1.3.1: Introduction to the R and R Studio (Asynchromous-Online)

Session Objectives

1. Get aquainted with R and R Studio
2. Write simple R code in Console
3. Create your first R script
4. Install and load R packages (understand R session)
5. Create your first R Markdown report and produce output files in different formats (HTML, PDF, or DOCX)

Prework - Before You Begin

some info

> **Note**
>
> R is the name of the programming language itself and RStudio is a convenient interface, commonly referred to as an integrated development environment or an IDE, for short.

1. Get aquainted with R and R Studio

info here

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info here

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some info

section 1

summary function

```
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  
```

figures

making simple plots

Code

```r
library(ggplot2)
library(dplyr)

ggplot(pressure, aes(temperature, pressure)) +
  geom_point() +
  geom_line(color = "blue") +
  ggtitle("My plot title")
```

Plot

```
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
```