Practicando

Fernando

20/2/2021

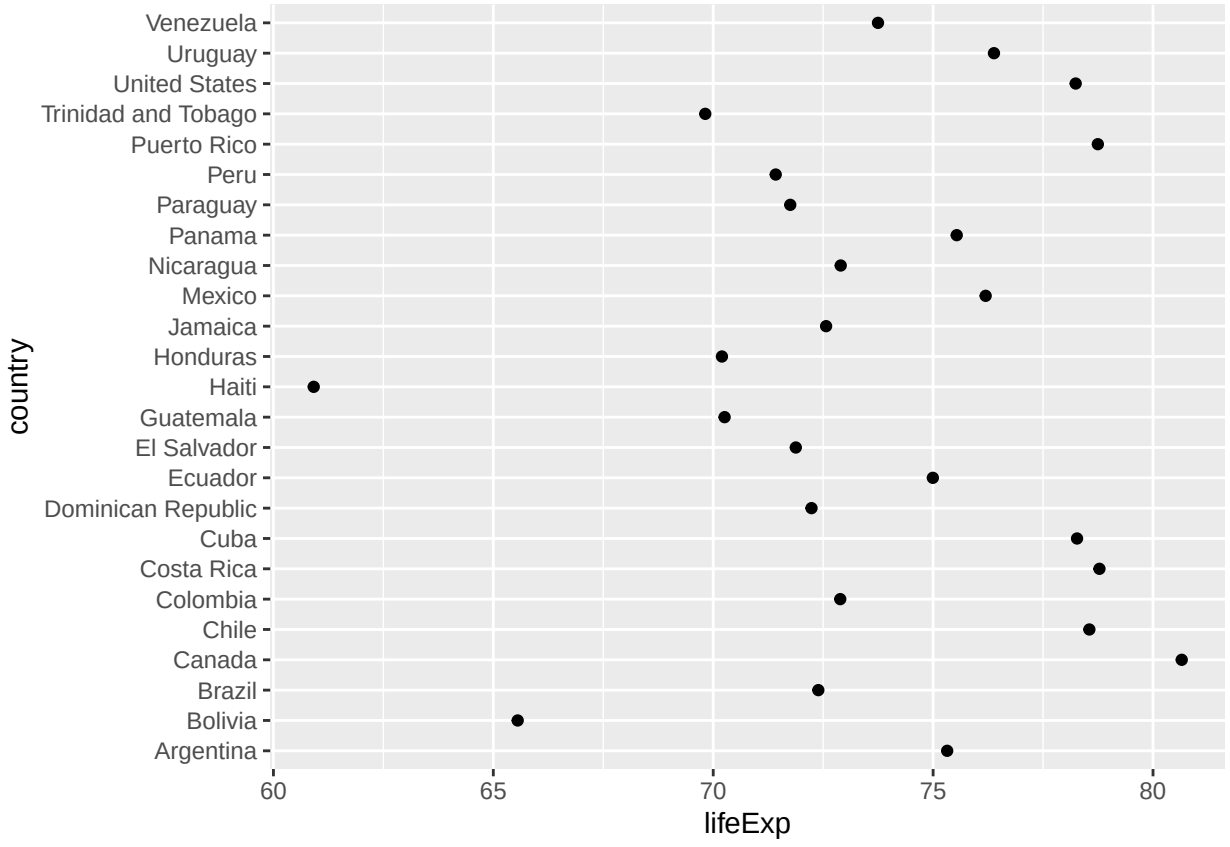
Primeros pasos

En este documentos se plasman los primeros pasos del uso de Git en RStudio. Para este primer ejercicio se hace uso de la base de datos **gapminder**.

```
colnames(gapminder)
```

```
## [1] "country"   "continent" "year"      "lifeExp"   "pop"       "gdpPercap"
```

```
gapminder %>%
  filter(continent == 'Americas', year == 2007) %>%
  ggplot(aes(x=lifeExp, y=country )) +
  geom_point()
```

