Graphs with R

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Graphs with R: Exercises

First we need to load the ggplot2 library.

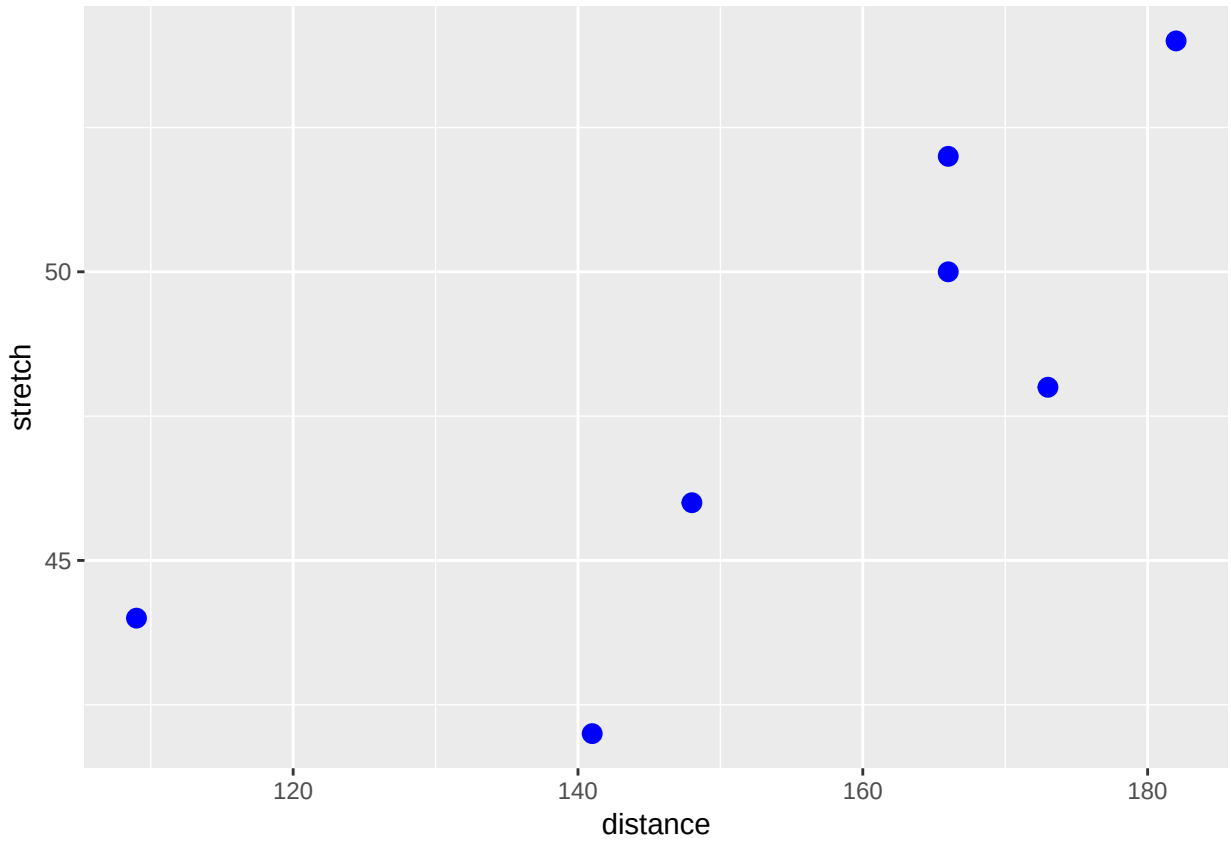
```
library(ggplot2)
```

1) Plot distance against stretch.

```
ex1 <- data.frame(stretch=c(46,54,48,50,44,42,52), distance=c(148,182,173,166,109,141,166))
ex1
```

```
##   stretch distance
## 1      46      148
## 2      54      182
## 3      48      173
## 4      50      166
## 5      44      109
## 6      42      141
## 7      52      166
```

```
ggplot(ex1, aes(distance, stretch)) + geom_point(col="blue", size=3)
```



