Advanced R Week 1

Chapter 1(good to know):

Suggested ways to develop packages: devtools, roxygen, testthat and usethis

Meta-techniques:

  1. Reading Source Code: Will help you write better code, help develop your opinions about good and bad code
  2. Adopting a Scientific Mindset: useful when you don't know how something works

Chapter 2: Names and Values

-> Difference between an object and its name

Quiz:(was very lost will return post chapter)

2.2 Binding Basics:

x <- c(1, 2, 3)

R is creating an object(the vector of values) and binding it to the name x.

So: Value doesn't have a name, the name is assigned a value.

Thus: Name serves as a reference to the value

Doing y <-x means y refers to the og object

Further: both x and y have the same location identifier(we can see when we do lobstr::obj_addr(), from library(lobstr))

Syntatic-name

- must consist of letters, digits, **.** and, _ but can't star with _ or a digit
- You cannot use a **reserved word:**
    - Ex: TRUE, NULL, if, function
    - Full list @ ?Reserved
- Name that doesn't follow these conditions is **non-syntactic**
    - **Can override non-syntactic names with backticks**
        - Eg: `_abc`
        - Don't use quotes to override bad names, its outdated

2.2.2 Exercises:

1) a is R creating a new object, and the name a is assigned to it, b and c are then assigned to the same object. d is R creating a new object, with a different address(but the object is equivalent to a, b, and c)
2) Come back to 2
3) Automatically converting non-syntactic to
4) Look into make.names
5)

Chapter 3: Vectors

Chapter 4: Subsetting