

# A tutorial on setting up a reproducible workflow in R and R Studio with Quarto

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This is where the abstract would go.

*Keywords:* these are the key words

*Words:* 203

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1. Introduction

2. Methods

We report how we determined our sample size, all data exclusions (if any), all manipulations, and all measures in the study (Simmons et al., 2012).

2.1. Participants

2.2. Material

2.3. Procedure

2.4. Data analysis

We used R version (R Core Team, 2025) for all our analyses.

3. Results

3.1. Descriptive statistics

Raw data plots.  
Accuracy by condition violin plot (Figure 1).

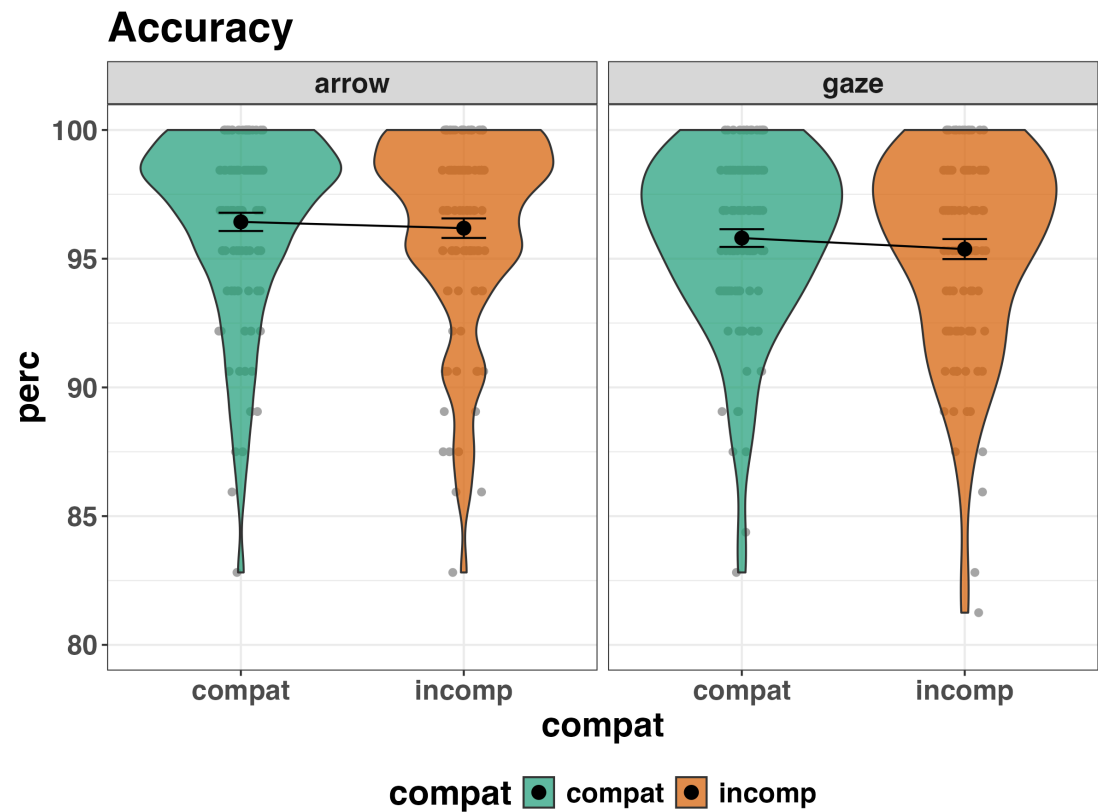


Figure 1: Accuracy is quite high for both types of stimuli.

Reaction time by condition violin plot (Figure 2).

