The chickwts example

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2020 - 03 - 15

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0.1 R Markdown

This is an R Markdown document. Markdown is a simple formatting syntax for authoring HTML, PDF, and MS Word documents. For more details on using R Markdown see http://rmarkdown.rstudio.com.

When you click the **Knit** button a document will be generated that includes both content as well as the output of any embedded R code chunks within the document. You can embed an R code chunk like this:

0.2 Chicken Weights by Feed Type

Newly hatched 71 chicks were randomly allocated into six groups, and each group was given a different feed supplement. Their weights in grams after six weeks are recorded along with feed types.

str(chickwts)

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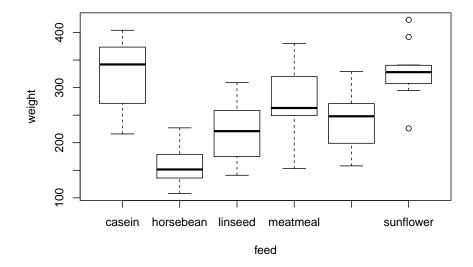
```
## 'data.frame': 71 obs. of 2 variables:
## $ weight: num 179 160 136 227 217 168 108 124 143 140 ...
## $ feed : Factor w/ 6 levels "casein", "horsebean", ...: 2 2 2 2 2 2 2 2 2 ...
```

0.3 Computing numerical summaries

```
## feed weight
## 1 casein 323.5833
## 2 horsebean 160.2000
## 3 linseed 218.7500
## 4 meatmeal 276.9091
## 5 soybean 246.4286
## 6 sunflower 328.9167
```

0.4 Including Plots

You can also embed plots, for example:



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Note that the ${\tt echo}$ = FALSE parameter was added to the code chunk to prevent printing of the R code that generated the plot.

0.5 One-way analysis of variance

We can compare the effects of diet supplements on chick weights.

0.5.1 The end