

shrub_volume

2023-03-13

#Homework: Exercise 8: Fix the Code

```
read.csv(file = "../data raw/shrub-volume-data.csv") -> shrub_data #I made sure it set it so it knows t  
  
shrub_data |> mutate(volume = length * width * height) |> # I assigned shrub_data as an object so i  
  group_by(site) |> #It converts a tbl and makes it into a grouped tbl.  
  summarize(mean_volume = mean(volume))#This summarizes the data frame into just one value.
```

```
## # A tibble: 4 x 2  
##   site mean_volume  
##   <int>      <dbl>  
## 1     1        23.8  
## 2     2        26.6  
## 3     3        23.1  
## 4     4        57.1
```

```
shrub_data |> mutate(volume = length * width * height) |> #This allows for the formation of new variabl  
  group_by(experiment) |> #This groups rows by columns in the data frame.  
  summarize(mean_volume = mean(volume)) #In this line, I changed the max(volume)) to mean(volume) to al
```

```
## # A tibble: 3 x 2  
##   experiment mean_volume  
##   <int>      <dbl>  
## 1         1        22.0  
## 2         2        53.8  
## 3         3        22.1
```

```
str(shrub_data)
```

```
## 'data.frame':   12 obs. of  5 variables:  
## $ site      : int  1 1 1 2 2 2 3 3 3 4 ...  
## $ experiment: int  1 2 3 1 2 3 1 2 3 1 ...  
## $ length    : num  2.2 2.1 2.7 3 3.1 2.5 1.9 1.1 3.5 2.9 ...  
## $ width     : num  1.3 2.2 1.5 4.5 3.1 2.8 1.8 0.5 2 2.7 ...  
## $ height    : num  9.6 7.6 2.2 1.5 4 3 4.5 2.3 7.5 3.2 ...
```

```
exists("width")
```

```
## [1] FALSE
```

```
help("group_by")  
rownames(shrub_data)
```

```
## [1] "1" "2" "3" "4" "5" "6" "7" "8" "9" "10" "11" "12"
```