

Data607-MajorAssignment-Tidyverse

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An Example using TidyVerse package - and using tesla-stock-data-from-2010-to-2020 Dataset from Kaggle [<https://www.kaggle.com/timoboz/tesla-stock-data-from-2010-to-2020>]:

Load the library and Read the data using readr:

```
# Loading the tidyverse package:
library(tidyverse)
```

```
## -- Attaching packages -----
## v ggplot2 3.2.1      v purrr  0.3.3
## v tibble  2.1.3      v dplyr  0.8.3
## v tidyr   1.0.2      v stringr 1.4.0
## v readr   1.3.1      v forcats 0.4.0
```

```
## -- Conflicts -----
## x dplyr::filter() masks stats::filter()
## x dplyr::lag()     masks stats::lag()
```

```
# Loading the tesla-stock-data-from-2010-to-2020:
theUrl <- "https://raw.githubusercontent.com/kamathvk1982/Data607-MajorAssignment-Tidyverse/master/TSLA"
tesla.hist.df <- read_csv(theUrl)
```

```
## Parsed with column specification:
## cols(
##   Date = col_date(format = ""),
##   Open = col_double(),
##   High = col_double(),
##   Low = col_double(),
##   Close = col_double(),
##   `Adj Close` = col_double(),
##   Volume = col_double()
## )
```

```
# Adding a new column to get the current day gain/loss:
tesla.hist.df$GainLoss <- tesla.hist.df$Close - tesla.hist.df$Open
```

```
# Summary of the dataset:
str(tesla.hist.df)
```

```
## Classes 'spec_tbl_df', 'tbl_df', 'tbl' and 'data.frame': 2416 obs. of  8 variables:
## $ Date      : Date, format: "2010-06-29" "2010-06-30" ...
## $ Open      : num  19 25.8 25 23 20 ...
## $ High      : num  25 30.4 25.9 23.1 20 ...
## $ Low       : num  17.5 23.3 20.3 18.7 15.8 ...
## $ Close     : num  23.9 23.8 22 19.2 16.1 ...
## $ Adj Close: num  23.9 23.8 22 19.2 16.1 ...
## $ Volume    : num  18766300 17187100 8218800 5139800 6866900 ...
## $ GainLoss  : num   4.89 -1.96 -3.04 -3.8 -3.89 ...
## - attr(*, "spec")=
## .. cols(
## ..   Date = col_date(format = ""),
## ..   Open = col_double(),
## ..   High = col_double(),
## ..   Low  = col_double(),
## ..   Close = col_double(),
## ..   `Adj Close` = col_double(),
## ..   Volume = col_double()
## .. )
```

Package Selected : .

Capability 1:

Capability 2:

Capability 3: