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.

```
forestfires <- data.frame(read.csv("./data/forestfires.csv"), stringsAsFactors = FALSE)</pre>
forestfires$month <- factor(forestfires$month,</pre>
                            levels = c("jan", "feb", "mar",
                                        "apr", "may", "jun",
                                        "jul", "aug", "sep",
                                        "oct", "nov", "dec"))
p1 <- ggplot(forestfires, aes(temp, area)) + geom_point(color="#d63447") +
      ggtitle("Temp vs Area")
p2 <- ggplot(forestfires, aes(month, area, color=month)) + geom_point() +
      scale_color_brewer(palette = "Set2") +
      theme(legend.position = "none") +
      ggtitle("Month vs Area")
p3 <- ggplot(forestfires, aes(DC, area)) + geom_point(color="#d63447") +
      ggtitle("DC vs Area")
p4 <- ggplot(forestfires, aes(RH, area)) + geom_point(color="#d63447") +
      ggtitle("RH vs Area")
fig <- ggarrange(p1, p2, p3, p4,
```

ncol=2, nrow=2)

Warning in RColorBrewer::brewer.pal(n, pal): n too large, allowed maximum for palette Set2 is 8
Returning the palette you asked for with that many colors

Warning: Removed 197 rows containing missing values (geom_point).

fig