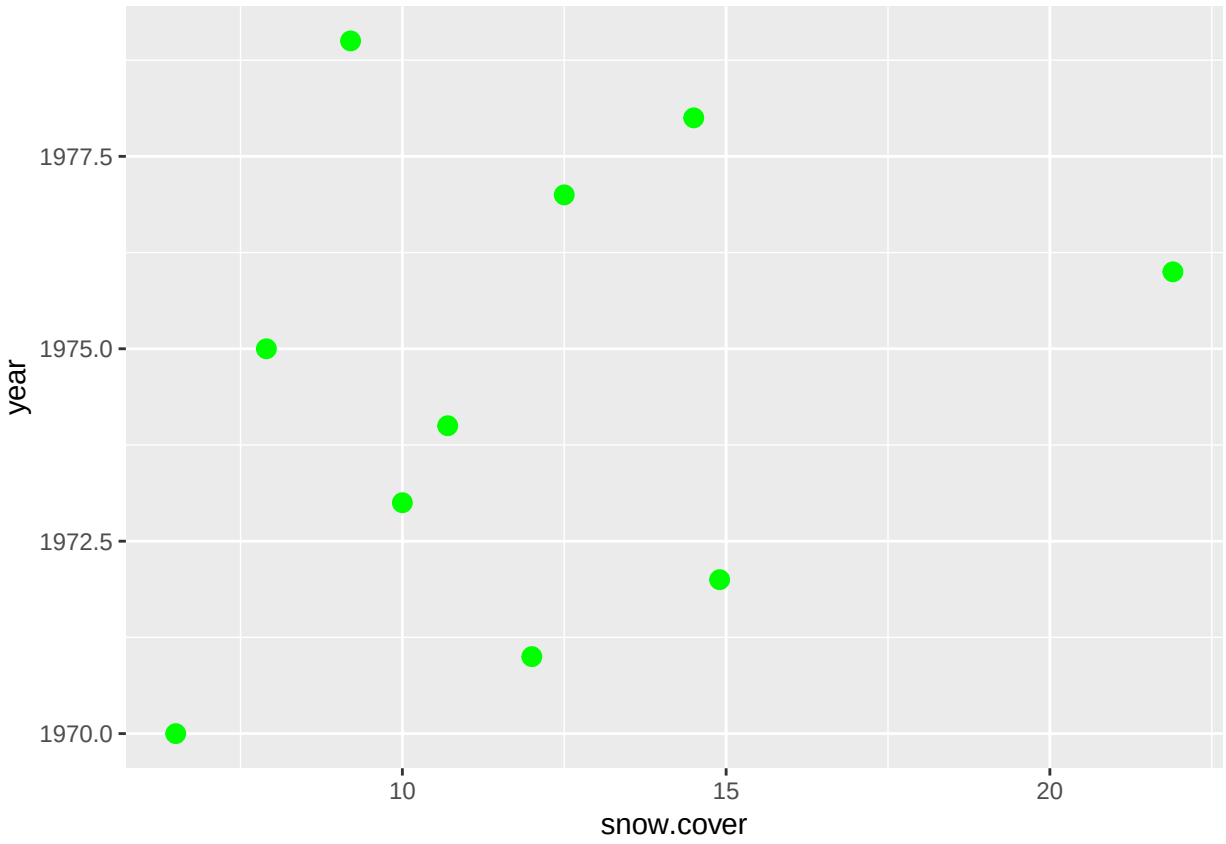
2) The follwing data have ten observations taken during the years 1970-79, on October snow cover for Eurasia (snow cover is in millions of square kilometers).

```
ex2 <- data.frame(year=c(1970:1979), snow.cover=c(6.5,12.0,14.9,10.0,10.7,7.9,21.9,12.5,14.5,9.2))
ex2
```

```
##    year snow.cover
## 1  1970        6.5
## 2  1971       12.0
## 3  1972       14.9
## 4  1973       10.0
## 5  1974       10.7
## 6  1975        7.9
## 7  1976       21.9
## 8  1977       12.5
## 9  1978       14.5
## 10 1979        9.2
```

