

Introduction to Data Management in R

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Introduction

- Data is a valuable component to any industry that generates it
- Workflows in the context of data management.
 - Collecting
 - Collating (involves processing)
 - Storing
 - Archiving
 - Security, curation, access and sharing
- Focus on a single aspect - processing and manipulation using R software, to prepare a dataset for analysis
 - Changing it's dimension
 - Altering it's structure
- Assume familiarity with tidyverse - we will heavily use it.

Scope

- Manipulation

- subsetting data
- Type conversion
- variable recoding & renaming
- creating new variables
- merging datasets (joins)

- Cleaning

- Missing values
- Root outliers
- Improbable values

- Transforming

- Reshaping
- Group summary and manipulation
- List columns

References

- Data wrangling sections (chapters 9 - 16) in [R for Data Science](#) book
- Rstudio cheatsheets for [dplyr](#) and [tidyr](#)
- Introduction to [dplyr](#)
- Tidy data with [tidyr](#)
- Suzan Baert's [blogs](#) on data wrangling