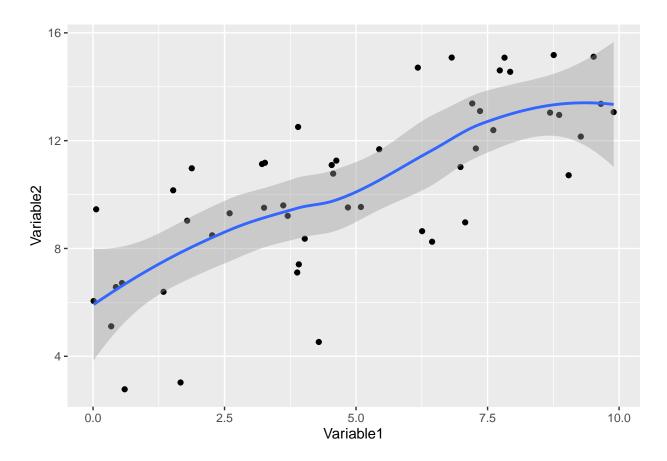
More ggplot Figures Peer Review

Jonathan Talbot

Problem 1

Create the figure in the solution for Problem 1, using the data included in the R Markdown file.

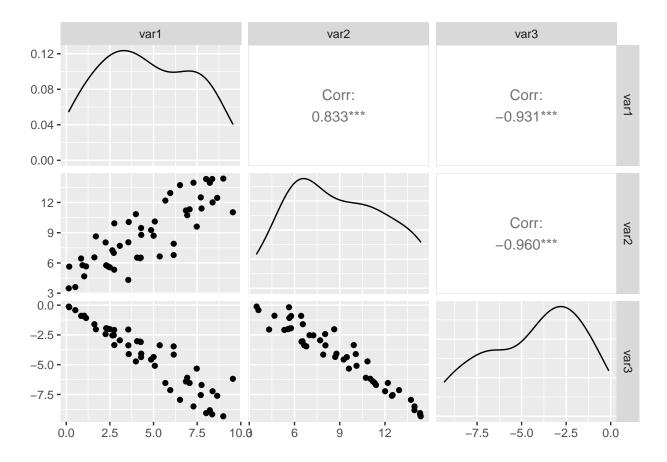
```
####Make sure you install any necessary libraries
#install.packages("ggplot2")
library(ggplot2)
####PUT YOUR CODE HERE
ggplot(data=dat1, mapping=aes(x=var1, y=var2))+
    geom_point()+
    geom_smooth()+
    labs(x="Variable1",y="Variable2")
```



Problem 2

Create the figure in the solution for Problem 2, using the data included in the R Markdown file.

```
####Make sure you load any necessary libraries
library("GGally")
####PUT YOUR CODE HERE
#var2 <- as.factor(var2)
ggpairs(dat2)#, mapping=aes(color=var2))</pre>
```



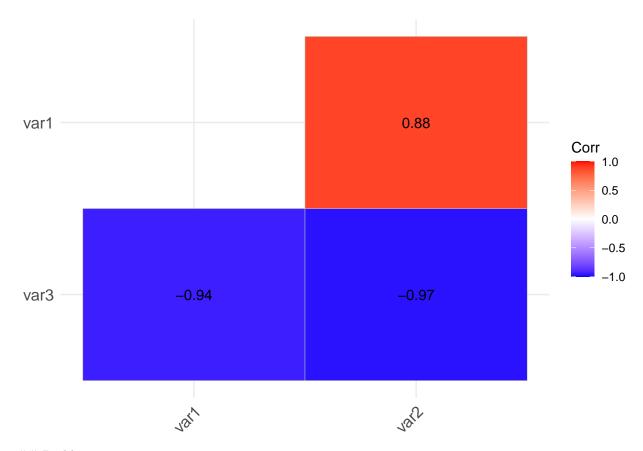
#geom_area(color=factor)

