarto.org

RMarkdown rmarkdown.rstudio.com

Jupyter Notebooks jupyter.org

Code Repositories

GitHub

Zenodo

GitLab

Bitbucket

...there are many more resources in all these categories! Pull requests welcome.

Checklist

Use this overview to keep track of what you did. Ignore the points not applicable to your project.

- ☐ Ethics approval granted
- ☐ (Confirmatory) User study preregistered
- ☐ Participant consent for open data sharing collected
- ☐ Data collection process documented
- ☐ De-Identified Data and data documentation (e.g., data dictionary) is uploaded to a repository that gives unique identifiers (e.g., DOI).
- ☐ Source code for data analysis cleaned up and commented
- ☐ Methodology comprehensibly described
- ☐ Citation list is clear and complete (including used software packages)
- ☐ All contributions are acknowledged
- ☐ Supplementary material documented and uploaded
- ☐ Repository given an open licence (e.g., CC-BY)
- ☐ Add a [data availability statement](#)
- ☐ Paper published open access

¹Markowetz, F. (2015). Five selfish reasons to work reproducibly. Genome biology, 16(1), 1-4.

Timeline

Fill in the blanks with your target deadlines. If a particular step does not apply to your work, feel free to cross it out.

TIMELINE

YOUR ACTION ITEMS

RESOURCES



Ethics Approval

- collect data sharing consent

[Check your universities guidelines]



Preregistration

- Check if a Preregistration could be beneficial for your work.
- If yes, Preregister



[AsPredicted.org](https://aspredicted.org/)



[OSF Guide and templates](#)



Data Collection and Organization

- deidentify/anonymize data, choose a non-proprietary file format (e.g., csv)
- create a data dictionary



[How To](#)



[Check Example](#)



Data Analysis

- clean, executable, and commented code/script



R



Python



JAS



Supplementary Material

- Add to a repository:
- data,
- study protocols,
- analysis scripts,
- videos, and
- anything else relevant to you.



[Zenodo.org](https://zenodo.org/)



[Harvard Dataverse](#)



[OSF Repository](#)



[GitHub](#)



[GitLab](#)



YOU DID IT!

