

Classwork

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Let's Learn R Markdown

- R markdown is a simple formatting syntax for authoring HTML, PDF, and MS Word documents
- Simple syntax:
 - # for headers and sub headers (##)
 - ** or _ for **bolds** and *italics*
 - - or 1. for lists
 - > for block quotes

Let's Learn by Exercise

- **Create a R Markdown File**
 - Go to Drop-down Menu “File”
 - From “New File” select “R markdown. . .”
 - Write YAML (file name, your name, work date)
- **Install a Pre-Made Data**
 - The “UsingR” package contains various pre-made datasets useful for simple analyses

```
options(repos = "https://cran.r-project.org")
install.packages("UsingR")
```

```
## package 'UsingR' successfully unpacked and MD5 sums checked
##
## The downloaded binary packages are in
##  C:\Users\User\AppData\Local\Temp\RtmpgZxqr0\downloaded_packages
```

- The library() function loads the package so we can use its datasets.

```
library(UsingR)
```

- The ‘mandms’ is a dataset containing info on the distribution of M&M by colors and price

```
data("mandms", package = "UsingR")
```

- **Let's Discover Our Dataset**

```

force(mandms)

##          blue   brown   green   orange    red   yellow
## milk chocolate 10.0000 30.0000 10.0000 10.0000 20.0000 20.0000
## Peanut        20.0000 20.0000 10.0000 10.0000 20.0000 20.0000
## Peanut Butter 20.0000 20.0000 20.0000  0.0000 20.0000 20.0000
## Almond       16.6667 16.6667 16.6667 16.6667 16.6667 16.6667
## kid minis     16.6667 16.6667 16.6667 16.6667 16.6667 16.6667

```

```

View(mandms)
summary(mandms)

```

```

##      blue         brown         green         orange
## Min. :10.00   Min. :16.67   Min. :10.00   Min. : 0.00
## 1st Qu.:16.67 1st Qu.:16.67 1st Qu.:10.00 1st Qu.:10.00
## Median :16.67 Median :20.00  Median :16.67 Median :10.00
## Mean   :16.67 Mean   :20.67  Mean   :14.67 Mean   :10.67
## 3rd Qu.:20.00 3rd Qu.:20.00 3rd Qu.:16.67 3rd Qu.:16.67
## Max.  :20.00  Max.  :30.00  Max.  :20.00  Max.  :16.67
##      red         yellow
## Min. :16.67   Min. :16.67
## 1st Qu.:16.67 1st Qu.:16.67
## Median :20.00 Median :20.00
## Mean   :18.67 Mean   :18.67
## 3rd Qu.:20.00 3rd Qu.:20.00
## Max.  :20.00  Max.  :20.00

```

– How many observations do we have?

```

length(mandms)

```

```

## [1] 6

```

– How many variables do we have?

```

nrow(mandms)

```

```

## [1] 5

```

– How much all the M&Ms in total cost?

```

length(treering)

```

```

## [1] 7980

```

– How about min price?

```

min(mandms)

```

```

## [1] 0

```

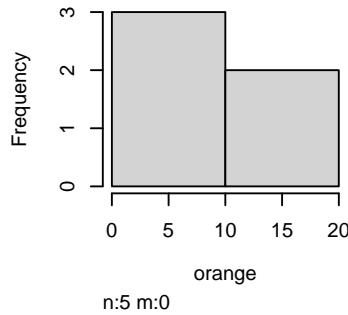
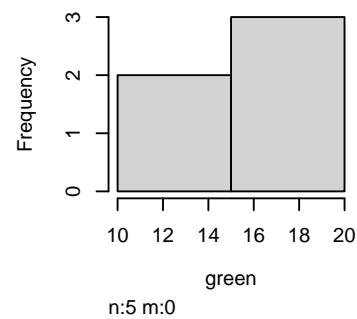
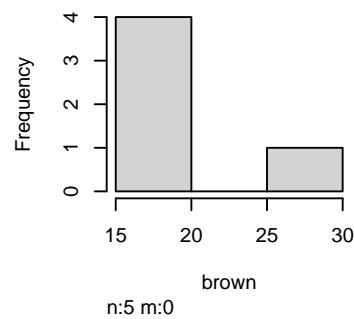
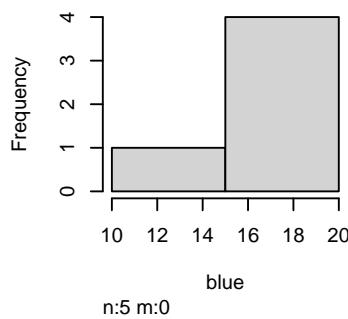
– How about max price?

```
max(mandms)
```

```
## [1] 30
```

- Let's Visualize Our Dataset - the Histogram

```
hist(mandms)
```



- Let's Save Our Dataset

- To save Rmd files as PDF, “tinytex” package of R should be installed for one time

```
{install.packages("tinytex")}  
tinytex::install_tinytex()
```

- After tinytext install, we “Knit” our file from above (look for the knitting object above)