

## Introductory R workshop using Data Carpentry and Cayo Santiago rhesus macaque demographic data

1. Access the [Data Carpentry's R workshop](#)
2. Access the video [Introduction to RStudio](#) This short video can be seen together with the Data Carpentry's "Before We Start" section.
3. Once you carry out sections 1-4 of the Data Carpentry workshop, try your knowledge with Cayo Santiago rhesus data:
  - a) Following the Data Carpentry suggestions, create a working directory folder and structured it as recommended.
  - b) Upload the Cayo Santiago female rhesus macaque data from [Dryad](#) into RStudio and create an R script to explore:
    - a. how many individuals the dataset has?
    - b. what variables the dataset has?
    - c. what is the class of each variable?
    - d. are levels of each variable the same?
    - e. is there missing data?

### Challenge practice for data management:

1. Once you import the Cayo Santiago female rhesus macaque data file from Dryad in RStudio, name it "demo".
2. Create a new column in demo for age at death and another for age at removal (and estimate it).
3. Create a subset of demo ("demo\_2010") for individuals that died or were removed in 2010.
  - a. How many females died or were removed in 2010?
4. Create a new table for mean age at death and mean age at removal for the entire dataset.

5. Export the data to the data\_output file.

Don't forget to save your R script!!

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