Week10_hw

Week 10_hw

1. Use code chunk options eval, include, echo, results, dependson in at least one code chunk to illustrate your knowledge and mastery of the code chunk options.

   # A code chunk with include = FALSE was used to upload packages but not present any code and results

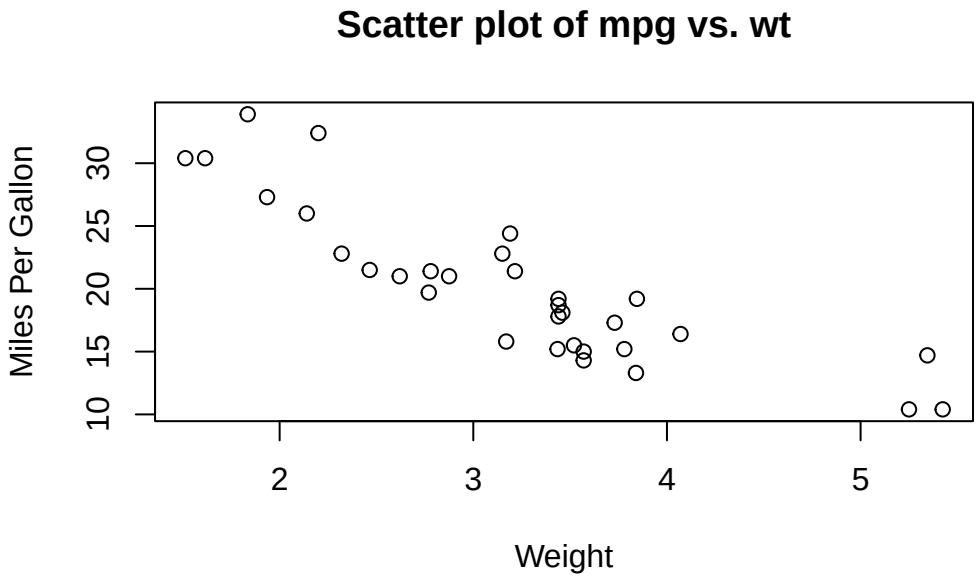
   # This is an analysis code chunk with eval = FALSE. We used it to show the simple way to explore the relationship between two variables in mtcars without executing it.

   ```
   plot(mtcars$wt, mtcars$mpg,
        xlab = "Weight", ylab = "Miles Per Gallon",
        main = "Scatter plot of mpg vs. wt")
   ```

   # This is an analysis code chunk with results = "hide".

   ```
   summary(mtcars)
   ```

   #This is an analysis code chunk with echo=FALSE, as I only want to see the Scatterplot without showing code in the presentation



setup data

```
data <- c(1, 2, 3, 4, 5)
```

This is an analysis code chunk with dependson, so the current code chunk depends on the results from another code chunk as specified.