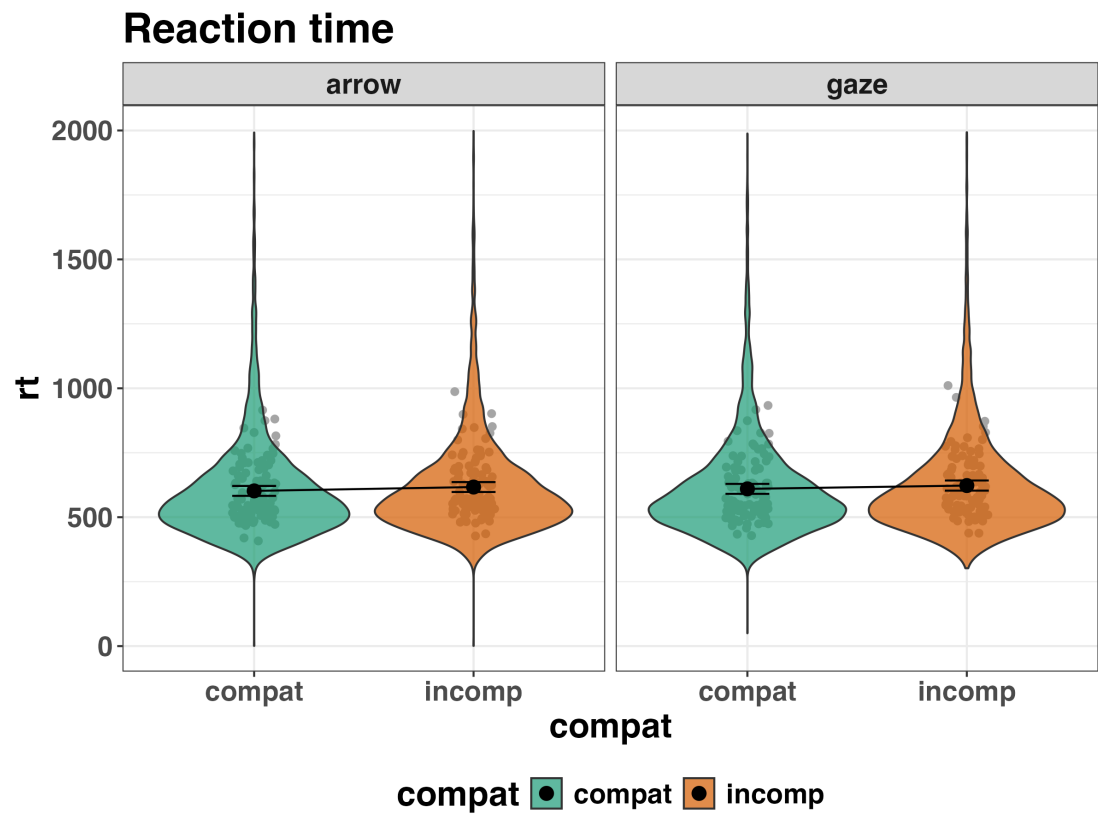


Figure 2: RT as a function of stimuli and conditions.

Reaction time by difference scores violin plot (Figure 3).

