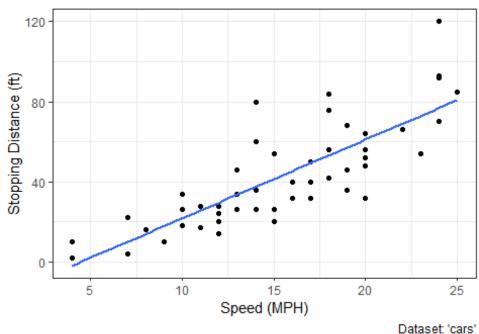
1.R

Noah

2022-02-06

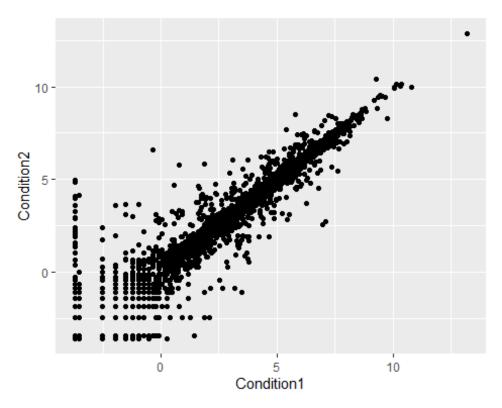
Speed and Stopping Distances of Cars

Your informative subtitle text here

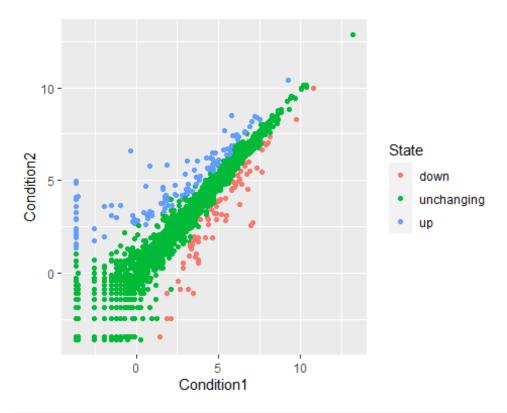


```
url <- "https://bioboot.github.io/bimm143_S20/class-
material/up_down_expression.txt"
genes <- read.delim(url)
head(genes)</pre>
```

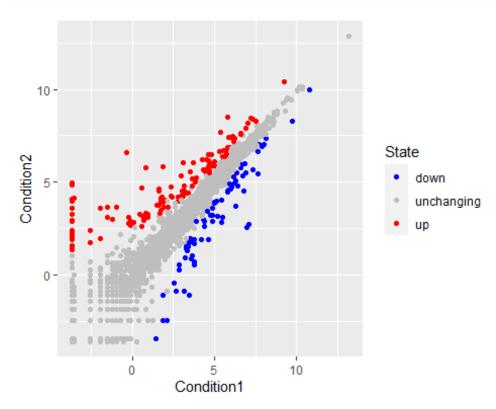
```
Gene Condition1 Condition2
##
                                           State
## 1
          A4GNT -3.6808610 -3.4401355 unchanging
## 2
          AAAS 4.5479580 4.3864126 unchanging
          AASDH 3.7190695 3.4787276 unchanging
## 3
## 4
          AATF 5.0784720 5.0151916 unchanging
## 5
           AATK 0.4711421 0.5598642 unchanging
## 6 AB015752.4 -3.6808610 -3.5921390 unchanging
nrow(genes)
## [1] 5196
colnames(genes)
## [1] "Gene"
                    "Condition1" "Condition2" "State"
ncol(genes)
## [1] 4
table(genes$State)
##
##
         down unchanging
                                 up
##
           72
                    4997
                                127
round(table(genes$State)/nrow(genes)*100,2)
##
##
         down unchanging
                                 up
##
         1.39
                   96.17
                               2.44
ggplot(genes)+
  aes(x=Condition1, y=Condition2)+
geom point()
```



```
p <- ggplot(genes) +
  aes(x=Condition1, y=Condition2, col=State) +
  geom_point()
p</pre>
```



p + scale_colour_manual(values=c("blue","gray","red"))



Gene Expresion Changes Upon Drug Treatment

