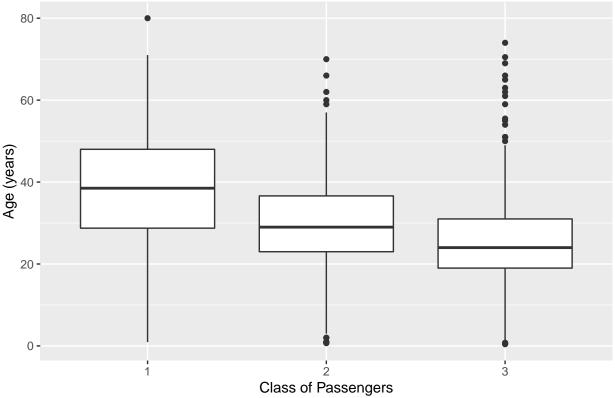
## Godambe.R

## Maya S. Godambe

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```
# Loading Packages necessary for analyzing data
library(readr)
library(package = "tidyverse")
## -- Attaching packages ------ tidyverse 1.3.2 --
## v ggplot2 3.3.6
                     v dplyr 1.0.10
## v tibble 3.1.8
                     v stringr 1.4.1
## v tidyr
          1.2.1
                     v forcats 0.5.2
          0.3.5
## v purrr
## -- Conflicts ----- tidyverse_conflicts() --
## x dplyr::filter() masks stats::filter()
## x dplyr::lag()
                   masks stats::lag()
library(package = "table1")
## Attaching package: 'table1'
## The following objects are masked from 'package:base':
      units, units<-
library(package = "descr")
library(package = "lsr")
require(SASxport)
## Loading required package: SASxport
## Warning in library(package, lib.loc = lib.loc, character.only = TRUE,
## logical.return = TRUE, : there is no package called 'SASxport'
library(foreign)
library(dplyr)
#Loading data from git up repository use "read_csv" command. Data titled "titanic"
titanic <- read_csv("https://raw.githubusercontent.com/kijohnson/Data/main/titanic.csv")
## Rows: 887 Columns: 8
## -- Column specification ------
## Delimiter: ","
## chr (2): Name, Sex
## dbl (6): Survived, Pclass, Age, Siblings/Spouses Aboard, Parents/Children Ab...
## i Use `spec()` to retrieve the full column specification for this data.
## i Specify the column types or set `show_col_types = FALSE` to quiet this message.
```

```
#RECODE CLASS AS A FACTOR with levels, 1,2, and 3
titanic1 <- titanic %>%
  mutate(Pclass = recode_factor(.x = Pclass,
                                '1' = '1',
                                '2' = '2'
                                '3' = '3'))
# Class 1 has a median age of 38.5 years, Class 2 has a median age of 29 years,
#and Class 3 has a median age of 24 years
aggregate(titanic1$Age,
          list(titanic1$Pclass),
          median)
    Group.1
           1 38.5
## 1
## 2
           2 29.0
## 3
           3 24.0
#boxplot of class by Age (years)
ggplot(data = titanic1, aes(x = Pclass, y = Age),
       group= Age) +
  geom_boxplot() +
  labs(x = "Class of Passengers", y = "Age (years)", title = "Boxplot 1. Class by Age ")
      Boxplot 1. Class by Age
```



```
# using the dplyr package, finding percentage of males and females by class
titanic1 %>%
    group_by(Pclass, Sex) %>%
    summarise( percent = 100 * n() / nrow(titanic))
```

```
## `summarise()` has grouped output by 'Pclass'. You can override using the
## `.groups` argument.
## # A tibble: 6 x 3
## # Groups: Pclass [3]
##
   Pclass Sex
                 percent
## <fct> <chr>
                     <dbl>
## 1 1
          female 10.6
## 2 1
           male
                    13.8
       female 8.57
male 12.2
female 16.2
male 38.7
## 3 2
## 4 2
## 5 3
## 6 3
```