R Workshop Series #1

Introduction and Basics

William Ho

Aug 10th, 2021

Actuarial Students' Society

Overview

R: https://cran.ms.unimelb.edu.au/
RStudio: https://www.rstudio.com/products/rstudio/download/

- Introduction
- Actuarial Students' Society Workshops
- Today's Learning Outcomes

Introduction

R: https://cran.ms.unimelb.edu.au/
RStudio: https://www.rstudio.com/products/rstudio/download/

R is a system used for statistical computation and graphics

- Is a programming language, allows you to create robust solutions
- No coding background is needed
- Used in the workforce in many actuarial contexts
- Has a large community of support

Actuarial Students' Society Workshops

R: https://cran.ms.unimelb.edu.au/
RStudio: https://www.rstudio.com/products/rstudio/download/

Created a series of four workshops directed specifically for beginners.

- (Today) Introduction, Data Types and Structures
- (24/08) Relational Operators, Control Flows
- (07/09) R for Statistics
- (28/09) Writing and using functions

Today's Workshop

R: https://cran.ms.unimelb.edu.au/
RStudio: https://www.rstudio.com/products/rstudio/download/

- Be familiar with *R* and *RStudio*
- Recognise three basic *Data Types*
- Create and perform basic manipulations with *Vectors*, *Matrices and Data Frames*
- Get started with *R Projects* and *RMarkdown*