

# Influence of demographic characteristic on Covid-19 kinetics

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## Introduction

1) Hypothesis including bar chart highlighting Denmark

## Methods

2) Overview of dataset including flowchart

3) Cleaning and augmentation

4) Description of final dataset

## Results

5.1) Boxplots + gapminder plots (cases) and KM plots (deaths)

5.1.1) Life exp

5.1.2) Health expenditure

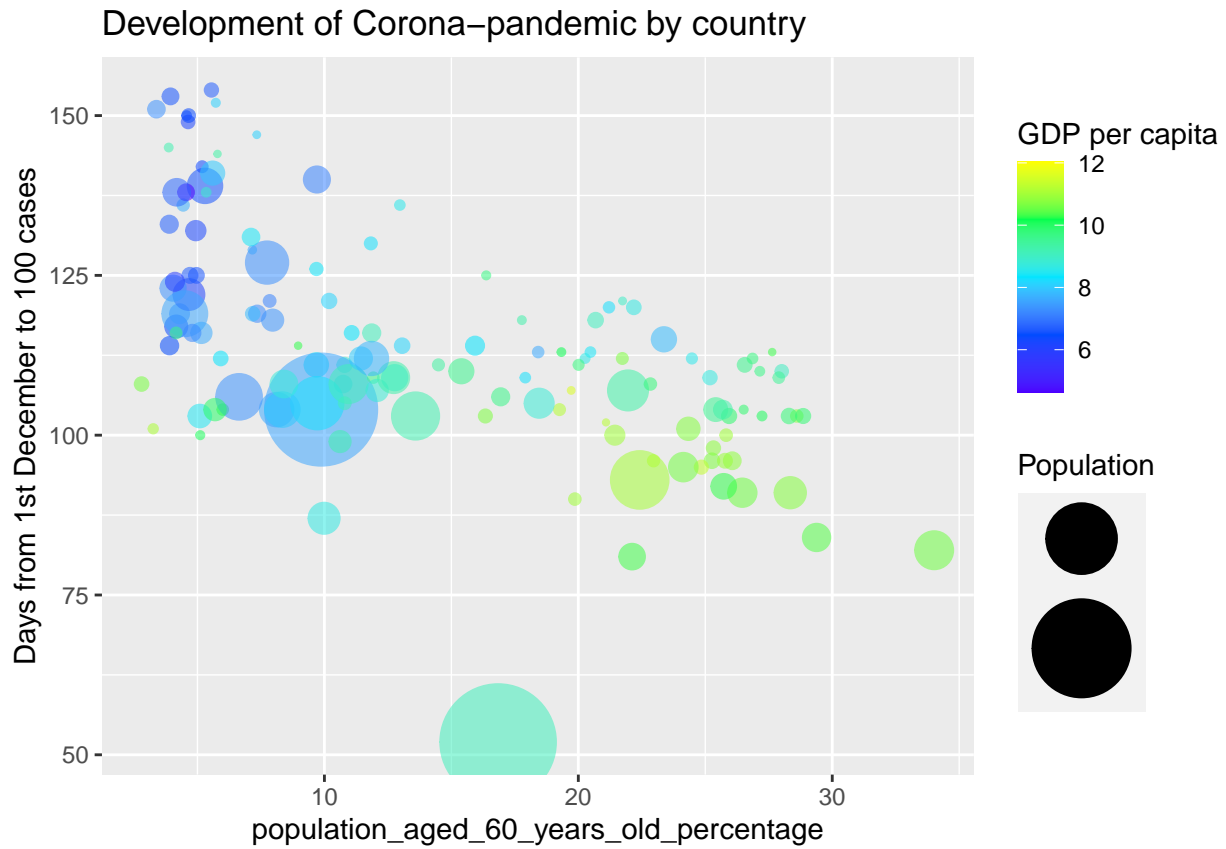
5.1.3) Pollution attributable death rate std

5.1.4) Population living in urban areas

5.1.5) Population aged 60 years old percentage

5.1.6) Respiratory diseases

```
#plotting depending variable (x-axis) possibly affecting corona outbreak (y-axis)
ggplot(covid_aug_by_country, aes_string(x="population_aged_60_years_old_percentage", y = 'days_from_dec_1st_to_100_cases')) +
  geom_point(aes(color=log(gdp_per_capita_us_dollars), size=population_in_thousands_total, alpha=0.5)) +
  scale_size(range = c(0.5, 20), name="Population", labels = NULL) +
  scale_colour_gradientn(colours=topo.colors(5), name = "GDP per capita") +
  ylab("Days from 1st December to 100 cases") +
  xlab("population_aged_60_years_old_percentage") +
  ggtitle("Development of Corona-pandemic by country") +
  guides(alpha="none")
```



5.2) Map

5.3) Gif

5.4) Shiny app

5.5) Cluster/PCA

5.6) Sex of leader

Discussion/Conclusion