FirstMarkdown

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R Markdown

This is my first R markdown!!!!

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a)

```
getwd()
```

```
## [1] "C:/Users/noahe/Desktop/MGSC310"
```

```
setwd("C:/Users/noahe/Desktop/MGSC310")
```

b)

```
id <-  seq(1:150)
id[2]
```

```
## [1] 2
```

c)

```
set.seed(90)
netflix <- rnorm(150,20,5)
netflix
```

```
##   [1] 20.385906 19.244696 15.579618 16.397034 23.703715 22.212952 25.027551
##   [8] 24.572095 17.168057 31.965480 15.974147 19.588466 24.335927 28.295988
##  [15] 18.795757 19.701200 18.284857 24.370541 24.898852 16.197625 17.058645
##  [22] 19.342288 26.579621 13.544923 18.139600 20.645770 18.009661 24.054915
##  [29] 16.890180 24.875147 17.609531 23.384685 10.149179 25.091652 18.250648
##  [36] 20.151165 19.117493 13.586273 17.576323 26.026054 25.793870 18.801278
##  [43]  6.539268 34.078095 20.285644 20.280632 19.505321 20.051830 20.806458
##  [50] 22.269264 24.459493 19.899853 18.008048 15.958150 19.456719 25.174025
##  [57] 22.574037 27.853997 18.555883 24.169772 15.774827 13.169995 24.403845
##  [64] 25.651877 21.136133 20.441652  6.854432 21.862002 17.644192 14.473709
##  [71] 22.627705 28.853621 21.416135 17.502003 24.220248 13.404915 14.172533
##  [78] 23.795026 21.219361 26.395789 16.668500 20.375641 21.413229 18.838162
##  [85] 27.372930 17.571023 16.614780 18.306277 24.138565 13.928535 24.553530
##  [92] 11.697048 11.513526 18.549636 13.747887 13.993225 20.432987 18.883589
##  [99] 14.228255 20.873204 15.694946 18.543355 19.971114 17.219581 10.469453
## [106] 13.420984 24.708868 21.036992 12.651605 20.236794 25.773881 13.249788
## [113] 15.338489 30.553125 19.944391 13.575749 17.882465 18.649412 25.538918
## [120] 21.824672 19.479902 23.842780 16.380496 23.609488 15.798955 19.631662
## [127] 24.844887 18.025538 12.273527 11.233493 14.131484 21.079242 13.577015
## [134] 30.024209 24.450580 16.327380 23.451325 23.615403  8.740586 17.654016
```

```
## [141] 21.317313 14.355712 21.626907 27.473962 17.086826 19.496200 12.083710
## [148] 18.101754 20.289159 17.030770
```

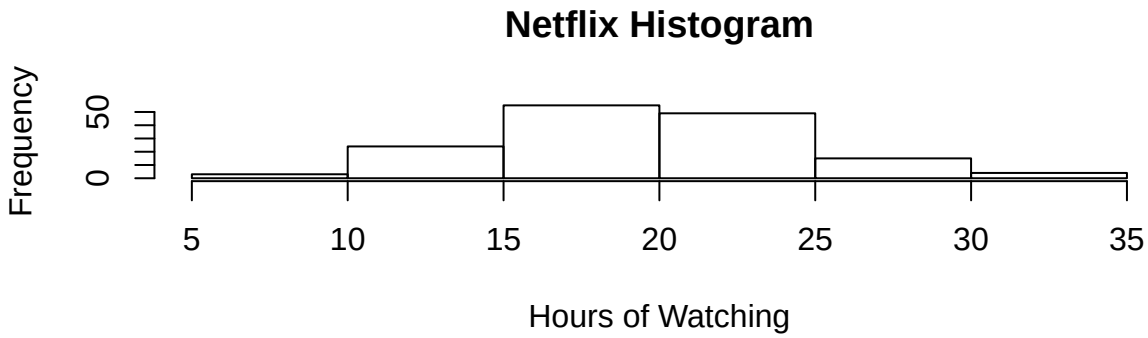
d)

