# Counts and percentages

#### Data source

This program uses data from a study of sharing services (like sharing an automobile) and produces counts and percentages for a few demographic variables. There is a data dictionary that provides more details about the data.

### Libraries

Here are the libraries you need for this program.

```
library(readxl)
library(tidyverse)
```

## Reading the data

Here is the code to read the data and show a glimpse. There are 31 columns total, but I am showing just a few of the columns here.

```
fn <- "../data/sharing.xlsx"
sharing <- read_excel(fn)
glimpse(sharing[ , c(1, 5:7)])</pre>
```

# Calculate counts and percentages for gender

The survey respondents were mostly female with only 37% of respondents identifying as male. Six ages were missing.

# Calculate the counts and percentages for employment\_status.

```
sharing |>
  group_by(employment_status) |>
  summarize(n=n()) |>
  mutate(total=sum(n)) |>
  mutate(pct=100*n/total)
```

Most of the survey respondents were either employed or full time students. About half were employed while 19.5% were students. Only 2.6% were unemployed and there were 6 respondents whose status was unknown.