R03 Lab

Introduction to the Tidyverse

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In the following exercises you will work with the msleep dataset which can be found in ggplot2 library. It contains information regarding sleep hours and weight of different mammals, derived from the research article “V. M. Savage and G. B. West. A quantitative, theoretical framework for understanding mammalian sleep. Proceedings of the National Academy of Sciences, 104 (3):1051-1056, 2007”, plus some extra information regarding order, conservation status and vore, found in Wikipedia. You can also find a description of the dataset here: <https://ggplot2.tidyverse.org/reference/msleep.html>, or you can search for it in R.

msleep dataset consists of 83 rows (mammals) and 11 variables. More specifically:

* name: common name
* genus
* vore: is the mammal carnivore, omnivore or herbivore?
* order
* conservation: the conservation status of the animal

check this out: https://en.wikipedia.org/wiki/Conservation\_status

* sleep\_total: total amount of sleep (hours)
* sleep\_rem: rem sleep (hours)
* sleep\_cycle: length of sleep cycle (hours)
* awake: amount of time spent awake (hours)
* brainwt: brain weight (kgs)
* bodywt: body weight (kgs)

You are expected to try all the exercises and within 1 week deliver:

* a R script with the code you used
* a report (as text file) presenting and commenting on your results (plus any graphs you might create)

Approach this set of exercises as a real-world project. You can find tutorials using this dataset and it is ok to use them, as long as you understand what you are doing and for what reason.

<https://www.ucd.ie/ecomodel/Resources/Sheet3_visualisation_WebVersion.html#Objectives>

<https://seandavi.github.io/ITR/dplyr_intro_msleep.html>