

Uhuru-function

Marcos Padilla-Ruiz

2022-12-08

```
uhuru_data <- read.csv("https://esapubs.org/archive/ecol/E095/064/ACACIA_DREPANOLOBIUM_SURVEY.txt", sep = ";")

# function takes three arguments: data, species, and formula
report_rsquared <- function(data, species, formula){
  # the filter function from the dplyr package subsets the rows that you want
  subset <- dplyr::filter(data, ANT == species)
  # the lm function creates a linear model of the subset dataframe
  test <- lm(formula, data = subset)
  # round allows for numbers in the dataset to be rounded up by 3 decimals
  rsquared <- round(summary(test)$r.squared, 3)
  # this creates data frames
  output <- data.frame(species = species, r2 = rsquared)
  return(output)
}
report_rsquared(data = "uhuru_data", species = "CM", formula = "AXIS1~CIRC")

# Error in UseMethod("filter") :
# no applicable method for 'filter' applied to an object of class "character"
```