Lab5.R

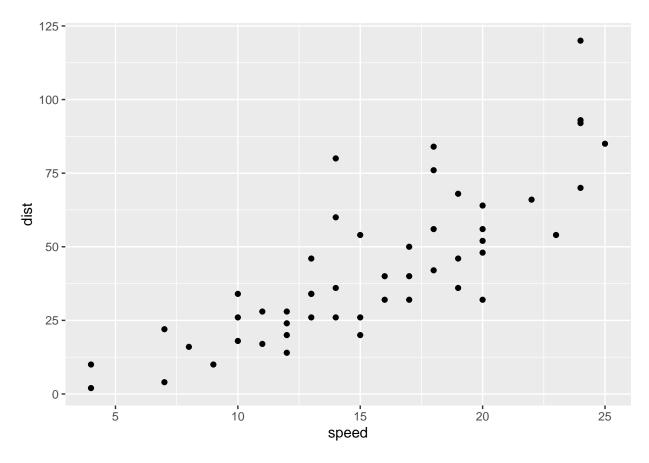
nickk

2021-10-18

#install.packages("ggplot2")

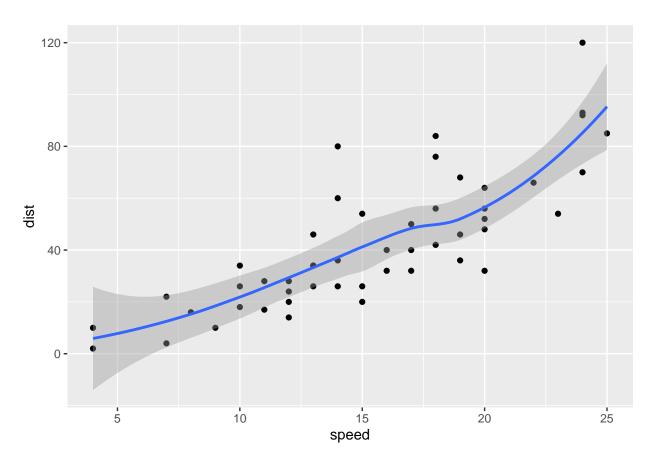
```
#Lets us use the ggplot2 package
library(ggplot2)
ggplot(cars)
```

```
#First plot
ggplot(cars) + aes(x=speed, y=dist) + geom_point()
```



```
#Second plot more geoms
ggplot(cars) + aes(x=speed, y=dist) + geom_point() + geom_smooth()
```

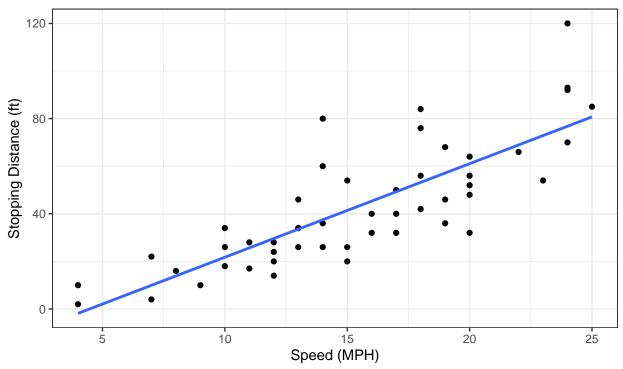
'geom_smooth()' using method = 'loess' and formula 'y ~ x'



'geom_smooth()' using formula 'y ~ x'

Speed and Stopping Distances of Cars

Informative subtitle

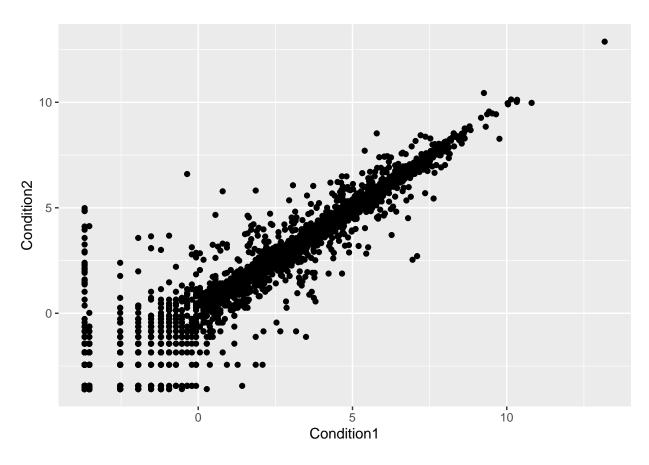


Dataset: 'cars'

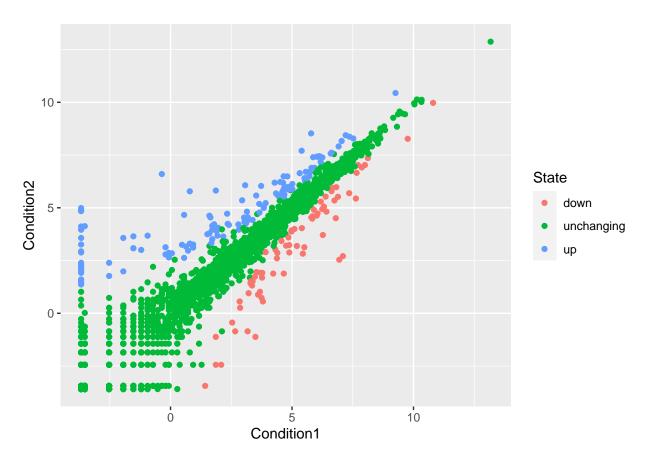
```
#Example data set, differential expression analysis
url <- "https://bioboot.github.io/bimm143_S20/class-material/up_down_expression.txt"
genes <- read.delim(url)
head(genes)</pre>
```

```
## Gene Condition1 Condition2 State
## 1 A4GNT -3.6808610 -3.4401355 unchanging
## 2 AAAS 4.5479580 4.3864126 unchanging
## 3 AASDH 3.7190695 3.4787276 unchanging
## 4 AATF 5.0784720 5.0151916 unchanging
## 5 AATK 0.4711421 0.5598642 unchanging
## 6 AB015752.4 -3.6808610 -3.5921390 unchanging
```

```
#Genes plot
ggplot(genes) + aes(x=Condition1, y = Condition2) + geom_point()
```



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



```
#Specify desired colors
p + scale_colour_manual( values=c("blue", "gray", "red") )
```

