

# tidyr Lab

2019-02-14

## Exercise 1

Tidy the data frame `ex0724` from the `Sleuth3` package. You can read about this data frame by typing `help(ex0724)` after loading `Sleuth3`.

## Exercise 2

Load in and tidy the `preg` data frame: [https://dcgerard.github.io/stat\\_412\\_612/data/preg.csv](https://dcgerard.github.io/stat_412_612/data/preg.csv)

Make the coding for any new variables nice.

Save the tidied data frame in the output folder.

## Exercise 3

Load in and tidy the `pew` data frame: [https://dcgerard.github.io/stat\\_412\\_612/data/pew.csv](https://dcgerard.github.io/stat_412_612/data/pew.csv)

Values in the cells are counts of people who adhere to a particular religion and contain a particular salary range.

Save the tidied data in the output folder.

## Exercise 4

Load in and tidy the `tb` data frame: [https://dcgerard.github.io/stat\\_412\\_612/data/tb.csv](https://dcgerard.github.io/stat_412_612/data/tb.csv)

The column names specify both the sex (`m` = male, `f` = female) and age range (`04` = 0 to 4, `514` = 5 to 14, `014` = 0 to 14, `1524` = 15 to 24, `2534` = 25 to 34, `3544` = 35 to 44, `4554` = 45 to 54, `4464` = 55 to 64, `65` =  $\geq 65$ , `u` = unknown). The values in the cells are counts.

Save the tidied data in the output folder.

## Exercise 5

Load in and tidy the `weather` data frame: [https://dcgerard.github.io/stat\\_412\\_612/data/weather.csv](https://dcgerard.github.io/stat_412_612/data/weather.csv)

- A column header that begins with a “d” is a day.
- For `element`, `tmax` = maximum temperature, `tmin` = minimum temperature.
- The values in the cells are the maximum or minimum temperatures for given days of the year.

Save the tidied data in the output folder.

## Exercise 6

Load in and tidy the `wine` data frame: [https://dcgerard.github.io/stat\\_412\\_612/data/wine.csv](https://dcgerard.github.io/stat_412_612/data/wine.csv)

Save the tidied data in the output folder.