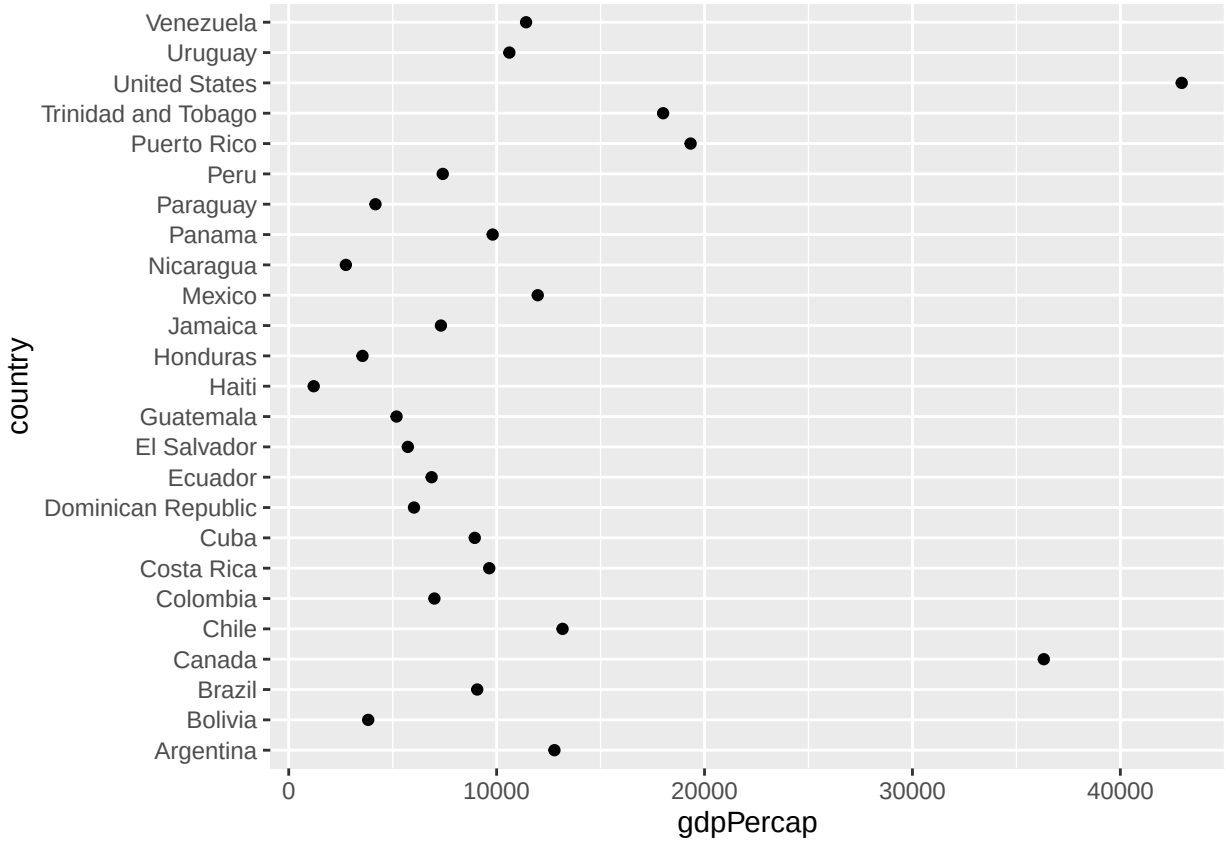



```
gapminder %>%
  mutate(pop_m = round(pop / 1000000, 2))
```

```
## # A tibble: 1,704 x 7
##    country     continent  year lifeExp      pop gdpPercap pop_m
##    <fct>       <fct>     <int>   <dbl>    <int>     <dbl> <dbl>
##  1 Afghanistan Asia       1952    28.8  8425333      779.  8.43
##  2 Afghanistan Asia       1957    30.3  9240934      821.  9.24
##  3 Afghanistan Asia       1962    32.0 10267083      853. 10.3
##  4 Afghanistan Asia       1967    34.0 11537966      836. 11.5
##  5 Afghanistan Asia       1972    36.1 13079460      740. 13.1
##  6 Afghanistan Asia       1977    38.4 14880372      786. 14.9
##  7 Afghanistan Asia       1982    39.9 12881816      978. 12.9
##  8 Afghanistan Asia       1987    40.8 13867957      852. 13.9
##  9 Afghanistan Asia       1992    41.7 16317921      649. 16.3
## 10 Afghanistan Asia       1997    41.8 22227415      635. 22.2
## # ... with 1,694 more rows
```

