

Conclusion to Tidyverse

Athanasia Monika Mowinckel

Sept. 15th 2020

CBC LIFESPAN CHANGES

- Introduction to tidyverse concepts (15 minutes)
- Tidy data wrangling with translations to base-R (~ 2 hours)
 - plotting data with ggplot2 (~25 min)
 - sub-setting data with dplyr (~25 min)
 - chaining commands with the pipe %>% (~10 min)
 - adding and altering variables with dplyr (~25 min)
- Lunch break (30 min)
- Tidy data reshaping & summaries avoiding loops (~ 1.5 hours)
 - pivoting data with tidyr (~25 min)
 - grouped summaries with dplyr (~25 min)
 - working with nested data using purrr (~25 min)

LCBC LIFESPAN CHANGES

The packages

Covered here

Package	Functions
dplyr	data manipulation - altering and adding variables in a dataset
tidyr	data tidying - changing data shape and structure
ggplot2	data visualisation
purrr	Enhancements on functional programming

The packages

Covered here



Package	Functions
dplyr	data manipulation - altering and adding variables in a dataset
tidyr	data tidying - changing data shape and structure
ggplot2	data visualisation
purrr	Enhancements on functional programming

Not covered



Package	Functions
readr	easy and fast importing of data
tibble	variations on the R data.frame
forcats	working with factors/categorical data
stringr	working with strings/characters

CBC LIFESPAN CHANGES

grammar of data manipulation



provides a consistent set of verbs that help you solve the most common data manipulation challenges:

- select() picks variables based on their names.
- filter() picks cases based on their values.
- mutate() adds or alters variables that are functions of existing variables
- summarise() reduces multiple values down to a single summary.
- arrange() changes the ordering of the rows.

Combined with functions like

- group_by() Group the data set by
 variables
- nest_by() Nest data by columns
- across Apply functions across multiple columns

Tidy-selectors like:

- contains() select by variables containing a string
- starts_with() select by variables starting with a string
- ends_with() select by variables ending with a string



follow me: @DrMowinckels Read my blog: DrMowinckels.io

