## Mission2

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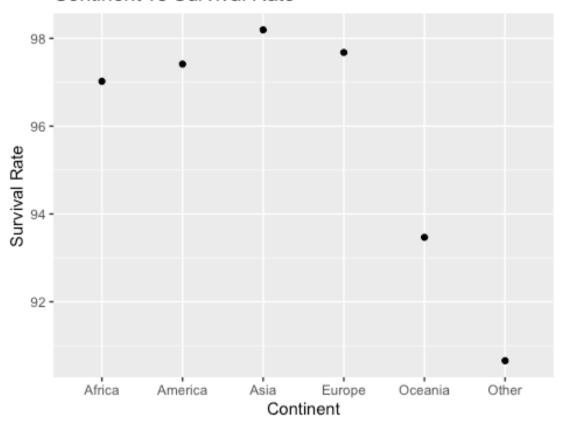
#### R Markdown

This would tell the survial rate for different contients

```
library(readr)
library(tidyverse)
library(dplyr)
all cases <- read csv("/Users/ujjvalsharma/Documents/data-science/
project work/mission2/data-set/ddf--datapoints--cases--by--geo id--
day.csv")
all death <- read csv("/Users/ujivalsharma/Documents/data-science/
project work/mission2/data-set/ddf--datapoints--deaths--by--geo id--
day.csv")
all geo names <- read csv("/Users/ujjvalsharma/Documents/data-science/
project work/mission2/data-set/ddf--entities--geo id.csv")
all cases[, 3] =all cases[, 3] + 1 #adding +1 for 0 cases
all death[, 3] =all death[, 3] + 1 #adding +1 for 0 death
# this code is used to get survivial rate for each contient
all cases grp geo<-all cases %>%
 group by(geo id) %>%
  summarize(sum(cases, na.rm=TRUE))
all death grp geo<-all death %>%
  group by(geo id) %>%
  summarize(sum(deaths, na.rm=TRUE))
names(all cases grp geo)[2] <- "cases"</pre>
names(all death grp geo)[2] <- "deaths"</pre>
all cases grp contient <- inner join (all cases grp geo, all geo names,
```

```
by=c("geo id"="geo id")) %>%
  group by(continent exp) %>%
  summarize(sum(cases, na.rm=TRUE))
all death grp contient<-inner join(all death grp geo, all geo names,
by=c("geo id"="geo id")) %>%
  group by(continent exp) %>%
  summarize(sum(deaths, na.rm=TRUE))
names(all cases grp contient)[2] <- "cases"</pre>
names(all death grp contient)[2] <- "deaths"</pre>
cases death contient - inner join (all cases grp contient,
all death grp contient, by=c("continent exp"="continent exp"))
cases death contient <- transform(cases death contient,
survival count=cases-deaths)
cases death contient <- cases death contient %>%
filter(survival count>0)
cases death contient <- transform(cases death contient,</pre>
survival rate=(survival count/cases)*100)
qqplot(cases death contient, aes(x = continent exp, y = survival rate))
 geom point()+
  labs(title="Continent vs Survival Rate",
       x ="Continent", y = "Survival Rate")
```

### Continent vs Survival Rate



This would tell the time series for surivival rate.

```
all_day_cases_grp_contient<-inner_join(all_cases, all_geo_names,
by=c("geo_id"="geo_id")) %>%
    group_by(continent_exp,day) %>%
    summarize(sum(cases, na.rm=TRUE))

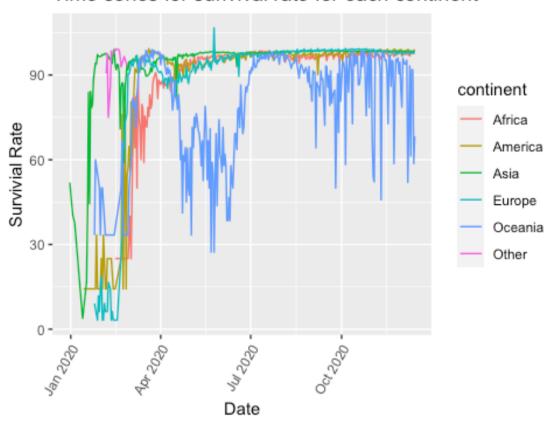
## `summarise()` has grouped output by 'continent_exp'. You can
override using the `.groups` argument.

all_day_death_grp_contient<-inner_join(all_death, all_geo_names,
by=c("geo_id"="geo_id")) %>%
    group_by(continent_exp,day) %>%
    summarize(sum(deaths, na.rm=TRUE))

## `summarise()` has grouped output by 'continent_exp'. You can
override using the `.groups` argument.
```

```
names(all day cases grp contient)[3] <- "cases"</pre>
names(all day death grp contient)[3] <- "deaths"</pre>
all cases death day<-inner join(all day death grp contient,
all day cases grp contient,
by=c("continent exp"="continent exp", "day"="day"))
all cases death day <- transform(all cases death day,
survival count=cases-deaths)
all cases death day<-all cases death day %>% filter(survival count>0)
all cases death day <- transform(all cases death day, survival rate=
ifelse(cases>0,(survival count/cases)*100,100))
all cases death day <- transform(all cases death day, covid date=
as.Date(paste(substr(day, 1, 4), substr(day, 5, 6), sep="-"),
substr(day, 7, 8), sep="-")))
names(all cases death day)[names(all cases death day) ==
"continent exp"] <- "continent"</pre>
  ggplot(all cases death day, aes(x=covid date,
y=survival rate,color=continent)) +
  geom line() +
  theme(axis.text.x=element text(angle=60, hjust=1))+
    labs(title="Time series for surivival rate for each continent",
         x ="Date", y = "Survivial Rate")
```

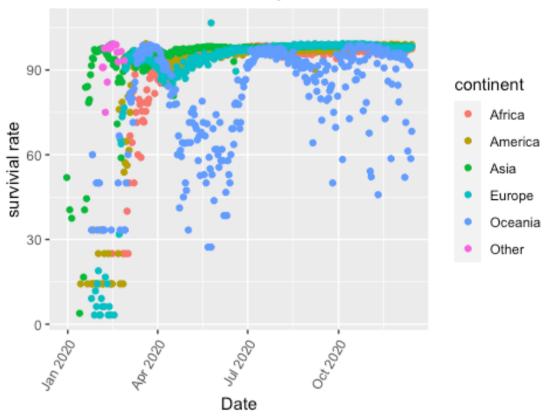
# Time series for surivival rate for each continent



This would tell the survial rate for different contients for each day.

```
ggplot(all_cases_death_day, aes(x=covid_date,
y=survival_rate,color=continent)) +
    geom_point() +
    theme(axis.text.x=element_text(angle=60, hjust=1))+
    labs(title="Surivival rate for each day of different continents",
        x ="Date", y = "survivial rate")
```

# Surivival rate for each day of different continents



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