

# Dash - Lab 1

Create a new Dash application.

Read the data using code:

```
df <- read.csv(  
  file = 'https://gist.githubusercontent.com/chriddyp/  
cb5392c35661370d95f300086acce51/raw/  
8e0768211f6b747c0db42a9ce9a0937dafcbd8b2/indicators.csv',  
  stringsAsFactor = FALSE  
)
```

Write code to include widgets:

- A dropdown selector to choose the indicator for the x axis (among all values taken by `Indicator.Name`),
- A dropdown selector to choose the indicator for the y axis (among all values taken by `Indicator.Name`),
- Radio buttons to choose linear or log scale for the x axis,
- Radio buttons to choose linear or log scale for the y axis,
- A slider to choose the year.

Filter the data to keep only the values for the year and the indicators selected. You may use the following code:

```
data_by_indicator <- df %>%  
  dplyr::filter(Year==years[year_value + 1],  
                Indicator.Name %in% c(xaxis_column_name,  
                                      yaxis_column_name)) %>%  
  droplevels() %>%  
  split(., .$Indicator.Name)  
  
filtered_df <- merge(data_by_indicator[[1]],
```

```
      data_by_indicator[[2]],  
      by = "Country.Name") %>%  
dplyr::transmute(x=Value.x, y=Value.y, text=Country.Name) %>%  
na.omit() %>%  
as.list()
```

Add code to plot the filtered data using the scales selected.