


Exercise 3: Using Recipes

Time: 20 minutes


Goal: Calculate total scores automatically and export analysis-ready data to SPSS



MRI-LAB GRAZ
PRISM Studio

Port_Vario

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 **Recipes & Scoring**

What are recipes? Recipes are JSON files that define how to score and process your survey data automatically. They extract computed scales/subscales from raw survey responses and export them in analysis-ready formats (SPSS, R, CSV, Excel).

How it works:

- Recipes are automatically discovered from `code/recipes/{modality}/` (project-local)
- Falls back to global `official/recipes/{modality}/` if no project recipes are found
- Processing runs on your current project's dataset
- Scored outputs are saved to `derivatives/{modality}/`

Process & Export

Modality

Survey

Output Format

Recipe Filter (optional)

File Output

CSV (includes metadata & Jamovi R-Hel)

Leave empty to run all matching recipes.

☒ Separate file per survey
☐ One combined file (all surveys)

Language

Layout

Sessions

English

Long (one row per session)

☒ All sessions (default)
ses-1
ses-2


For metadata labels in exports.

For repeated measures.

Uncheck "All sessions" to pick specific sessions.

☐ Include Raw Data Columns

☐ Generate Methods Boilerplate

 **Data Sharing & Anonymization**

☒ **Anonymize for Sharing**
Randomize participant IDs (e.g., sub-001 → sub-R7X2K9) and create secure mapping file. Recommended for public data sharing.

☐ Mask Copyrighted Questions
Replace copyrighted survey text with generic labels (e.g., "ADS Question 1").

ID Length: ☐ Truly Random
Code length (4-12 chars). Uncheck for deterministic/reproducible IDs.

▶ Run Processing



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Built with ❤️ for the research community

Figure 1: Exercise 3 UI (Light Mode)

What You'll Learn

By the end of this exercise, you will: - Understand the recipe system for automated scoring - Apply recipes to calculate total scores and subscales - Export data to SPSS (.save) with full metadata - Generate codebooks and methods text automatically - Open and verify the results in SPSS/Jamovi

Starting Point

You'll use the dataset you completed in Exercise 1: - Location: `../exercise_1_raw_data/my_dataset/` - Status: Properly structured.

Requirements: - Your dataset must be valid. - JSON sidecars should ideally have metadata, but the recipe can work with raw columns too.

What Are Recipes?

Recipes are JSON files that define scoring logic: - Which items to sum/average - How to reverse-code items (if needed) - How to calculate subscales - Clinical cutoffs for interpretation

Your Task

Apply the Wellbeing and Fitness recipes to your dataset to: 1. Calculate the wellbeing total score (sum of 5 items) 2. Calculate the fitness composite if you converted the biometrics data 3. Export results to SPSS format

Step-by-Step Instructions

Step 1: Verify Recipe File Exists

The recipes are located at `demo/workshop/recipes/surveys/wellbeing.json` and `demo/workshop/recipes/biometrics/fitness.json`.

Step 2: Open Recipes & Scoring Tool

1. Open **PRISM Studio** (<http://localhost:5001>)
 2. Click **“Recipes & Scoring”** in the navigation menu
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Step 3: Select Your Dataset

Dataset Folder: 1. Click “Browse” button next to “PRISM Dataset Folder”
2. Navigate to: `demo/workshop/exercise_1_raw_data/my_dataset/` 3. Select this folder

Step 4: Configure Recipe Settings

For Wellbeing Survey:

- **Modality:** Select Survey
- **Recipe:** Select wellbeing
- **Output Format:** Select SPSS (.save) or Excel (.xlsx)
- Click “Run Scoring & Export”

For Fitness Data (Bonus):

- **Modality:** Select Biometrics
 - **Recipe:** Select fitness
 - Click “Run Scoring & Export”
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Step 5: Verify Results

Check your output folder (usually the same as the dataset or a `derivatives/` subfolder): - You should see `wellbeing_scores.save` (or `.xlsx`) - Open it and check the new columns (e.g., `wellbeing_total`) - Notice that the variable labels and value labels are preserved!

What Just Happened?

You went from raw data to analysis-ready results in minutes!

Instead of manual summing in Excel, you used a **machine-readable recipe** that: - Summarized your data automatically - Preserved all your hard-earned metadata - Created a format ready for statistical software - Documented exactly how the scores were calculated

Next Steps: Now that you’ve processed your data, let’s learn how to create your own survey templates from scratch!

Ready for Exercise 4? → Go to `../exercise_4_templates/`