Problem 3

Create the figure in the solution for Problem 3, using the data included in the R Markdown file.

```
####Make sure you load any necessary libraries
#install.packages("ggcorrplot")
                                                    # Install ggcorrplot package
library(ggcorrplot)
                                                 # Load ggcorrplot
####PUT YOUR CODE HERE
corr <- round(cor(dat3), 1)</pre>
##
       var1 var2 var3
## var1 1.0 0.9 -0.9
## var2 0.9 1.0 -1.0
## var3 -0.9 -1.0 1.0
# Compute a matrix of correlation p-values
p.mat <- cor_pmat(dat3)</pre>
p.mat
##
                            var2
                                         var3
               var1
## var1 0.000000e+00 5.106500e-17 8.642971e-25
## var2 5.106500e-17 0.000000e+00 1.439856e-29
## var3 8.642971e-25 1.439856e-29 0.000000e+00
# Visualize the correlation matrix
# -----
# method = "square" or "circle"
ggcorrplot(cor(dat3), hc.order = TRUE, type = "upper", lab = TRUE)+
  coord_flip()
```

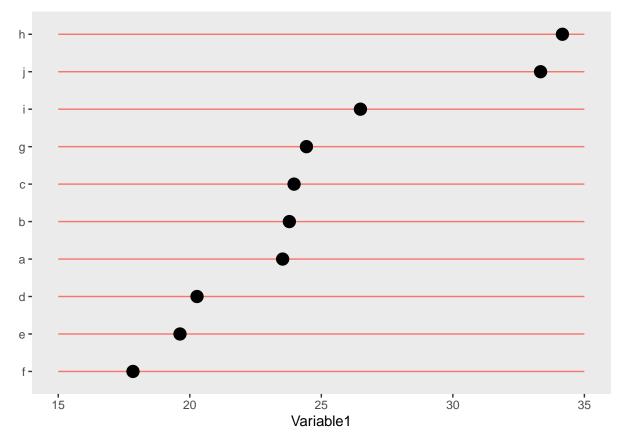
Coordinate system already present. Adding new coordinate system, which will replace the existing one



Problem 4

Create the figure in the solution for Problem 4, using the data included in the R Markdown file.

geom_path: Each group consists of only one observation. Do you need to adjust
the group aesthetic?



Problem 5

Create the figure in the solution for Problem 5, using the data included in the R Markdown file.

```
####Make sure you load any necessary libraries
####PUT YOUR CODE HERE
dat5
```

```
## # A tibble: 10 x 2
##
     names var1
##
     <chr> <dbl>
##
  1 a
            27.8
## 2 b
            23.6
## 3 c
            33.9
## 4 d
            25.9
## 5 e
            30.7
## 6 f
            27.1
## 7 g
            31.1
            26.2
## 8 h
## 9 i
            23.2
## 10 j
            30.5
```

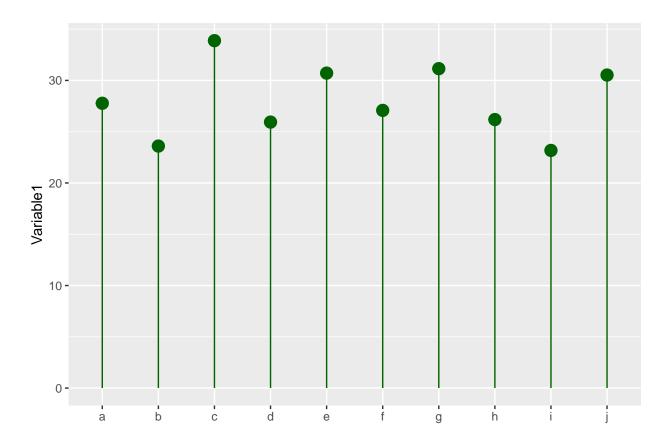
```
library(dplyr)

# create a vector with letters in the desired order
x <- c("i", "b", "d", "h", "f", "a", "j", "e", "g", "c")

dat5a <- dat5 %>%
slice(match(x, names))

dat5$names <- reorder(names, var1)

ggplot(dat5a, aes(x=names, y=var1))+ # reorder(names, var1))) +
    geom_segment( mapping=aes(xend=names, yend=0), col="#006400" ) +
    geom_point( size=4, color="#006400" ) +
    xlab("")+
    ylab("Variable1")+
    theme(legend.position = "none")</pre>
```



