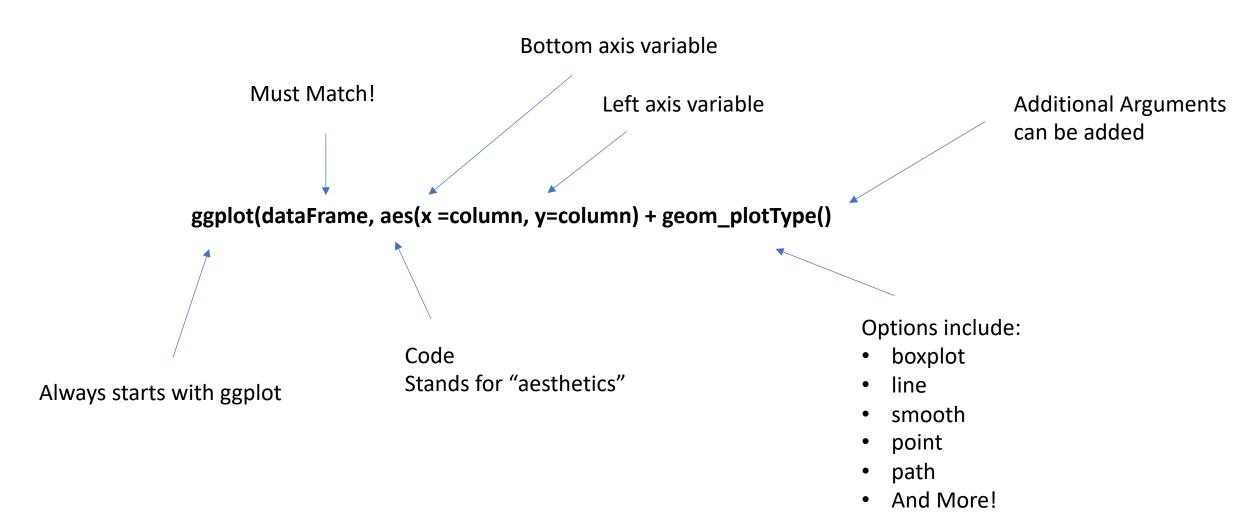
# Anatomy of a ggplot

# Load the Library!!

library("ggplot2")

# The Very Basics



## Changing a Variable Type for a Plot

Additional close parenthesis

ggplot(dataFrame, aes(x =type(column), y=column)) + geom\_plotType()

Options include:

- factor
- date
- And More!

Column name in parentheses

# Changing the Scaling

Select x or y for axis

ggplot(dataFrame, aes(x =type(column), y=column)) + geom\_plotType() + scale\_y\_log10()

• log

Code

• log10

To make smaller:

Options to make bigger:

• sqrt

And many more!

#### Labels

```
ggplot(dataFrame, aes(x =column, y=column) +

geom_plotType() +

xlab("xLabel") +

ylab("yLabel") +

ggititle("GraphTitle")

Text must be in

parentheses and quotes
```

## Plotting with Color

Name

Additional factor variable Colors randomly assigned

## Plotting with Size

**Argument Name** 

Use within aes()

Additional factor variable Sizes assigned

### **Plotting with Transparency**

**Argument Name** 

Use within aes()

Additional factor variable Transparencies assigned

## Plotting with Multiple Graphs

From the "gridExtra" package

grid.arrange(plot1, plot2, ncol=1) Number indicates vertical or horizontal

Named ggplots already created

**Argument Name**