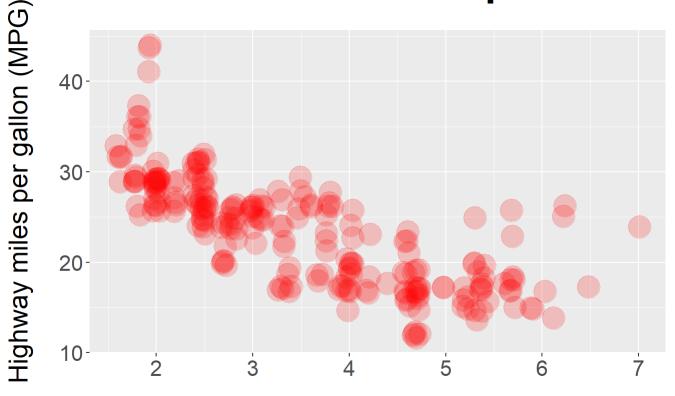
## **Assignment 1**

#### **Anthony Cunningham**

```
knitr::opts_chunk$set(echo = TRUE, warning = FALSE, message = FALSE)
# Change working dir in RMarkdown cell
knitr::opts_knit$set(root.dir =
'C:/Users/AC069015/kumc_applied_stats/data_824_data_viz_and_acquisition/1_intro_to_ggplot2'
library(dplyr)
##
## Attaching package: 'dplyr'
## The following objects are masked from 'package:stats':
##
##
       filter, lag
## The following objects are masked from 'package:base':
##
       intersect, setdiff, setequal, union
##
library(ggplot2)
# assign cars fuel economy data to data frame
df <- ggplot2::mpg</pre>
```

#### Exercise 1

## Car fuel consumption

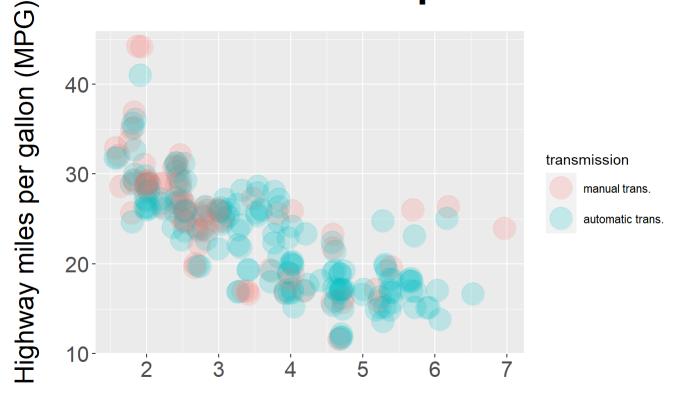


### Engine displacement (volume in litres)

```
ggsave(
   filename = "images/01_assignment_fig1.png",
   units = "cm",
   width = 29.7,
   height = 21,
   dpi = 600
)
```

#### Exercise 2

# Car fuel consumption

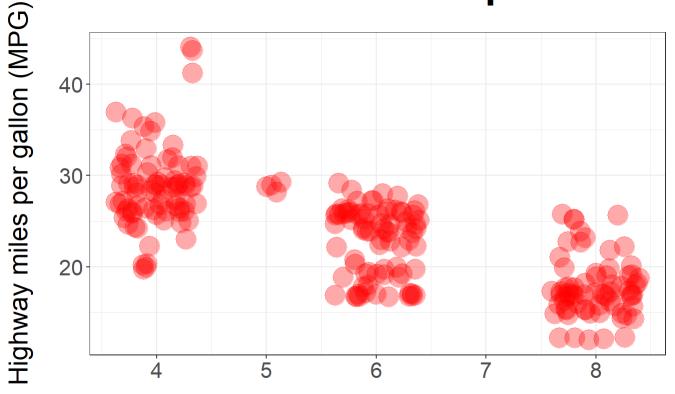


### Engine displacement (volume in litres)

```
ggsave(
   filename = "images/01_assignment_fig2.png",
   units = "cm",
   width = 29.7,
   height = 21,
   dpi = 600
   )
```

### Exercise 3

## Car fuel consumption



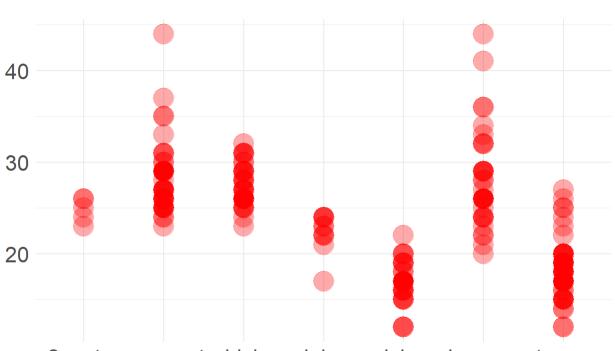
### Number of cylinders

```
ggsave(
   filename = "images/01_assignment_fig3.png",
   units = "cm",
   width = 29.7,
   height = 21,
   dpi = 600
)
```

### Exercise 4

Highway miles per gallon (MPG)

## Car fuel consumption



2seater compact midsize minivan pickusubcompact suv

Car Type

```
ggsave(
   filename = "images/01_assignment_fig4.png",
   units = "cm",
   width = 29.7,
   height = 21,
   dpi = 600
)
```