Example of an RMarkdown File

Sally Ragsdale - SDS 313 UT Austin

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1. Dataset Information

The **shelter.csv** dataset contains variables collected from adult cats and dogs that were adopted at the Austin Animal shelter over the course of one month.

First, you'll want to import in the dataset (note that the default working directory is the folder in which this .Rmd file is located):

```
shelter <- read.csv("shelter.csv")
```

Let's get a summary of the variables:

```
summary(shelter)
```

```
##        ID         Intake.Type          Species             Sex
##  Min.   :  1.0   Length:119         Length:119         Length:119
##  1st Qu.: 30.5   Class :character   Class :character   Class :character
##  Median : 60.0   Mode  :character   Mode  :character   Mode  :character
##  Mean   : 60.0
##  3rd Qu.: 89.5
##  Max.   :119.0
##    Age.Intake      Condition         Intake.Weight    Adopted.Weight
##  Min.   : 2.000   Length:119         Min.   : 0.300   Min.   : 0.30
##  1st Qu.: 2.000   Class :character   1st Qu.: 2.875   1st Qu.: 3.65
##  Median : 3.000   Mode  :character   Median : 9.000   Median : 9.50
##  Mean   : 4.059                      Mean   :15.649   Mean   :15.93
##  3rd Qu.: 5.000                      3rd Qu.:15.900   3rd Qu.:16.00
##  Max.   :15.000                      Max.   :71.500   Max.   :71.60
##  Days.to.Adoption
##  Min.   : 4.00
##  1st Qu.:23.50
##  Median :35.00
##  Mean   :37.71
##  3rd Qu.:50.50
##  Max.   :86.00
```

2. Making Tables

You can create a table manually like the example below, which describes the variables in this dataset:

Variable	Description
ID	Unique identifier
Intake.Type	How animal arrived at the shelter

Variable	Description
Species	Dog or cat
Sex	Female or male
Age.Intake	Age (years) at intake
Condition	Animal's health condition
Intake.Weight	Weight (lbs) at intake
Adopted.Weight	Weight (lbs) at adoption
Days.to.Adoption	Days spent in the shelter

3. Code and Output

Code is run linearly (dependent on what is run above):

```
mean(shelter$Days.to.Adoption)
```

```
## [1] 37.70588
```

You can suppress the code:

```
## [1] 37.70588
```

You can also suppress the output:

```
mean(shelter$Days.to.Adoption)
```

4. Graphs and Embedding Code

On average, animals spent 37.7058824 days before being adopted.

```
# Make a histogram of days to adopt variable
library(ggplot2)
ggplot(shelter, aes(x = Days.to.Adoption)) + geom_histogram(binwidth = 10,
    col = "black", fill = "maroon") + xlab("Number of Days to Adoption") +
    ggtitle("Distribution of Days to Adoption") + theme_classic()
```