# Data analysis I: Basics (preparation)

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### R_template and tutorial in R (Data analysis I: Basics)

This session assumes that you have

- *RStudio*

- A basic understanding of *RStudio* workspace, path, and environment (you can browse through *Chapter 6.5 in Scientific Musicology* for these basics).

- Materials downloaded from https://github.com/tuomaseerola/R_template

  - Tip 1: use the green "Code" button to "Download zip" file at Github
  - Tip 2: extract this into a convenient location on your computer and open contents.R with *RStudio*.

- You have read the R_Template page and perhaps had a quick peak at the rendered version of the page https://tuomaseerola.github.io/R_template/.

### Aims

1. Check the setup of your *RStudio*
2. Reading data into *R* (tsv and Excel)
3. Look at the pre-processing steps aimed for poorly formatted file from downloaded from *Qualtrics*.

- filter some variables and some observations
- turn categorical variables into factors
- convert into long-format from wide-format

4. Summarise some properties of the data (descriptives and plotting)

There will be tasks for you to do. The scripts should work by if you have the right libraries and you run the script in the right environment.