COVIZ: COVID-19 in Latin America

By Brandon Janes

```
library(ggplot2)
library(tidyverse)
library(dplyr)
library(data.table)
```

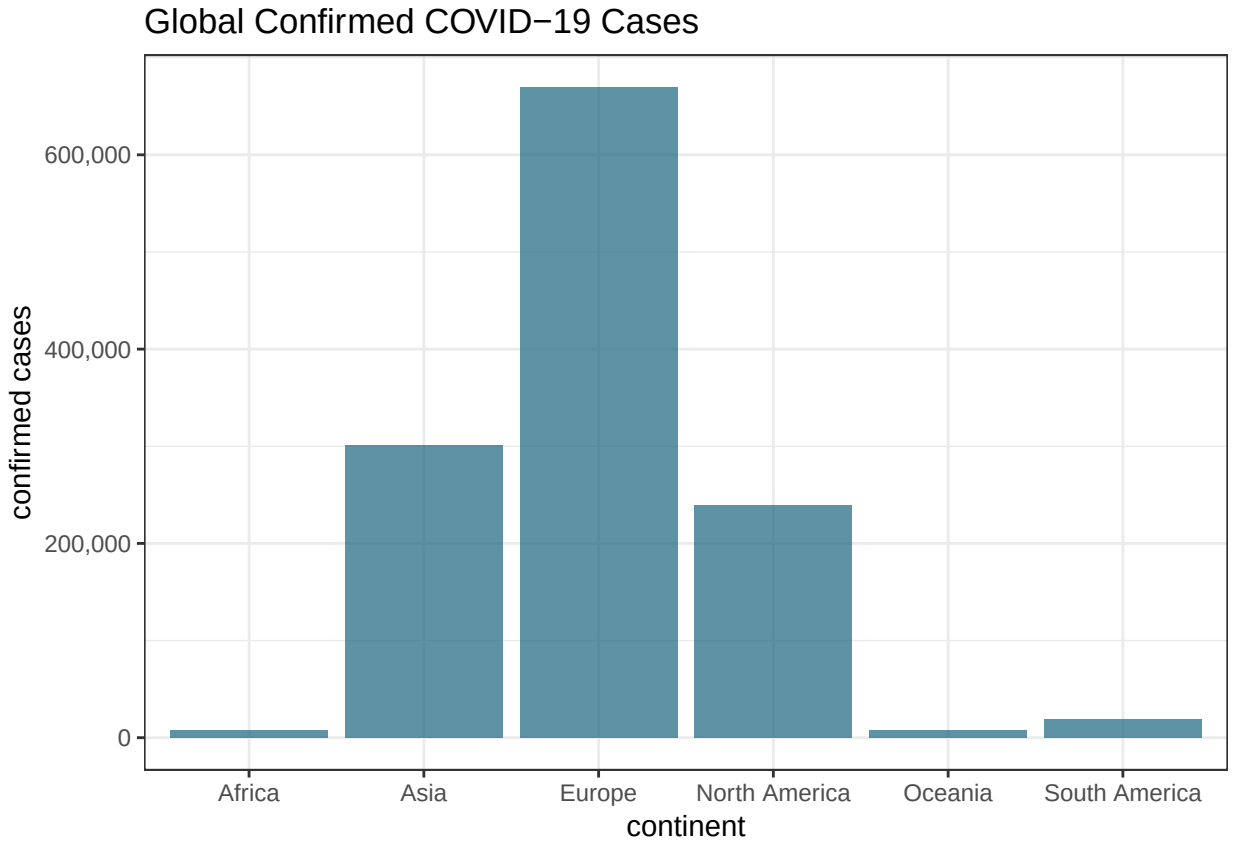
Upload Data

Data from repository for the 2019 Novel Coronavirus Visual Dashboard operated by the **Johns Hopkins University Center for Systems Science and Engineering** (JHU CSSE). Also, countries and continents from **dbouquin** and population from **Gapminder**.

```
confirmed <- read.csv("https://raw.githubusercontent.com/CSSEGISandData/COVID-19/master/csse_covid_19_da
region <- read.csv("https://raw.githubusercontent.com/dbouquin/IS_608/master/NanosatDB_munging/Countries
pop <- read.csv("population_total.csv", stringsAsFactors = FALSE) # thanks Hans!
```

