

A

In my Quarto document, I want to embed a YouTube video inside an R code chunk. The video should be displayed properly when the document is rendered as an HTML file. How can I achieve this using `knitr::asis_output()`?

B.1

-I have an assignment, I need to calculate several statistics for an dataset in R. First I need to create a function which is named `compute_stats`. This function should take different columns in order to calculate mean, median, variance, IQR, min and max for each column. This calculations should be done with a for loop to calculate each column seperatly. BTW the name of the dataset is `mtcars`.

B.2 and B.3

-What if I want you to use another approach for this assignment? I shouldnt use a for loop. For another perspective, I should use `sapply` function to compute statistics for all columns and also I should use `apply` function to apply this function for all columns of a matrix. Am I clear? If you want I can write down extra details.

C

-For the other part of my assignment, I need to count how many NA in the dataset (which is `na_example` from `dslabs`) and I need to show indexes of NA's.

-I need to calculate mean and standart deviation of this dataset, but I should ignore NA values.

-Now, I need to update the dataset with 2 different method. First I need to change NA values with median of non-missing values. This will be my first version of newdataset. For the second one, I need to change NA values with the totally random values from dataset. At the end I need a dataframe, it should include the means and standart deviations of the original datase, verison 1 and version 2.

-As you remember I showed a dataframe which is including means and standart deviations of three different dataset, can u add the mean absolute percentage errors of mean's and standard deviation's of the new created dataset's with comparing the original dataset.