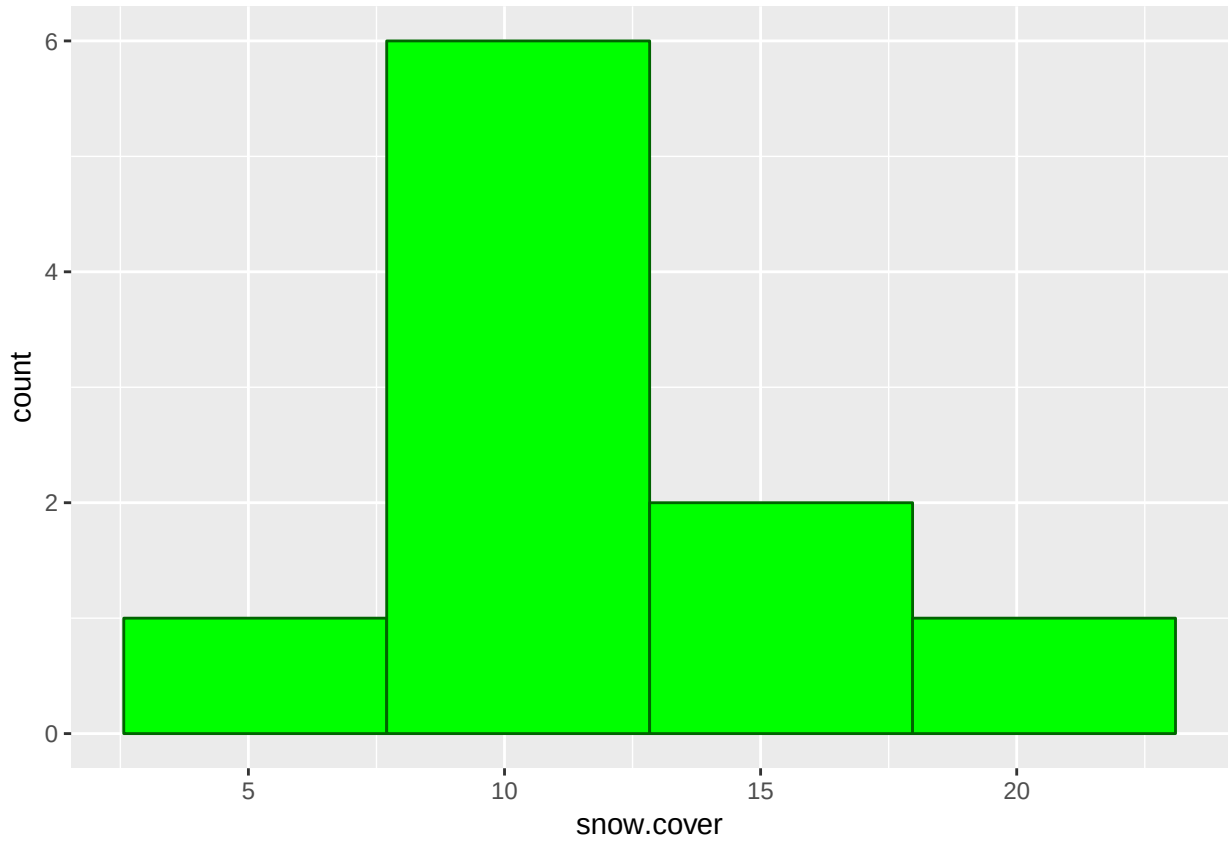
Plot snow.cover versus year.

```
ggplot(ex2, aes(snow.cover, year)) + geom_point(col="green", size=3)
```



Plot a histogram of the snow.cover values.

```
ggplot(ex2, aes(snow.cover)) + geom_histogram(fill="green", col="darkgreen", bins = 4)
```


6
4
2
0
count
5
10
15
20
snow.cover