R-Bootcamp: Appendix 1

Dr. Matteo Tanadini & Co.

7-10 September 2020

Warnings

R produces a warning message when the it reckons that a given statement may be wrong (yes, that is AI :)

For example when the length of the shorter vector used in a summation is not a multiple of the longer vector. Below an example where two vectors of length 5 and 3 are summed.

```
1:5 + c(1:3)

Warning in 1:5 + c(1:3):  longer object length is not a multiple of shorter
object length

[1] 2 4 6 5 7

## but note
1:6 + c(1:3)

[1] 2 4 6 5 7 9
```

Errors

R produces an error message when a statement is definitely wrong and cannot be executed.

For example when we try create an object with an invalid name.

```
v.res@ <- 1:3

Error: <text>:1:8:  unexpected assignment
1:  v.res@ <-
           ^
```

NB: when an error message is issued, the statement is not executed! For example here, the object v.res@ is not created.

Messages

sometimes **R** prints a message to inform the user about some "relevant" info

For example when we load a package.

```
library(mgcv)
```

```
Loading required package: nlme
This is mgcv 1.8-28. For overview type 'help("mgcv-package")'.
```