Ordenar datos

```
gapminder %>%
  filter(year == 2007 & continent == "Americas") %>%
  arrange(gdpPercap) %>%
  ggplot(aes(x=gdpPercap, y=country)) +
  geom_point()
```




```
gapminder %>%
  summarise(max_edv = max(lifeExp ))
```

```
## # A tibble: 1 x 1
##   max_edv
##     <dbl>
```

```
## 1    82.6
```

```
gapminder %>%
  filter(lifeExp >= 82.6)
```

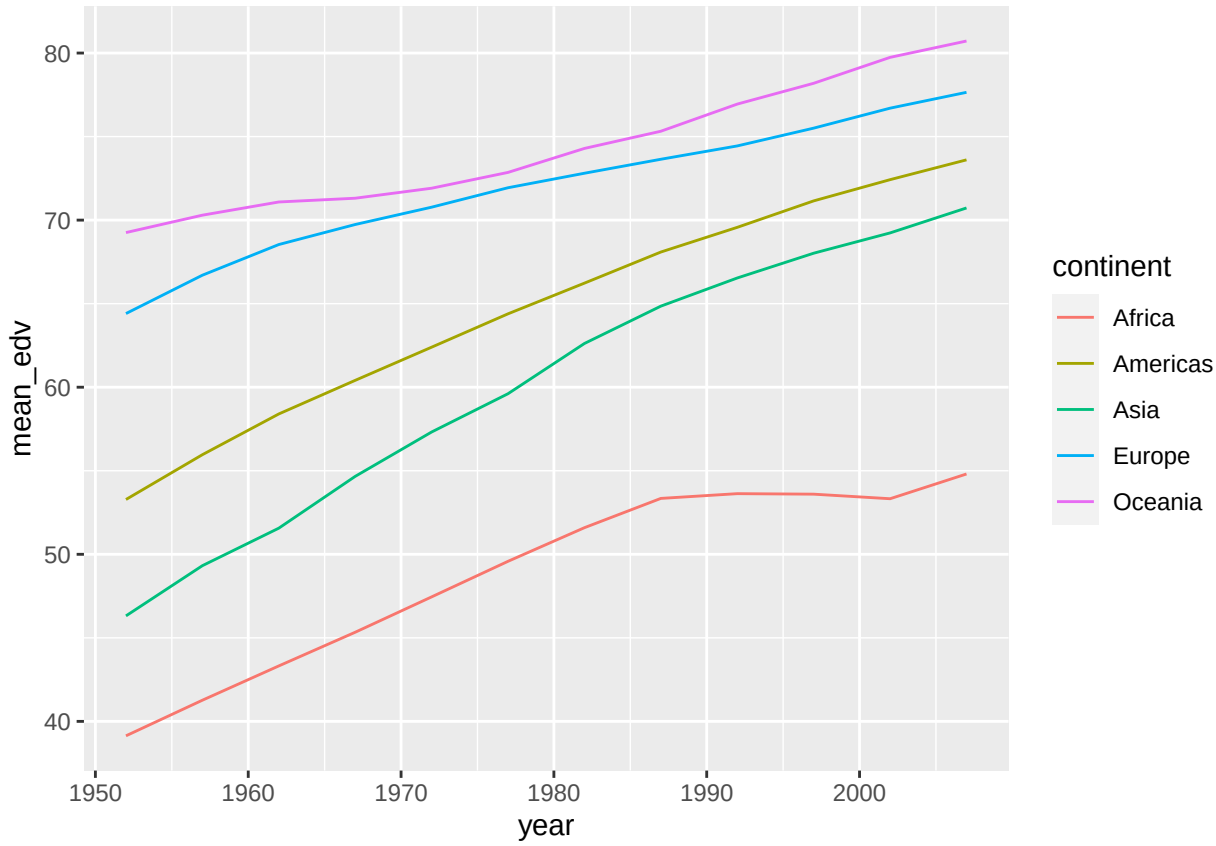
```
## # A tibble: 1 x 6
##   country continent  year lifeExp       pop gdpPercap
##   <fct>   <fct>     <int>   <dbl>     <int>     <dbl>
## 1 Japan   Asia       2007    82.6 127467972    31656.
```

```
gapminder %>%
  group_by(year) %>%
  summarise(mean_edv = mean(lifeExp) )
```

```
## # A tibble: 12 x 2
##     year mean_edv
##  * <int>    <dbl>
##  1  1952     49.1
##  2  1957     51.5
##  3  1962     53.6
##  4  1967     55.7
##  5  1972     57.6
##  6  1977     59.6
##  7  1982     61.5
##  8  1987     63.2
##  9  1992     64.2
## 10  1997     65.0
## 11  2002     65.7
## 12  2007     67.0
```

```
gapminder %>%
  group_by(continent, year) %>%
  summarise(sum_pop = sum(as.numeric(pop)),
            mean_pop = mean(pop),
            mean_edv = mean(lifeExp),
            n_paises =n()) %>%
  ggplot(aes(x = year,
             y = mean_edv,
             color = continent)) +
  geom_line()
```

