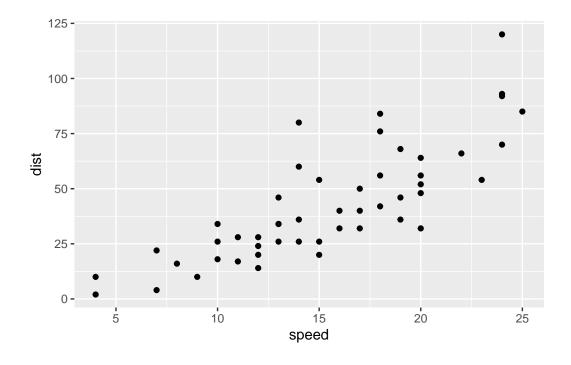
Class 05: Data Visualization with GGPLOT

Jordan Laxa

```
# Install packages -> install.packages("ggplot2")
# Load packages
library(ggplot2)

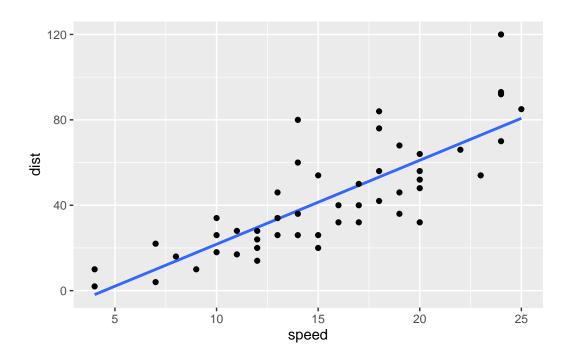
# Scatterplot of Cars data
ggplot(cars) + aes(x=speed, y=dist) +geom_point()
```



```
# Cars plot with geom_smooth() and geom_point()
ggplot(cars) + aes(x=speed, y=dist) + geom_smooth(method="lm", se=FALSE) + geom_point()
```

Plot with custom settings

p



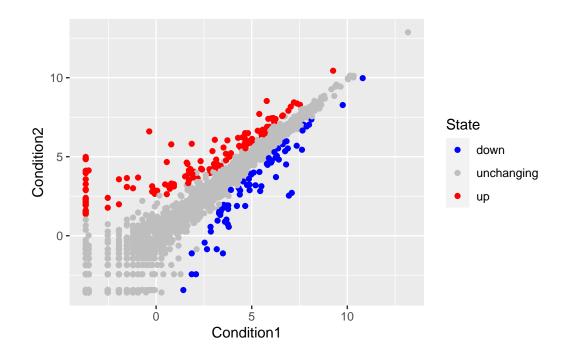
```
# Read an input file
  read.delim

function (file, header = TRUE, sep = "\t", quote = "\"", dec = ".",
    fill = TRUE, comment.char = "", ...)

read.table(file = file, header = header, sep = sep, quote = quote,
    dec = dec, fill = fill, comment.char = comment.char, ...)

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

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



Plot with labs setting
p + labs(title="Gene Expression Changes Upon Drug Treament", x="Control (no drug)", y="Drug")

