



Learn more at
t1p.de/preregistration



Definition

The practice of **publishing the plan for a study**, including research questions or hypotheses, research design, data analysis **before** the data has been **collected** or examined (Parsons et al., 2022). **Preregistrations** can be applied to confirmatory studies, exploratory research, and secondary data analyses.

How to preregister

Key elements to include:

1. Have any data been collected for this study already?
2. What's the main research question or hypothesis?
3. Describe the study design
4. Describe the data processing and analysis plan
5. Specify (dis)confirmation criteria for your hypothesis



Pro-Tip

Registered Reports (RRs) allow peer review of your study plan **before data collection**. Learn more here: cos.io/rr

Best practice

Comprehensiveness

Plan all study details in advance, ideally including complete analysis scripts (R, Python, SPSS).

Structure

Use templates to structure preregistration, supporting review and comparison between planned and conducted analyses.

Transparency

Be transparent: create anonymized view-only links for blind review if needed and make preregistration public at publication.

Updates

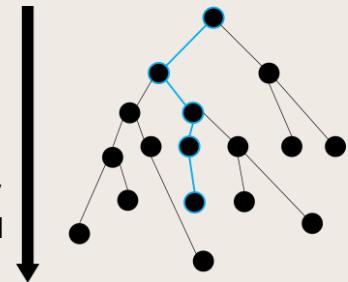
If needed, update preregistration before data collection; if already collecting or using secondary data, document deviations.

Deviations

Since deviations are common, clearly explain how and why they occurred and their impact, including non-preregistered aspects.

The Garden of Forking Paths

Research involves **many decisions** (e.g., data exclusions, analysis methods). These choices can greatly **affect the results**. To avoid bias and **improve replicability**, key **analytic decisions** should be prespecified **before** seeing the data.



Many analytic choices exist → unplanned choices can generate false positives!

Registries



OSF
Registries



ZPID
PreReg
Service

Comes with several templates, allows linking to articles posted on many preprint repositories, open source software, maintained by the non-profit Center for Open Science

For more registries see: t1p.de/preregistration