LATAM has just 1.53 percent of world wide cases.

```
ggplot(region_tot, aes(x=continent,y=totals)) + theme_bw()+ geom_bar(fill=rgb(0.1,0.4,0.5,0.7),stat="ide
title = "Global Confirmed COVID-19 Cases")
```

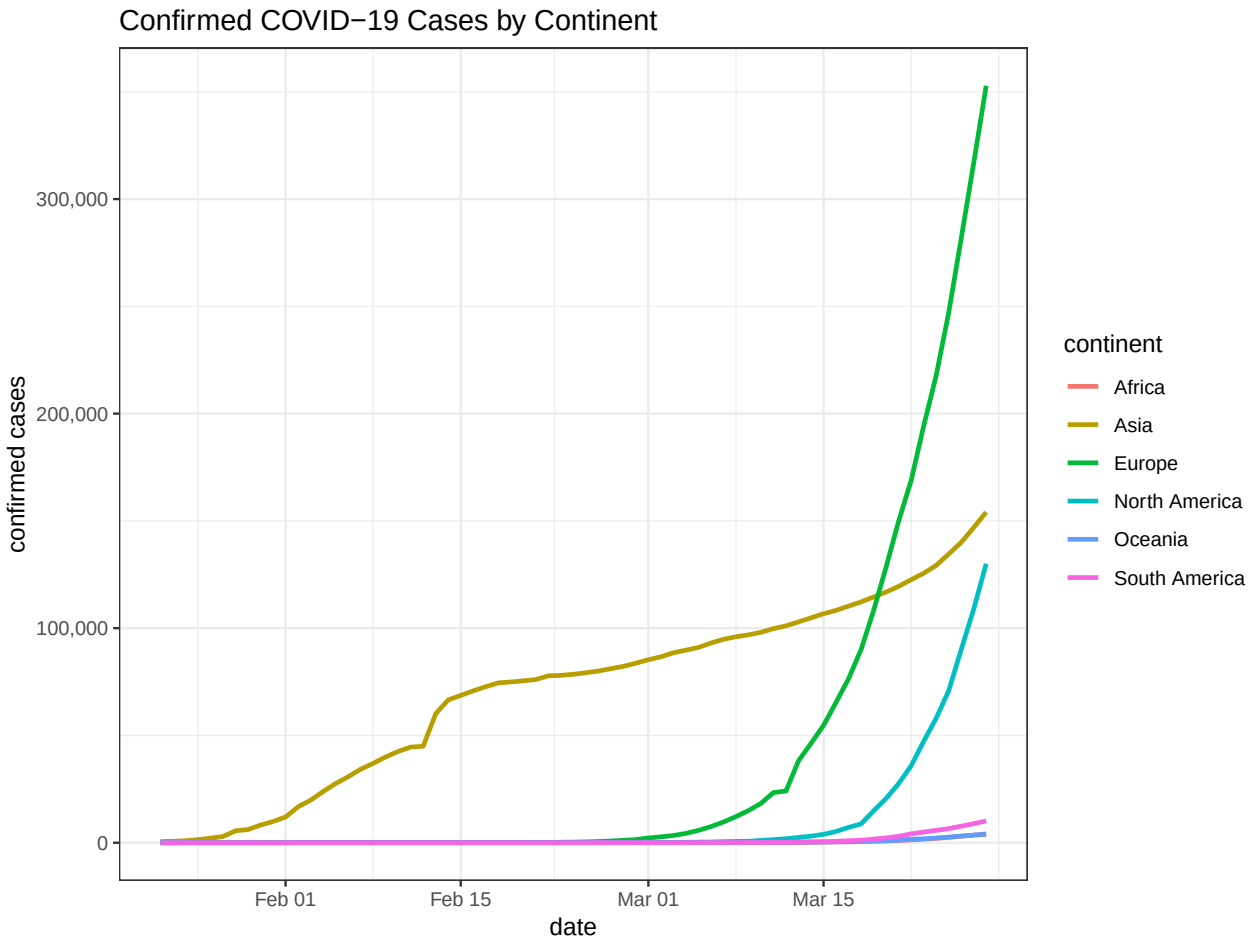


***

Times series of continents

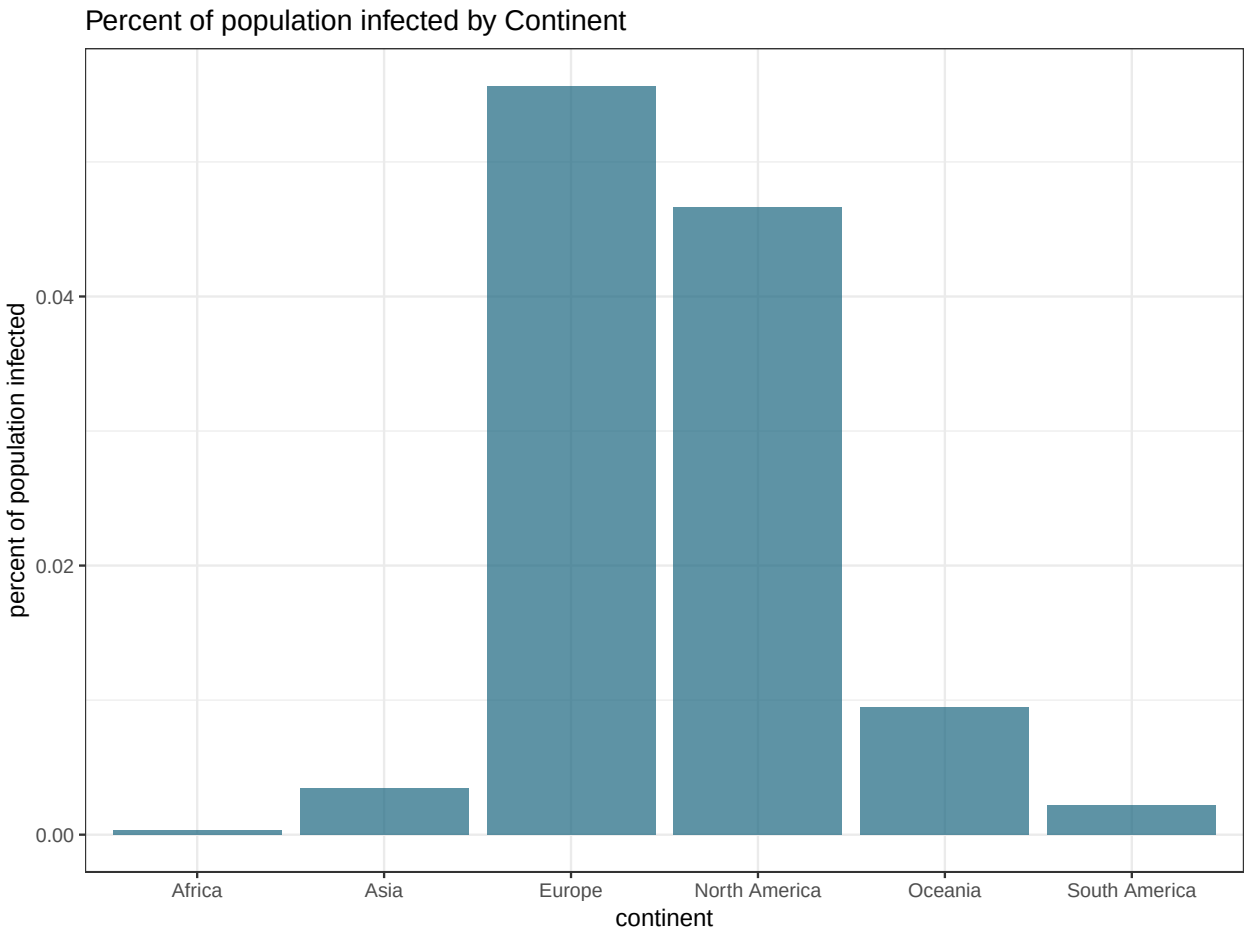
Regions of the third world continue to show low numbers of cases

```
ggplot(region_time, aes(date,totals, color=continent)) + geom_line(size=1) + theme_bw()+scale_y_continu
```



*** # Regional confirmed cases as a ratio to population

```
ggplot(tot_df, aes(x=continent,y=ratio_pop)) + theme_bw()+ geom_bar(fill=rgb(0.1,0.4,0.5,0.7),stat="ide
title = "Percent of population infected by Continent")
```


Percent of population infected by Continent
percent of population infected
0.04
0.02
0.00
Africa
Asia
Europe
North America
Oceania
South America
continent