# HW2: Explore Gapminder and use dplyr

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*27/09/2019*

## Exercise 1

### 1.1 Filter

Use `filter()` to subset the `gapminder` data to three countries of your choice in the 1970's.

```
filtered <- gapminder %>%
  arrange(year) %>%
  filter(year > 1969, year < 1980, country == "Canada" | country == "Mexico"
    | country == "Brazil") %>%
  arrange(country)
```

### 1.2 Pipe Operator

Use the pipe operator %>% to select "country" and "gdpPercap" from your filtered dataset in 1.1.

```
filtered %>%
  select(country, gdpPercap)
```

```
## # A tibble: 6 x 2
##   country gdpPercap
##   <fct>       <dbl>
## 1 Brazil      4986.
## 2 Brazil      6660.
## 3 Canada     18971.
## 4 Canada     22091.
## 5 Mexico      6809.
## 6 Mexico      7675.
```

#1.3 #Filter gapminder to all entries that have experienced a drop in life expectancy. Be sure to include a new variable that's the increase in life expectancy in your tibble. Hint: you might find the lag() or diff() functions useful