Data visualization proportion

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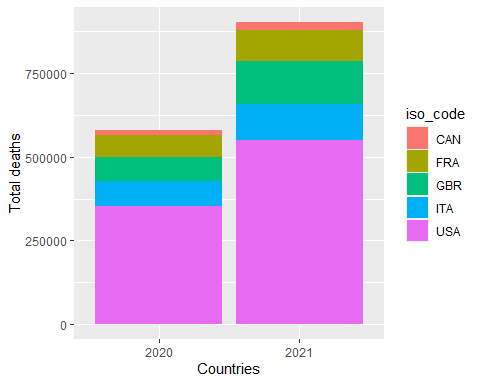
3/28/2021

data<-read.csv(file="owid-covid-data\_new.csv",header=TRUE)  
dim(data)

## [1] 78245 59

USA\_20 <- data[74514:74514, ]  
UK\_20 <- data[74081:74081, ]  
CAN\_20 <- data[13100:13100, ]  
FRA\_20 <- data[25899:25899, ]  
ITA\_20 <- data[35349:35349, ]  
data\_20<-rbind(USA\_20,UK\_20,CAN\_20,FRA\_20,ITA\_20)  
data\_f20 <- data\_20[,c(1,4,8)]  
  
USA\_21 <- data[74602:74602, ]  
UK\_21 <- data[74169:74169, ]  
CAN\_21 <- data[13188:13188, ]  
FRA\_21 <- data[25987:25987, ]  
ITA\_21 <- data[35437:35437, ]  
data\_21<-rbind(USA\_21,UK\_21,CAN\_21,FRA\_21,ITA\_21)  
data\_f21 <- data\_21[,c(1,4,8)]  
data\_final <- rbind(data\_f20,data\_f21)

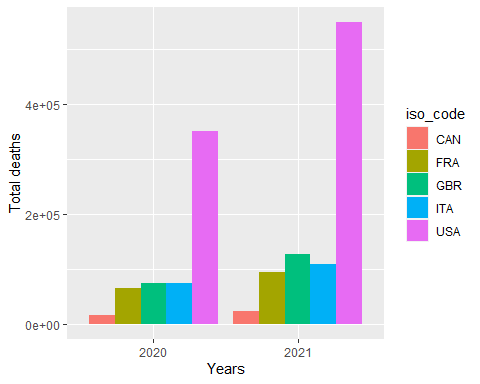
#library(tidyverse)  
#library(magrittr)  
library(ggplot2)  
#library(reshape2)  
#library(scales)  
  
ggplot(data\_final, aes(x = date, y = total\_deaths, fill = iso\_code)) +  
 xlab("Years") + ylab("Total deaths")+  
 geom\_bar(stat="identity", position = 'dodge')+  
 geom\_col()+  
 scale\_x\_discrete(name = "Countries", labels=c("2020-12-31" = "2020", "2021-03-29" = "2021"))+  
 scale\_y\_continuous(name="Total deaths")



From this data visualization, we can see the total deaths due to Covid-19 in Canada, France, Great Britain, Italy, and United States respectively.

## Data visualization proportion improvement:

plot <- ggplot(data\_final, aes(date, total\_deaths, fill=iso\_code))  
plot <- plot + geom\_bar(stat = "identity", position = 'dodge')+  
 scale\_x\_discrete(name = "Years", labels=c("2020-12-31" = "2020", "2021-03-29" = "2021"))+  
 scale\_y\_continuous(name="Total deaths")  
plot



From this data visualization, we can see the total deaths due to Covid-19 in Canada, France, Great Britain, Italy, and United States in 2020 and 2021 respectively. The number of total deaths very higher in USA compare to other countries.