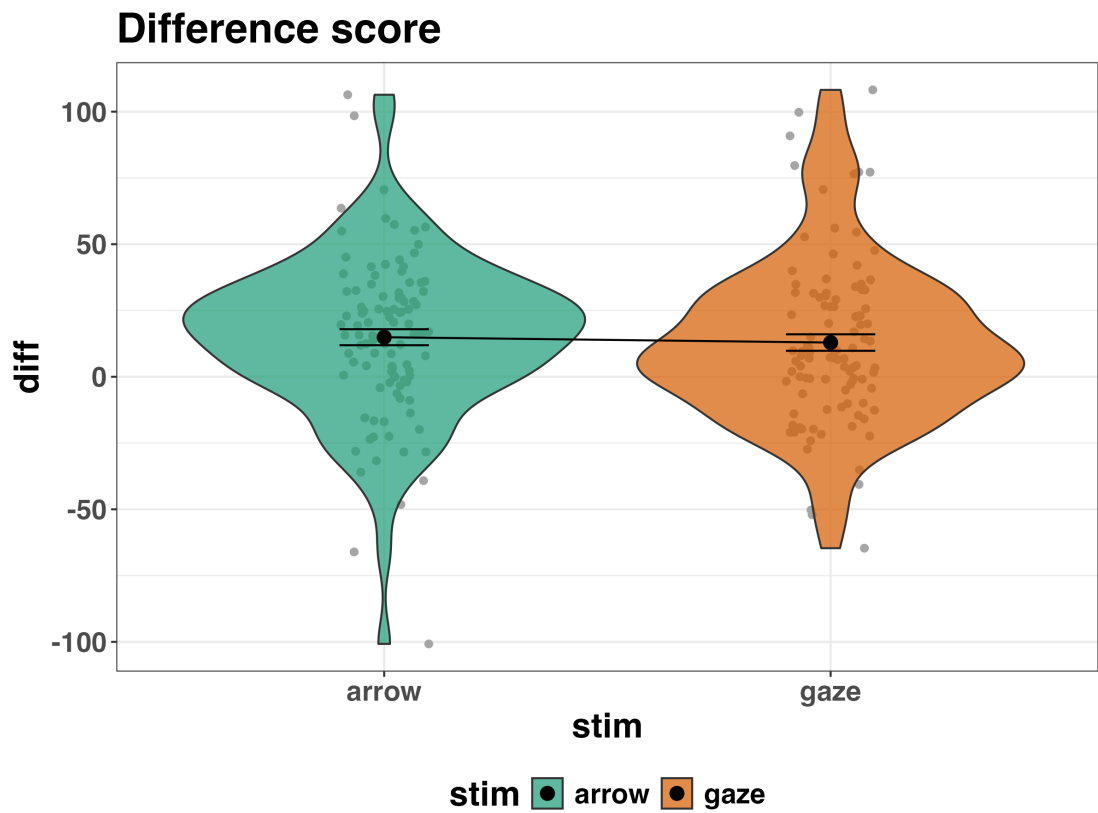


Figure 3: RT difference scores (incomp - compat) by stimulus type.  
Reaction time by difference scores density plot with quantiles (Figure 4).

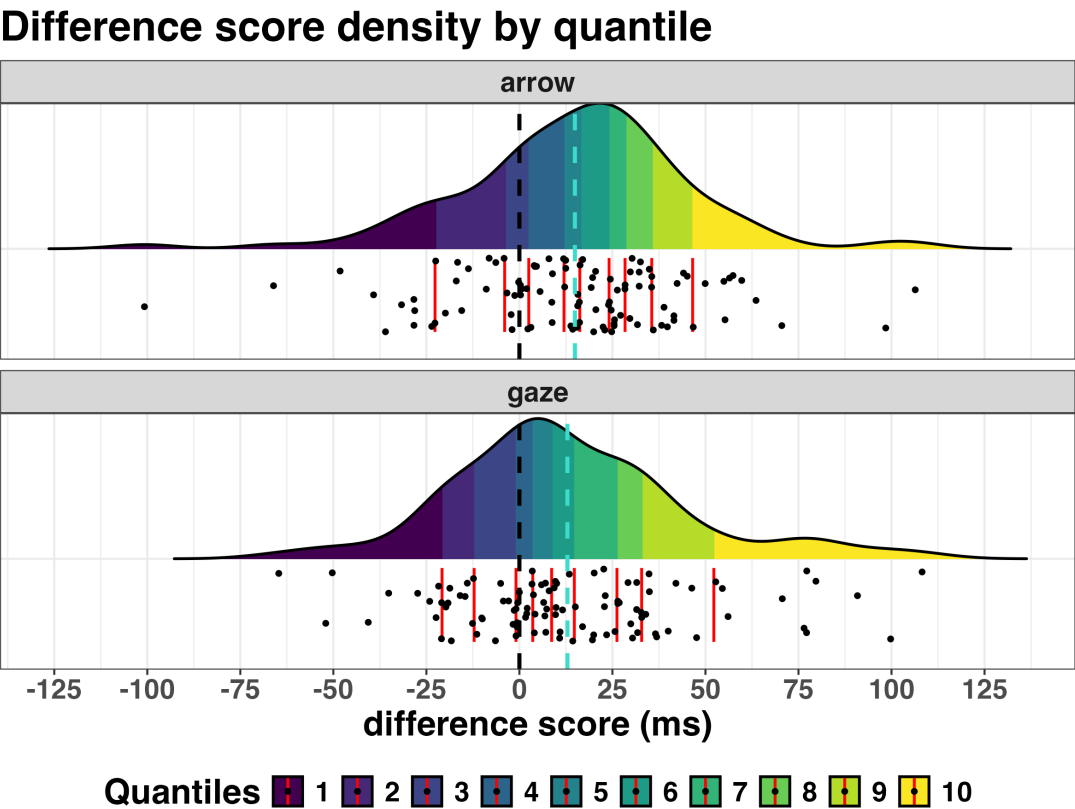


Figure 4: RT difference scores (incomp - compat) as a density plot.