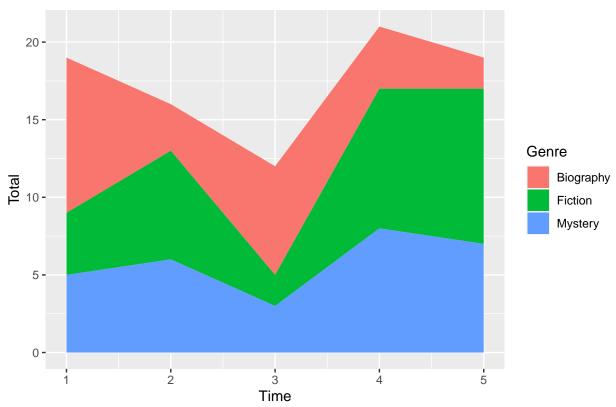
Problem 6

Create the figure in the solution for Problem 6, using the data included in the R Markdown file.

```
####Make sure you load any necessary libraries

####PUT YOUR CODE HERE
ggplot(books_checked_out)+
  geom_area(mapping=aes(x=Time,y=Total,fill=Genre))+
  ggtitle("Books Checked Out")
```

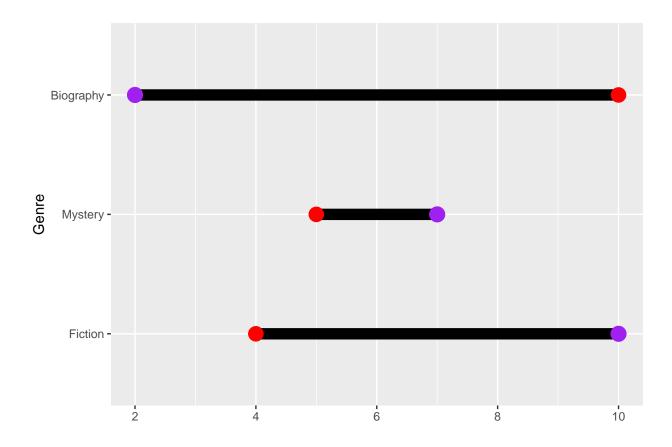
Books Checked Out



Problem 7

Create the figure in the solution for Problem 7, using the data included in the R Markdown file.

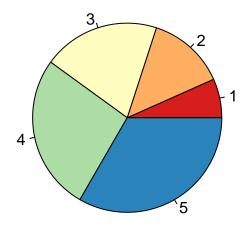
```
####Make sure you load any necessary libraries
#install.packages("SciencesPo")
library(ggalt)
#library(SciencesPo)
####PUT YOUR CODE HERE
# create a vector with letters in the desired order
x <- c("Biography", "Mystery", "Fiction")
books_checked_out2 <- books_checked_out2 %>%
  slice(match(x, Genre))
books_checked_out2
## # A tibble: 3 x 3
##
    Genre Time1 Time5
     <chr>
              <int> <int>
## 1 Biography
                10
                        2
                        7
## 2 Mystery
                  5
## 3 Fiction
                  4
                       10
ggplot(books_checked_out2, aes(x=Time1, xend=Time5,y= reorder(Genre,Time1-Time5))) +
 #geom_point(size=5)+
  geom_dumbbell(size=4, point.size.r=5, point.size.l=5, size=0.5, color="black",
               colour_x = "red", colour_xend = "purple",
               dot_guide=FALSE, dot_guide_size=0)+
  ylab("Genre")+
 xlab("")
## Warning: Duplicated aesthetics after name standardisation: size
## Warning: Ignoring unknown parameters: point.size.r, point.size.l
```



Problem 8

Create the figure in the solution for Problem 8, using the data included in the R Markdown file.

```
###HINT: check the Help file for pie to see how to specify the color to the my_color palette
library(RColorBrewer)
my_color<-brewer.pal(5,"Paired")
pie(pie_dat, col=c("#d71e1d","#fdae61","#fffdbf","#abdda4", "#2a83ba"))</pre>
```



```
####Make sure you load any necessary libraries
####PUT YOUR CODE HERE
```