Practical 1: Introduction to R packages

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Introduction

In this practical you will learn:

- The basic structure of `R` packages.
- How to create a simple `R` package.

A simple `R` package

Given two vector $x = (x_1, \ldots, x_n)$ and $y = (y_1, \ldots, y_n)$ of length n, their inner product is defined as:

$$< x, y >= \sum_{i=1}^{n} x_i \cdot y_i$$

1. Write a simple function to compute the inner product:
   - The function will take two arguments (`x` and `y`).
   - The function must return a single value (i.e., the inner product).
2. Use `devtools` to create a simple package with this function:
   - Create the basic structure of the package.
   - Write the manual page of the function, including a simple example.
3. Check the command to fix possible errors.