

Data Management II

USC SPEC Lab Spring 2025

The goal: In this module, we're going to learn how to restructure datasets and prepare data for merging with the tidyverse. By the end, you should be familiar with functions like `pivot_wider()` and `pivot_longer()`, and have extensive experience with `_join()` methods, along with `cbind()` and `rbind()` for data combination.

1. Introductory Videos

[What is Tidy Data?](#)

[Setting Up: Introduction to `_join\(\)`](#)

[Setting Up II: Loading in Data Frames](#)

[Why Not Bind by Columns or Rows?](#)

[Join By What? Identifiers Explained](#)

[Four Types of `_join\(\)`: `left_join\(\)` Explained](#)

[Four Types of `_join\(\)`: `right_join\(\)` Explained](#)

[Four Types of `_join\(\)`: `full_join\(\)` Explained](#)

[Four Types of `_join\(\)`: `inner_join\(\)` Explained](#)

[Joining Without Parameters? R is Smarter Than You Think!](#)

[Reshaping and Plotting Data](#)

2. Walk Through Work

Reshaping & Merging Data with the tidyverse

3. Group Work

Practicing Merging & Reshaping Data with IDC Powersharing Dataset

4. Individual Work

Homework Problem Set with World Bank Ed Stats Database

Resources

R Studio Cheat Sheets

- [Data Import with the tidyverse](#)
- [Data Transformation with dplyr](#)