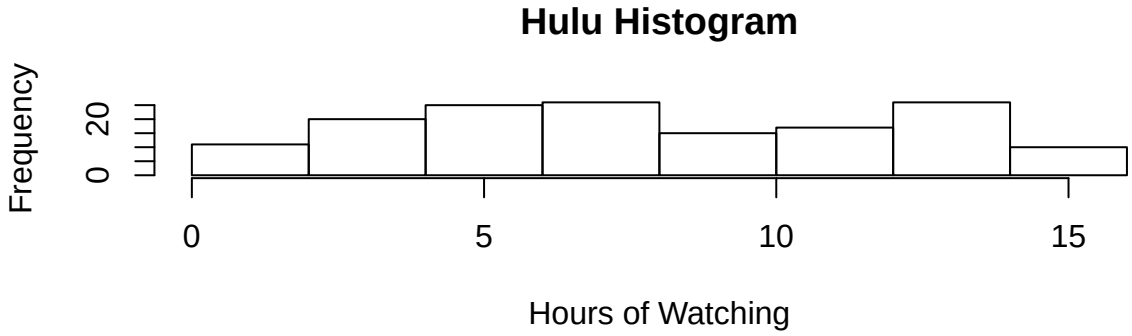
```
set.seed(90)
hulu<-runif(150,0,15)
hulu
```

```
##   [1]  7.96140504 13.27604679  6.59945781 14.13436176  2.82491238
##   [6]  9.83296530  3.53369919  5.79509402 11.55863029  7.16704215
##  [11] 10.06453435  0.25879827 12.64011536  8.44900203 12.29627440
##  [16]  4.70650006  4.28347194  7.38461828 14.87469856  3.84236068
##  [21]  3.15540903 13.30146746  7.00802015  3.90717598 12.10619678
##  [26]  7.57665958 14.27193013 13.35966435  6.07254381 13.87898146
##  [31]  7.14260061  1.17731649  5.48682748  3.65928687 12.13455540
##  [36]  7.30637585 12.54600403  5.59339034  3.35228045  2.83030967
##  [41]  4.17262782 12.25036946  6.71509737  3.58778194 13.58850396
##  [46]  6.65070472  1.47523773  8.64421387  5.32375011 13.40600499
##  [51]  8.27073125  0.11823837  5.17935113 14.64514949 11.86968428
##  [56]  7.96308534  4.00474196 13.94835921 12.52840716  9.93938971
##  [61]  4.74437543 10.35733844 11.26165533  9.25104945  0.36614670
##  [66]  2.21047089 12.68609249 10.69869140  5.44826984  6.33263226
##  [71]  7.68089068  4.27576049  6.44924984 12.94014098  1.49685945
##  [76]  9.08061638  4.70898012  2.23832221 13.28908554 11.36663388
##  [81] 13.15088757  7.11809447  6.07896328  5.99074248  0.05324541
##  [86]  0.31149329 14.96348745  7.62390745  7.84168028 11.52545693
##  [91]  7.83569198 12.62676415  6.90891923  2.52799980  7.56203086
##  [96]  2.18332964  8.46102214 10.85342454 10.12548877  5.20773237
## [101] 12.20664504  3.57309129  7.38014892  7.39987699  5.17756787
## [106]  5.33846757  3.14158187  1.15345485  6.85106330  8.30462299
## [111] 12.74430024 13.63951922 10.44984314  3.66250405 14.12828053
## [116]  2.33811416  5.79537393 14.12830298 11.96770001  7.49329992
## [121]  2.98568648  4.51450945  1.28954001 10.41055284 12.16167836
## [126]  9.30392466 13.06261464  4.37264410  8.84814390 11.49074142
## [131]  8.02789463  9.85700093  0.06420576 14.92529741  9.67803975
## [136]  5.94059549  4.78143959  2.75362709  2.01785791 13.03321566
## [141] 10.50594659  4.97098687 14.42545079  5.18763107  9.17247902
## [146] 10.85632626  4.63017876 14.65729823 12.01018744 10.09355265
```

e)

```
par(mfrow  = c(2,1))
hist(netflix, main = "Netflix Histogram", xlab = "Hours of Watching")
hist(hulu, main = "Hulu Histogram", xlab="Hours of Watching")
```





f)

```
subscription <- c("Yes","No")
subscription <- factor(subscription)
subscription
```

```
## [1] Yes No
## Levels: No Yes
```

```
is.factor(subscription)
```

```
## [1] TRUE
```

g)

```
set.seed(90)
amazon <- sample(subscription, size = 150,replace = TRUE)
amazon[0:20]
```

```
##  [1] No  No  No  No  Yes Yes Yes No  Yes No  Yes Yes No  Yes No  No  Yes
## [18] No  Yes No
## Levels: No Yes
```

