

R Courses Training: Day 03

Data Cleaning, Writing Functions, Iteration

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Outline for today

- String manipulation with stringr
- 2. Dates and times with lubridate
- 3. Writing functions
- 4. Applying functions with purrr
- 5. Hands-on tutorial
 - a. Interactively go through RMarkdown on RStudio Cloud



String manipulation with stringr

The stringr package provides a set of internally consistent tools for working with character strings. (i.e. "this is a character string")



- detect matches
- subset strings
- manager lengths
- mutate strings
- order strings

Utilizing regular expressions is mightily powerful with stringr





Date-times with lubridate



Working with dates is a frequent task during data analysis.

Lubridate allows users to work quite time zones, leap days, day light saving times, and other time related nuances

Key functions:

- robust syntax that makes working with dates consistent
- allows for date-time math
- allows for durations, intervals, periods



Apply functions with purrr



purrr allows for iterations using list

Often there are tasks that are repetitive in nature and would benefit from generalization and automation.

Key features:

- simple syntax to loop through lists
- functional programming toolkit

Will also learn to write functions in R!

Now time for

hands on tutorial!