# ANA 515 Assignment 02

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#### Description

This dataset consists of script from all Lord of the Rings Trilogy - Fellowship of the Rings, Two Towers and Return of the King. This dataset has 2390 observations for 4 variables. It was collected from https://www.kaggle.com/datasets/paultimothymooney/lord-of-the-rings-data. The dataset decribes the script for each character and which movie it is from. The dataset is a delimited flat file while the delimiter is a space

## Loading Packages

library(tidyverse)
library(dplyr)
library(knitr)
library(bslib)
library(readr)
library(stringr)
library(DT)

# Reading the data with read.csv function from the package readr

lotr <- read.csv("C:/Users/rashm/Desktop/ANA 515 Fundamentals of Data Storage/LOTR/lotr\_scripts.csv")

#### Cleaning/Pre-Processing Data

lotr\_df <- lotr %>%
 rename(character\_name = char) #Renaming the column char to character\_name
 str\_to\_title(lotr\_df\$character\_name) #Converting the character names to title case
 trimws(lotr\_df\$dialog) #I have noticed some of the dialogues have a leading whitespace. So, we're trimming

## I have hidden the output for this code chunk as it produces a large amount of data. Below is another character names

datatable(lotr\_df, rownames=TRUE, filter="top", options=list(pageLength=6, scrollX=T)) #This is reduce the

Show 6 \( \display \) entries				Search:					
	<b>X</b> 1	character_name		dialog		mov	⁄ie		
All		All		All		Al	I		
1	0	DEAGOL		Oh Smeagol Ive got one! , Ive got a fish Smeagol, Smeagol!			The Return of the King		
2	1	SMEAGOL		Pull it in! Go on, go on, go on, pull it in!			The Return of the King		
3	2	DEAGOL		Arrghh!			The Return of the King		
4	3	SMEAGOL		Deagol!		The Return of the King			
5	4	SMEAGOL		Deagol!		The Return of the King			
6	5	SMEAGOL		Deagol!		The	Return of	the King	
Showing 1 to 6 of 2,390 er	ntries			Previous 1 2	3 -	4 5	39	99 Next	

#### Characteristics of Data

observations <- nrow(lotr\_df) variables <- ncol(lotr\_df)

This data frame has 2390 rows and 4 columns. The names of the columns and a brief description of each are in the table below:

#### Table

## Summary Statistics

#Since my data set only has one variable with numeric values, I chose to apply the required functions to it

FrodoFilter <- filter(lotr\_df, character\_name=="FRODO")
FrodoMin <- min(FrodoFilter\$X)
FrodoMax <- max(FrodoFilter\$X)
FrodoMean <- mean(FrodoFilter\$X)
FrodoMV <- colSums(is.na(FrodoFilter))
summary(FrodoFilter) #Using summary function

## X character\_name dialog movie
## Min. : 16 Length:225 Length:225 Length:225
## 1st Qu.: 574 Class :character Class :character Class :character
## Median :1356 Mode :character Mode :character Mode :character
## Mean :1255
## 3rd Qu.:1922
## Max. :2337

# Saving summary stats

## FrodoMin FrodoMax FrodoMov
## X 16 2337 1254.516 0
## character\_name 16 2337 1254.516 0
## dialog 16 2337 1254.516 0
## movie 16 2337 1254.516 0