h

```
amazon == "Yes"
```

```
##   [1] FALSE FALSE FALSE FALSE  TRUE  TRUE  TRUE FALSE  TRUE FALSE  TRUE
```

```
##  [12]  TRUE FALSE  TRUE FALSE FALSE  TRUE FALSE  TRUE FALSE  TRUE  TRUE
##  [23]  TRUE  TRUE  TRUE  TRUE FALSE FALSE FALSE  TRUE  TRUE FALSE  TRUE
##  [34] FALSE  TRUE  TRUE  TRUE FALSE  TRUE FALSE  TRUE  TRUE  TRUE FALSE
##  [45] FALSE FALSE FALSE FALSE FALSE FALSE FALSE  TRUE  TRUE FALSE FALSE
##  [56] FALSE  TRUE FALSE FALSE FALSE  TRUE FALSE  TRUE  TRUE FALSE FALSE
##  [67]  TRUE FALSE FALSE FALSE  TRUE FALSE FALSE  TRUE FALSE FALSE FALSE
##  [78] FALSE  TRUE FALSE FALSE FALSE FALSE FALSE  TRUE  TRUE  TRUE FALSE
##  [89]  TRUE FALSE  TRUE FALSE FALSE  TRUE FALSE FALSE  TRUE FALSE  TRUE
## [100]  TRUE FALSE FALSE  TRUE  TRUE FALSE  TRUE FALSE FALSE  TRUE FALSE
## [111]  TRUE FALSE  TRUE FALSE FALSE FALSE  TRUE FALSE FALSE  TRUE  TRUE
## [122]  TRUE  TRUE  TRUE FALSE FALSE FALSE  TRUE  TRUE FALSE  TRUE FALSE
## [133]  TRUE FALSE  TRUE  TRUE  TRUE  TRUE  TRUE  TRUE FALSE  TRUE FALSE
## [144] FALSE FALSE  TRUE FALSE  TRUE FALSE FALSE
```

```
totalSubscriptions = sum(amazon == "Yes")
```

i

```
sum((amazon == "No") & (netflix >20))
```

```
## [1] 41
```

j

```
sum((hulu<12) & (netflix <12) & (amazon == "Yes"))
```

```
## [1] 3
```

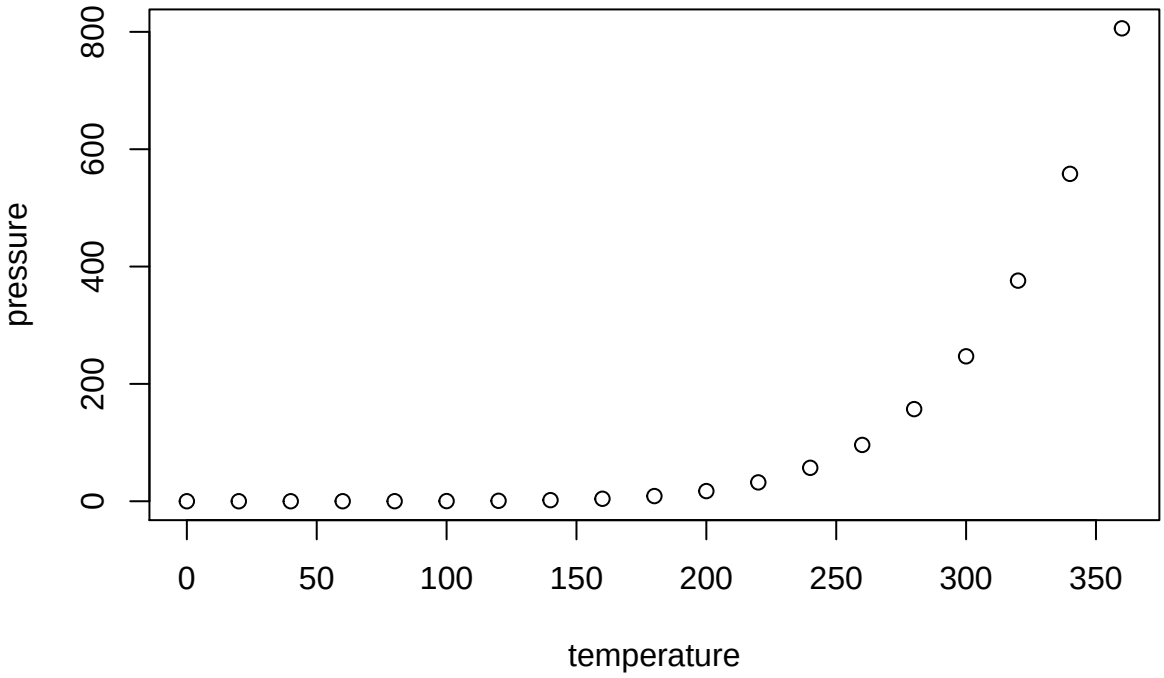
k

```
id[amazon == "Yes"]
```

```
##  [1]   5   6   7   9  11  12  14  17  19  21  22  23  24  25  26  30  31
## [18]  33  35  36  37  39  41  42  43  52  53  57  61  63  64  67  71  74
## [35]  79  85  86  87  89  91  94  97  99 100 103 104 106 109 111 113 117
## [52] 120 121 122 123 124 128 129 131 133 135 136 137 138 139 140 142 146
## [69] 148
```

Including Plots

You can also embed plots, for example:



Note that the `echo = FALSE` parameter was added to the code chunk to prevent printing of the R code that generated the plot.