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Open and reproducible practices in developmental psychology research: The workflow of the WomCogDev lab as an example

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Characteristics of the paper

- Type of paper (e.g., tips, example): example
- Themes (e.g., tools, organization): tools, workflow
- Other keywords (e.g., newcomers): lab-centered

Tools

Specific tools mentioned - their function - where in the research process used

- Slack - communication - all
- Trello - project management - planning
- Open Science Framework - repository - planning, analysing, dissemination
- R - data analysis - analysing
- Jasp - data analysis - analysing
- Zenodo - data sharing - dissemination
- OpenNeuro - data sharing - dissemination

Organizational structure for open collaboration

Governance

- Setup a clear structure for how to conduct the research considering open science in each step
- Build in steps for error correction

Workflow

- designing the project - preregistration - creating the experiment - recruiting and data collection - data analysis - dissemination

Barriers

Barriers for open science

- Not everyone have the same prerequisites. There are conscious tradeoffs between trying to be as open as possible, and the feasibility of applying an open practice
- Some practices can take additional time
- For the workflow to work, lab members must follow it quite closely
- The learning curve can be steep, especially for people who arrive from more goal-oriented labs

Bibliography