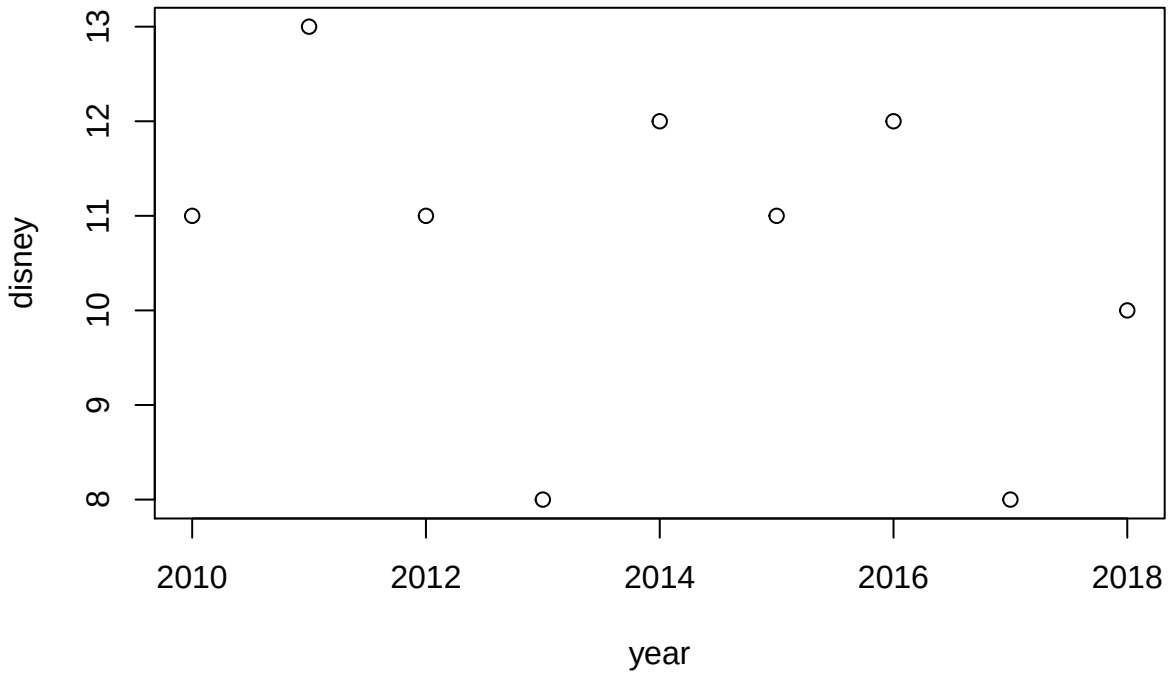
```
## `summarise()` has grouped output by 'continent'. You can override using the `.groups` argument.
```



Uso de ggplot2

```
year <- c('2010', '2011', '2012', '2013', '2014', '2015', '2016', '2017', '2018')
disney <- c(11, 13, 11, 8, 12, 11, 12, 8, 10)

plot(x = year,
     y = disney)
```




```
library(knitr)
peliculas <- data.frame(year,disney)

kable(peliculas)
```

year	disney
2010	11
2011	13
2012	11
2013	8
2014	12
2015	11
2016	12
2017	8
2018	10