# R Bootcamp

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# Installing R

If you don't have them already installed you need to download and install R and R studio

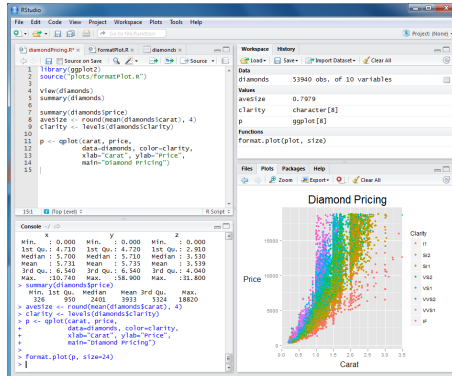- Download R
- R Studio

# Topics we will be covering

$$x = \frac{5}{4}$$

# Introduction to R

- R is an open source programming environment
- It is most commonly used for statistical computing and graphics
- The basic functionality of R can be extended with 'packages'

# Introduction to R studio

- R studio is an IDE within which you can write/edit code, run code, display plots/graphics and a whole host of other functions

# Getting Started

- Download and open the RBootcamp.R file from my GitHub Folder
- The rest of the information on the slides, after the next one, is all within the R file

# Running code in R

- To run any line of code use $\boxed{\texttt{Ctrl}}$ / $\boxed{\texttt{Cmd}}$ + $\boxed{\texttt{Enter}}$
  - R will run the highlighted code OR
  - R will run the line of code which the cursor is on

# Basic mathematical functions

```
(5+3)*7 - 2^2/3
```

```
## [1] 54.66667
```

```
(5+3)*7 - 2^2/3
```

```
## [1] 54.66667
```

# Slide with R Output

```r
summary(cars)
```

```
##      speed            dist
## Min.   : 4.0   Min.   :  2.00
## 1st Qu.:12.0   1st Qu.: 26.00
## Median :15.0   Median : 36.00
## Mean   :15.4   Mean   : 42.98
## 3rd Qu.:19.0   3rd Qu.: 56.00
## Max.   :25.0   Max.   :120.00
```

# Slide with Plot