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)

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/https://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
FOSTER Open Science fosteropenscience.eu

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

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

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
Before Beginning the Study:			
☐	**Ethics Approval**	· Get consent to share your data	[Check your universities guidelines]
☐	**Preregistration**	· Check which preregistration template applies to you.	OSF Guide and templates
Before you Begin Data Collection:			
☐	**Set up Data Collection**	· choose a non-proprietary file format (e.g., csv) · prepare a data dictionary	How To
☐	**Prepare private Repository**	· Create a private repository you can safe your data to and which you can later make public	Resource
After Data Collection:			
☐	**Prepare Data**	· deidentify/anonymize data, · Safe raw data to private repository	
☐	**Data Analysis**	· clean, executable, and commented code/script	R Style Guide Python JASP Beginners Gui
Finishing Up:			
☐	**Supplementary Material**	Add to your repository: · data, · study protocols, · analysis scripts, · videos, and · anything else relevant to you.	Zenodo.org Harvard Dataverse OSF Repository GitHub GitLab
☐	YOU DID IT!	Take a break	