Data Visualisation -Assignment3

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RPubs Link:

http://rpubs.com/ReshmaTaruni/435215 (http://rpubs.com/ReshmaTaruni/435215)

Data Source:

U.S. Department of Health & Human Services, (2018), Call Center Metrics for the Health Service System: Data and Resources, Available at: https://healthdata.gov/dataset/call-center-metrics-health-service-system (https://healthdata.gov/dataset/call-center-metrics-health-service-system)

News Story:

Article:SFGATE,(2018), 'California's deadly flu season could be worst in a decade', Available at:https://www.sfgate.com/health/article/lt-s-early-but-California-s-deadly-flu-12485751.php (https://www.sfgate.com/health/article/lt-s-early-but-California-s-deadly-flu-12485751.php)

Description:

This Visualisation is about Health Service System call Centre Metrics of city of San Fransisco and how there has been variations in the calls during and flu seasons.

```
#Required Packages
library(ggplot2)
library(shiny)
library(readr)
library(tidyr)
library(dplyr)
library(Hmisc)
library(reshape)
library(lubridate)
library(flexdashboard) # Dashboard package
library(plotly) # Interactive data visualisations
library(RColorBrewer)
library(colourpicker)
```

Code

```
CM <- read.csv("~/Call_Center_Metrics_for_the_Health_Service_System.csv", stringsAsFac</pre>
tors = FALSE)
CM1 <- CM %>% separate(Month, into = c("Date"), sep=' ')
CM1 \leftarrow CM1[-c(1,2,51:86), -c(5)]
CM2 <- CM1 %>% separate(Date, into = c("Month","Day","Year"),sep='/')
CM2$Total.Calls <- rowSums(CM2[, c(4,6)])</pre>
CM2 = mutate(CM2,Abandonment_Rate =(Abandoned.Calls/Total.Calls))
CM2<-CM2 %>% group_by(Year) %>% mutate( Abandonment_Rate = round(Abandonment_Rate, 3))
CM3<-CM1
CM3$Date <- as.Date(CM1$Date, format = "%m/%d/%Y")
CM3<-CM3[48:1, ]
CM2$Year<-as.factor(CM2$Year)</pre>
CM5 < -CM2[,-c(2,5,7,9)]
cbp <- c("#999999", "#E69F00", "#56B4E9", "#009E73", "#F0E442", "#0072B2", "#CC79A7")
cbp1<-c("#56B4E9","#CC79A7", "#999999")
C5<-CM5[,c(1,2,5)]
#subsetting the Data
subset<-C5%>%filter(Year=="2017")
subset1<-CM5%>%filter(Year=="2017")
#subset1$Month<-as.factor(subset1$Month)</pre>
#subset1$Month <- factor(subset1$Month,</pre>
#levels=c('1','2','3','4','5','6','7','8','9','10','11','12'),
#Labels=c('Jan','Feb','Mar','Apr','May','Jun','Jul','Aug','Sep','Oct','Nov','Dec'))
```