Wrangling and dates

- arrange(): arrange the rows according to some column
- filter(): filter out or obtain a subset of the rows
- Select(): Select a subset of columns
- Mutate(): Mutate or create a column
- Summarize(): Calculate the numerical summary of a column
- group_by(): group the rows by a specific column
- |> : Pipe ("and, then")
- == : equal to
- != : not equal to
- > greater than, >= greater than or equal to
  < less than, <= less than or equal to
- %in% c(***,***): a list of multiple values

Reshaping

- Pivot_wider : increases the # of columns.
- Pivot_longer : increases the # of rows

ex.

us_avg_tuition |>
  Pivot_longer(cols = -State
       names_to = "year",
       values_to = "avg_tuition")

everything except "state" becomes a column

a new column named each year

a new column named "avg-tuition"

Joining: Join 2 datasets into 1

Mutate Joins:
left_join() : joins new data to the left
inner_join() : joins new data in the inner
full_join() : joins full new dataset

filtering Joins
semi_join(): Partially joins dataset
anti_join(): Partially joins dataset (diff. than semi)

Factors:

- fct_relevel() reorders levels manually
- fct_reorder() relever orders according to values from another variable
- fct_infreq(): order levels from highest to lowest frequency
- fct_rev(): reverse the order count
- fct_recode(): Manually change levels (labels)
- fct_lump(): group together least common levels.

Strings:

Function	arguments	returns
Str_replace()	X, Pattern, replacement	Modified String
Str_replace_all()	X, pattern, replacement	Modified String
Str_to_lower()	X	Modified String
Str_sub()	X, Start, end	Modified String
Str_length()	X	a number
Str_direct	X, Pattern	TRUE/FALSE