3.2. Inferential statistics

Now we plot and tabulate parameters from the posterior distribution.  
Fixed effects from model b2 (Figure 5).

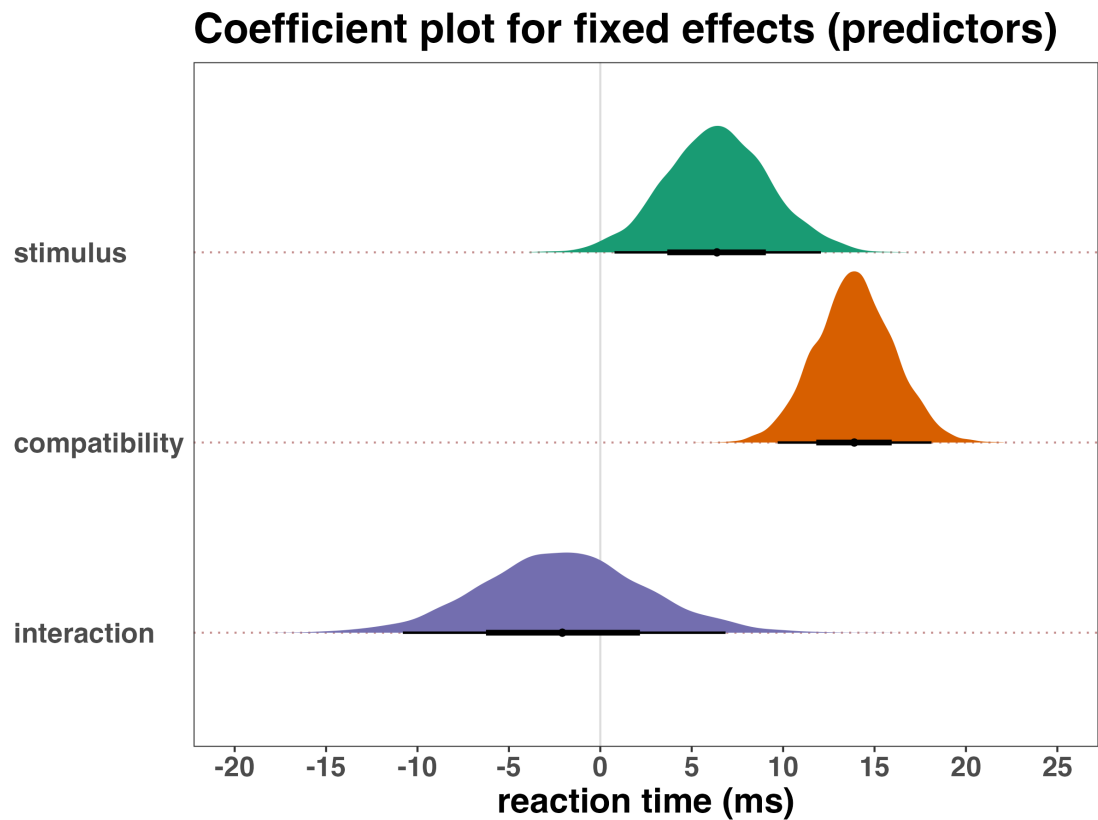


Figure 5: Fixed effects from model b2.

Here are a couple of example tables displaying fixed effects (Table 1, Table 2).

Table 1: Table created with `tinytable::tt()`

term	value	.lower	.upper
intercept	613.9	593.62	635
stimulus	6.4	0.77	12

Note. This is a footnote.

Table 2: Table created with `knitr::kable()`

term	value	.lower	.upper
intercept	613.94	593.62	634.79
stimulus	6.38	0.77	12.07

4. Discussion

5. Disclosures

5.1. Data and code availability

blah.

## **5.2. Author contributions**

We follow the Credit system. <https://credit.niso.org/>  
Blah.

## **5.3. Competing interests**

Blah.

## 6. References

- R Core Team. (2025). *R: A language and environment for statistical computing*. R Foundation for Statistical Computing. <https://www.R-project.org/>
- Simmons, J. P., Nelson, L. D., & Simonsohn, U. (2012). *A 21 Word Solution* (SSRN Scholarly Paper 2160588). Social Science Research Network. <https://doi.org/10.2139/ssrn.2160588>