Project 2 Report

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Contents

Global Trajectory

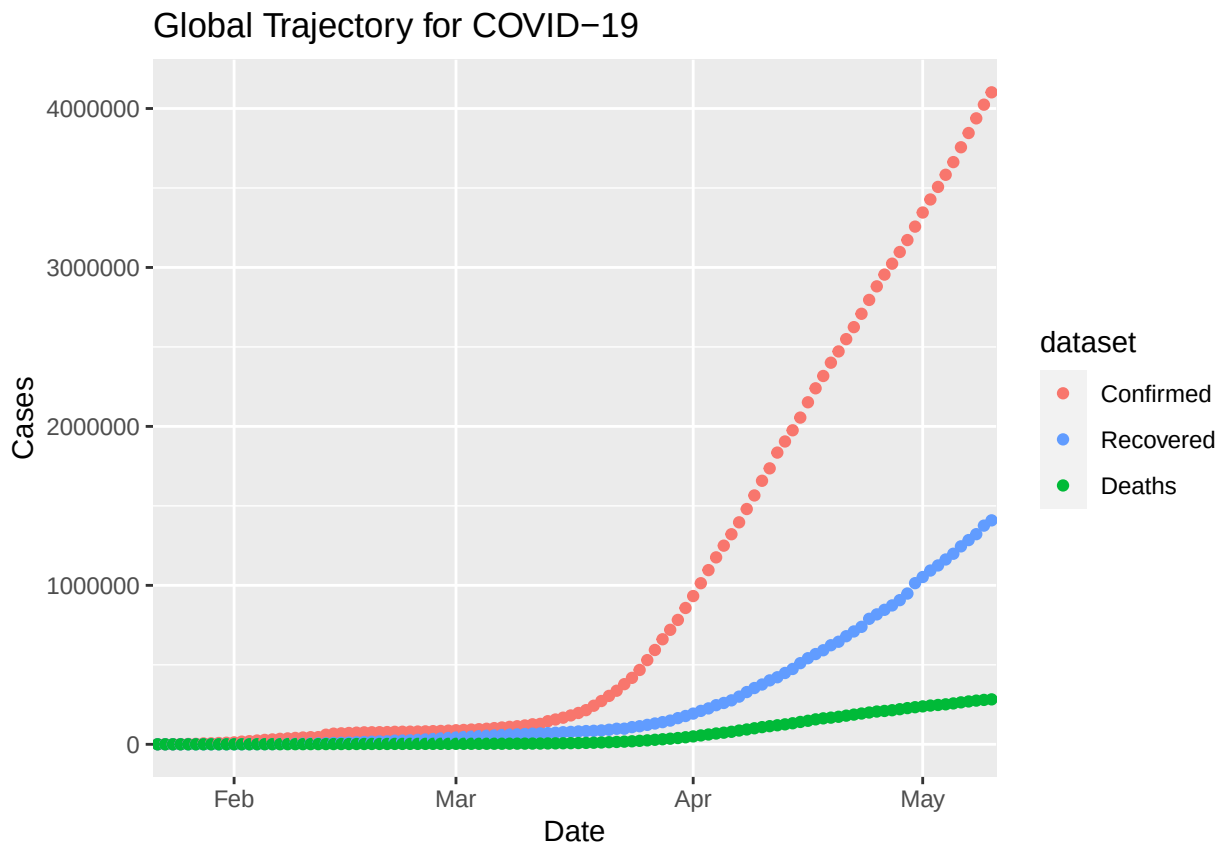
```
confirmed_ds<-read.csv("time_series_covid19_confirmed_global.csv",
                       header=TRUE, stringsAsFactors=FALSE)
deaths_ds<-read.csv("time_series_covid19_deaths_global.csv",
                    header=TRUE, stringsAsFactors=FALSE)
recovered_ds<-read.csv("time_series_covid19_recovered_global.csv",
                       header=TRUE, stringsAsFactors=FALSE)

confirmed_sum<-confirmed_ds%>%select(X1.22.20:X5.10.20)%>%summarise_all(sum)
death_sum<-deaths_ds%>%select(X1.22.20:X5.10.20)%>%summarise_all(sum)
recovered_sum<-recovered_ds%>%select(X1.22.20:X5.10.20)%>%summarise_all(sum)


dat <- rbind(confirmed_sum, recovered_sum, death_sum)
dat$dataset <- factor(c(rep("Confirmed", dim(confirmed_sum)[1]),
                        rep("Recovered", dim(recovered_sum)[1]),
                        rep("Deaths", dim(death_sum)[1])))

data_long <- gather(dat, Dates, SumCases,  X1.22.20:X5.10.20, factor_key=TRUE)

ggplot(data_long, aes(x=Dates, y=SumCases, color=dataset)) +
  scale_color_discrete(breaks=c("Confirmed", "Recovered", "Deaths")) +
  geom_point() + ggtitle("Global Trajectory for COVID-19") +
  scale_x_discrete(breaks=c("X2.1.20","X3.1.20","X4.1.20", "X5.1.20"),
                   labels=c("Feb", "Mar", "Apr", "May")) +
  labs(y= "Cases", x = "Date") +
  scale_y_continuous(breaks=pretty_breaks(n=5),
                     labels=function(x) format(x, scientific = FALSE))
```



Global Map

Narrowing Down Hot Spots

Zooming Into Our State

Digging Deeper