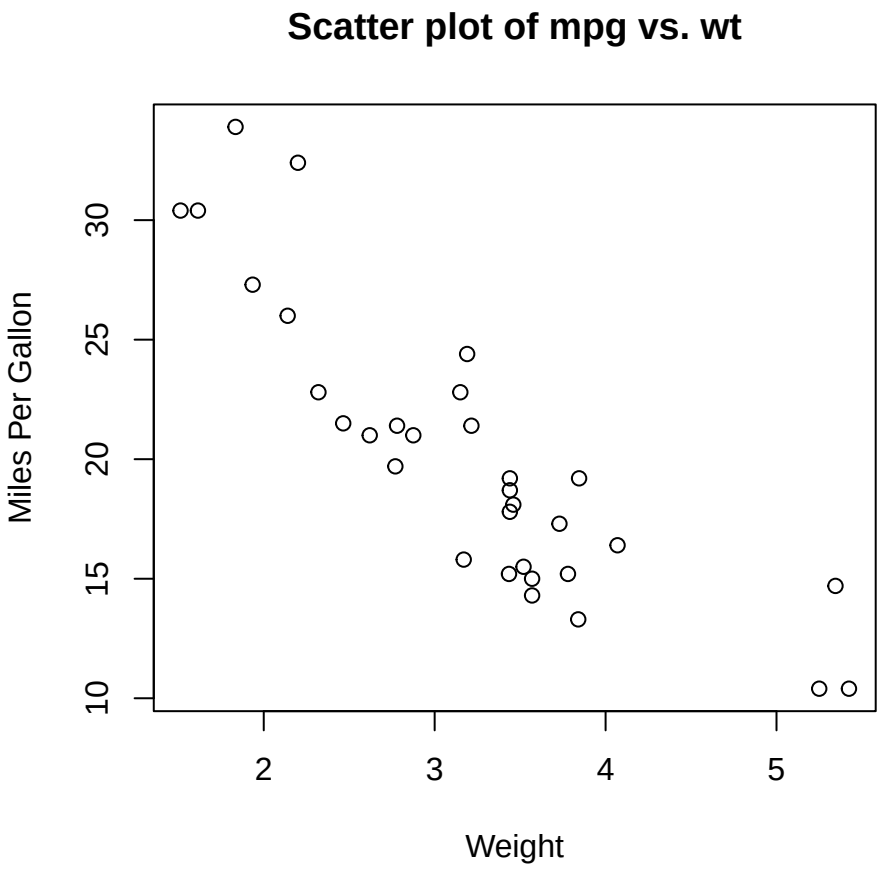
```
mean(data)
```

```
[1] 3
```

2. Pick one new code chunk not discussed in the book and describe and illustrate how to use it.

   # This is an analysis code chunk with fig.width and fig.height. This is very useful for consistency in gene differential expression visualization to Set the width and height of figures, respectively.

```
plot(mtcars$wt, mtcars$mpg,
     xlab = "Weight", ylab = "Miles Per Gallon",
     main = "Scatter plot of mpg vs. wt")
```

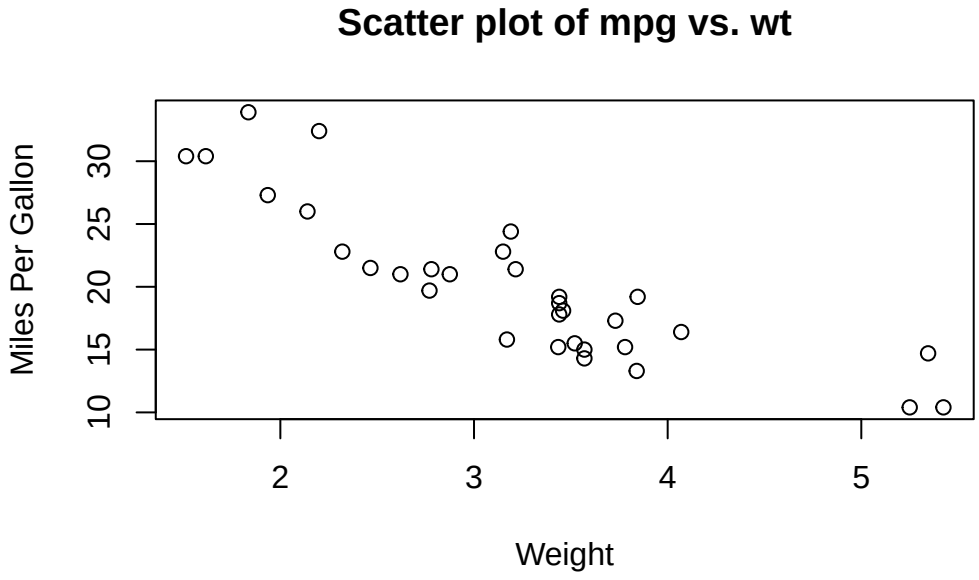


3. Save an object with save()

```
# The previous setup data has been saved here.
save(data, file = "data.RData")
```

4. Save an R script and load it in a new code chunk.

```
# Run main analysis
source("scatter.R")
```



5. Write one statement using the inline static code "\texttt" and with \verb texttt{This is week 10 homework}.

   \verb|\\texttt|.

   \verb|Look at this example.|