

# 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
```

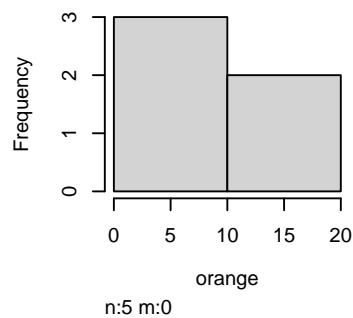
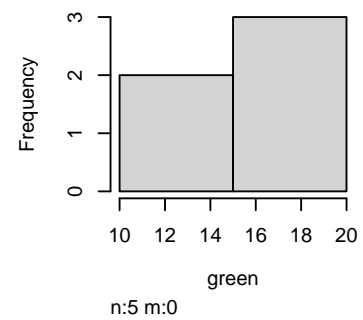
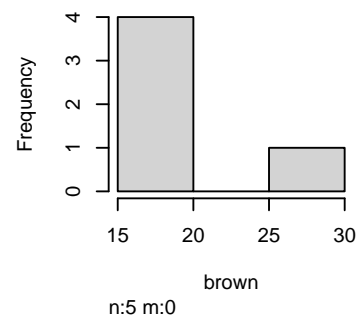
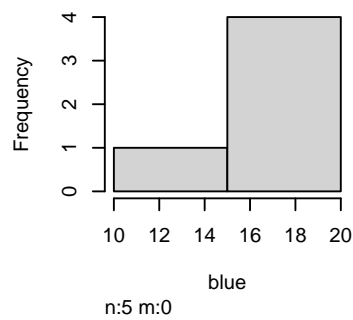
– How about max price?

```
max(mandms)
```

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

- **Let's Visualize Our Dataset - the Histogram**

```
hist(mandms)
```



- **Let's Save Our Dataset**

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

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

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