R.r

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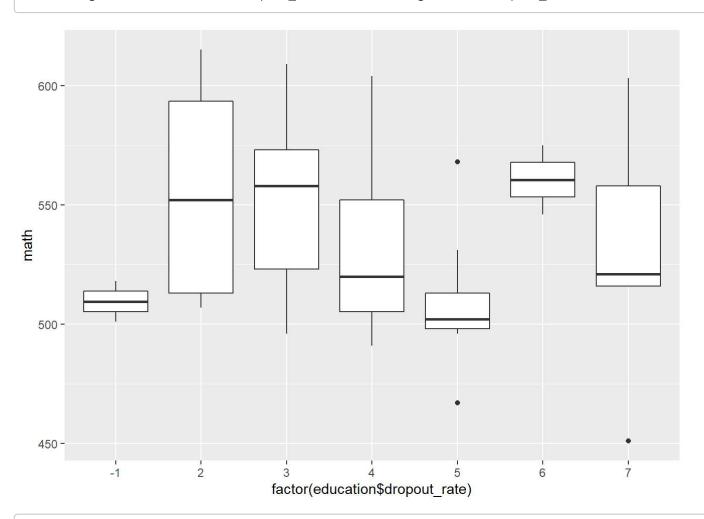
```
library("ggplot2")
library("readr")
## Warning: package 'readr' was built under R version 3.6.3
library("readxl")
library('reshape2')
## Warning: package 'reshape2' was built under R version 3.6.3
library('maps')
## Warning: package 'maps' was built under R version 3.6.3
library(dplyr)
## Warning: package 'dplyr' was built under R version 3.6.3
## Attaching package: 'dplyr'
## The following objects are masked from 'package:stats':
##
##
       filter, lag
## The following objects are masked from 'package:base':
##
##
       intersect, setdiff, setequal, union
library('tidyr')
## Warning: package 'tidyr' was built under R version 3.6.3
##
## Attaching package: 'tidyr'
```

```
## The following object is masked from 'package:reshape2':
##
## smiths
```

```
birth = read.csv("C:/Users/danie/OneDrive/DSC-640/week9_10/ex6-2/birth-rate.csv")
crime <- read.csv("C:/Users/danie/OneDrive/DSC-640/week9_10/ex6-2/crimeratesbystate-formatted.cs
v")
education <- read.csv("C:/Users/danie/OneDrive/DSC-640/week9_10/ex6-2/education.csv")
education$dropout_rate <- as.integer(education$dropout_rate)

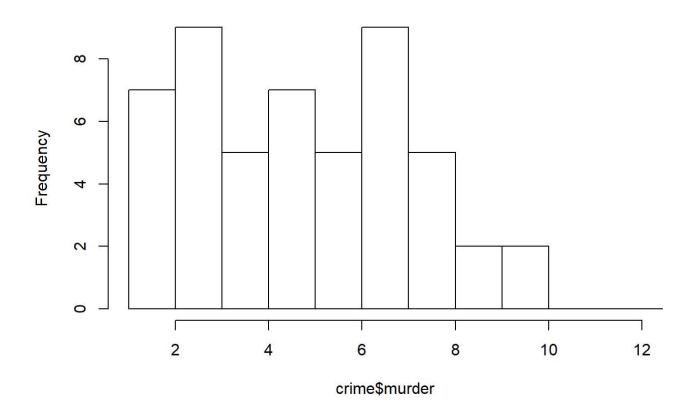
ggplot(education, aes(x=factor(education$dropout_rate), y=math)) +
    geom_boxplot()</pre>
```

Warning: Use of `education\$dropout_rate` is discouraged. Use `dropout_rate` instead.

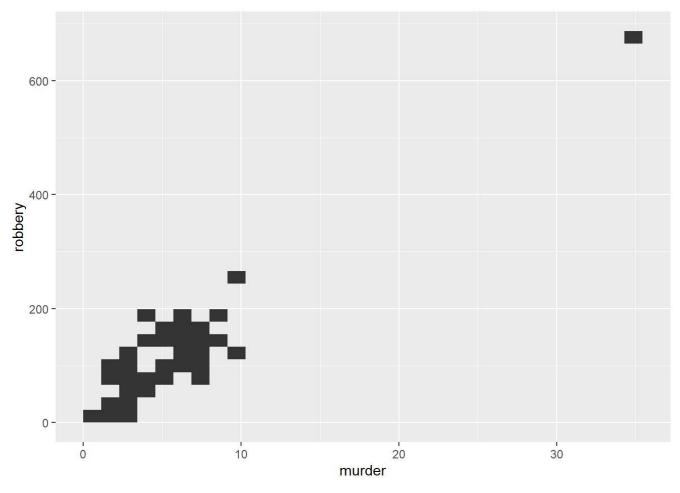


hist(crime\$murder, xlim=c(1, 12), breaks= 25)

Histogram of crime\$murder



```
ggplot(crime, aes(x=murder, y=robbery, fill = murder)) +
  geom_bin_2d()
```



```
##
       rank value
                       name
## 1
      Great
                 3 Alabama
## 2
       Okay
                 5 Alabama
## 3
        Bad
                30 Alabama
## 4
      Great
                 3 Alaska
## 5
                 5 Alaska
       Okay
## 6
        Bad
                30 Alaska
## 7
      Great
                 3 Arizona
                 5 Arizona
## 8
       0kay
## 9
        Bad
                30 Arizona
## 10 Great
                 3 Arkansas
```

