

Exercise 5 — Import Participant Data

Time: 20 min

Goal: Convert demographic columns into a clean `participants.tsv` with standard values.

The screenshot shows the Prism Converter application interface. At the top, there's a navigation bar with links for Home, Projects, Validator, Converter, Tools, Specs, Docs, and Quit. Below the navigation bar, the title "Prism Converter" is displayed with a subtitle "Convert Survey, Biometrics, Physio, and Eyetracking inputs to PRISM/BIDS-style outputs." The main interface is divided into several sections:

- Participant Data Management:** A section for extracting and converting participant demographics from various data sources. It includes fields for "Participant Data File" (with "Choose File" and "No file chosen" options), "Sheet Name/Index (Excel only)" (set to "0"), and "ID Column (optional)" (set to "participant_id"). It also specifies supported file types: Excel (.xlsx), CSV (.csv), TSV (.tsv), and LimeSurvey (.lisa). Buttons for "1. Preview Data" (highlighted in blue), "Add Additional Variables (Optional)", and "2. Extract & Convert" are present.
- Participant Annotation & Harmonization:** A section for adding descriptions, semantic annotations, and controlled vocabulary mappings to participants data using NeuroBagel standards. It includes a button "Annotate Participants". A callout box provides instructions on how participant annotation works, listing four steps: 1. Extract participant data, 2. Click "Annotate Participants", 3. The annotation saves to `participants.json`, 4. For advanced ontology lookups, use the full external tool linked above.
- Footer:** The footer contains the MRI-Lab Graz logo, contact information (karl.koschutnig@uni-graz.at, GitHub: MRI-Lab-Graz, Report an Issue), and credits: "Maintained by Karl Koschutnig", "Built with ❤ for the research community".

Figure 1: Participant Mapping

Input

- `raw_data/wellbeing.tsv`
- Active project from Exercise 0

Do this

1. Go to **Converter**.
2. Load `raw_data/wellbeing.tsv`.
3. Confirm column mappings:

- `participant_id` → participant id
 - `session` → session
4. Add/confirm participant value mapping:
 - `sex`: 1 → M, 2 → F, 4 → O
 - `handedness`: 1 → R, 2 → L
 - `education` → `education_level`
 5. Save mapping as `code/library/participants_mapping.json`.
 6. Run conversion.

Done when

- `rawdata/participants.tsv` exists.
- Sex and handedness are recoded (letters, not raw numeric codes).
- Validation has no participant-column naming errors.

If stuck

- Mapping file must be exactly `participants_mapping.json`.
- Column names are case-sensitive.
- Keep mapping file in `code/library/`.

Next

Go to `../exercise_1_raw_data/INSTRUCTIONS.md` (survey import).