## Homework #1

Group 4

5/10/2020

## First, let's import the required libraries

```
library(ggpubr)
library(dplyr)

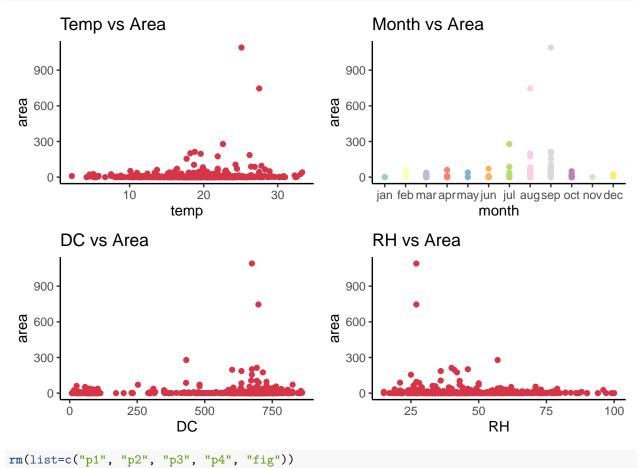
##
## Attaching package: 'dplyr'

## The following objects are masked from 'package:stats':
##
## filter, lag
## The following objects are masked from 'package:base':
##
## intersect, setdiff, setequal, union
library(RColorBrewer)
```

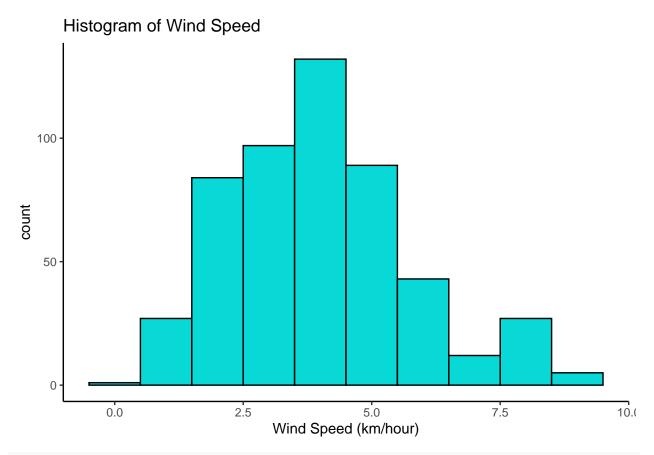
## Problem 1

(a) Plot area vs. temp, area vs. month, area vs. DC, area vs. RH for January through December combined in one graph. Hint: Place area on Y axis and use 2x2 matrix to place the plots adjacent to each other.

```
# Import the Dataframe
forestfires <- data.frame(read.csv("./data/forestfires.csv"), stringsAsFactors = FALSE)
# Convert the month column into factors and sort from Jan-Dec
forestfires$month <- factor(forestfires$month,</pre>
                            levels = c("jan", "feb", "mar",
                                        "apr", "may", "jun",
                                       "jul", "aug", "sep",
                                        "oct", "nov", "dec"))
# Create 4 scatter plots
p1 <- ggplot(forestfires, aes(temp, area)) + geom_point(color="#d63447") +
      ggtitle("Temp vs Area") +
      theme_classic()
p2 <- ggplot(forestfires, aes(month, area, color=month)) + geom_point() +
      scale_color_brewer(palette = "Set3") +
      theme classic() +
      theme(legend.position = "none") +
      ggtitle("Month vs Area")
p3 <- ggplot(forestfires, aes(DC, area)) + geom_point(color="#d63447") +
```



```
(b) Plot the histogram of wind speed (km/h).
```



rm(wind\_hist)