Data 607 Assignment 1

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Week 1 Homework-Data 607-Assignment 1

```
getwd()
```

```
## [1] "C:/Users/Emahayz_Pro/Desktop/Data_Science/Data 607/Week1"
```

```
setwd("C:/Users/Emahayz_Pro/Desktop/Data_Science/Data 607/Week1")

# Assignment - Loading Data into a Data Frame
Mushrooms<-read.csv("https://archive.ics.uci.edu/ml/machine-learning-
databases/mushroom/agaricus-lepiota.data", header= FALSE, sep=",")[ ,1:4]
```

Task 1:

You should take the data, and create a data frame with a subset of the columns in the dataset.

You should include the column that indicates edible or poisonous and three or four other columns.

```
colnames(Mushrooms) <- c("classes", "capshape","capsurface", "capcolor") #
Selecting columns
head(Mushrooms) # The original Mushrooms file is successfully read and the
columns listed.
```

```
##   classes capshape capsurface capcolor
## 1       p        x          s        n
## 2       e        x          s        y
## 3       e        b          s        w
## 4       p        x          y        w
## 5       e        x          s        g
## 6       e        x          y        y
```

Task 2:

You should also add meaningful column names and replace the abbreviations used in the data

```
# Colname = classes
Mushrooms$classes <-as.character(Mushrooms$classes)
Mushrooms$classes [Mushrooms$classes %in% "e"] <- "edible"
Mushrooms$classes [Mushrooms$classes %in% "p"] <- "poisonous"
```

```r
# Colname = capshape
Mushrooms$capshape <-as.character(Mushrooms$capshape)
Mushrooms$capshape [Mushrooms$capshape %in% "b"] <- "bell"
Mushrooms$capshape [Mushrooms$capshape %in% "c"] <- "conical"
Mushrooms$capshape [Mushrooms$capshape %in% "x"] <- "convex"
Mushrooms$capshape [Mushrooms$capshape %in% "f"] <- "flat"
Mushrooms$capshape [Mushrooms$capshape %in% "k"] <- "knobbed"
Mushrooms$capshape [Mushrooms$capshape %in% "s"] <- "sunken"

# Colname = capsurface
Mushrooms$capsurface <-as.character(Mushrooms$capsurface)
Mushrooms$capsurface [Mushrooms$capsurface %in% "f"] <- "fibrous"
Mushrooms$capsurface [Mushrooms$capsurface %in% "g"] <- "grooves"
Mushrooms$capsurface [Mushrooms$capsurface %in% "y"] <- "scaly"
Mushrooms$capsurface [Mushrooms$capsurface %in% "s"] <- "smooth"

# Colname = capcolor
Mushrooms$capcolor <-as.character(Mushrooms$capcolor)
Mushrooms$capcolor [Mushrooms$capcolor %in% "n"] <- "brown"
Mushrooms$capcolor [Mushrooms$capcolor %in% "b"] <- "buff"
Mushrooms$capcolor [Mushrooms$capcolor %in% "c"] <- "cinnamon"
Mushrooms$capcolor [Mushrooms$capcolor %in% "g"] <- "gray"
Mushrooms$capcolor [Mushrooms$capcolor %in% "r"] <- "green"
Mushrooms$capcolor [Mushrooms$capcolor %in% "p"] <- "pink"
Mushrooms$capcolor [Mushrooms$capcolor %in% "u"] <- "purple"
Mushrooms$capcolor [Mushrooms$capcolor %in% "e"] <- "red"
Mushrooms$capcolor [Mushrooms$capcolor %in% "w"] <- "white"
Mushrooms$capcolor [Mushrooms$capcolor %in% "y"] <- "yellow"
```

View the first few rows again

```r
head(Mushrooms)
```

```
##     classes capshape capsurface capcolor
## 1 poisonous   convex     smooth    brown
## 2    edible   convex     smooth   yellow
## 3    edible     bell     smooth    white
## 4 poisonous   convex      scaly    white
## 5    edible   convex     smooth     gray
## 6    edible   convex      scaly   yellow
```