

LAB 33 (MD)

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Grafica de puntos en R

Instalando paquete con los datos `install.packages("gapminder")`

Cargando paquete con los datos

```
library(gapminder)
```

```
## Warning: package 'gapminder' was built under R version 3.5.3
```

Cargando datos a entorno

```
data("gapminder")
```

Filtrando por año 2007

```
gapminder2007 <- gapminder[gapminder$year == '2007', ]
```

Echando un ojo a los datos

```
head(gapminder2007)
```

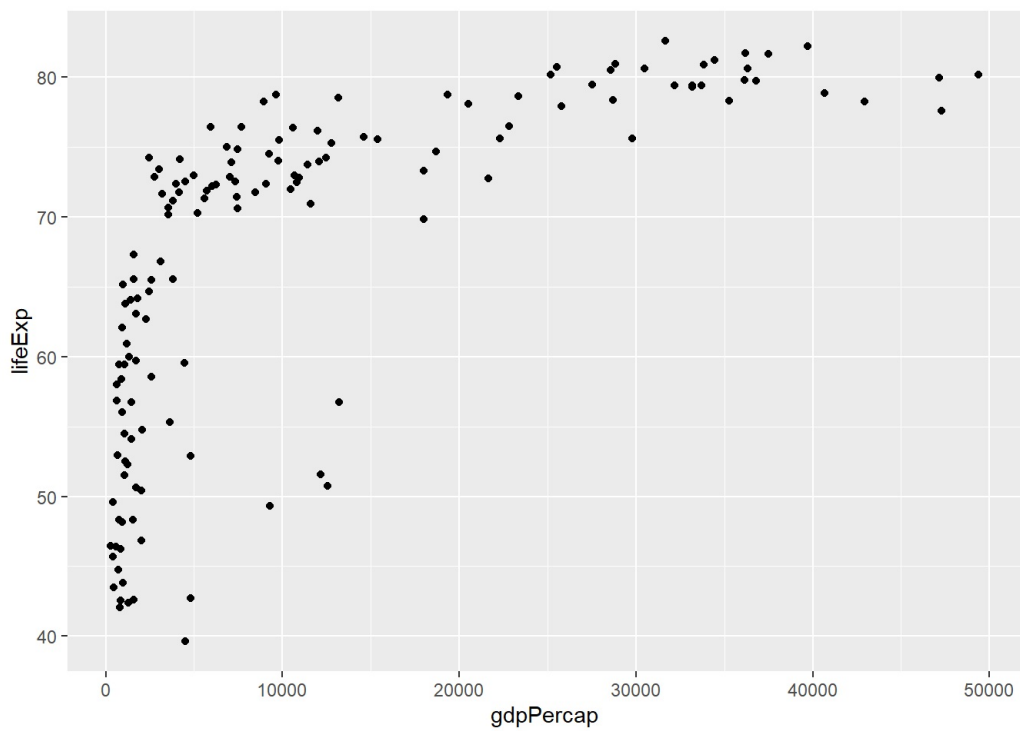
```
## # A tibble: 6 x 6
##   country    continent  year lifeExp      pop gdpPercap
##   <fct>      <fct>    <int>  <dbl>    <int>    <dbl>
## 1 Afghanistan Asia      2007   43.8 31889923    975.
## 2 Albania    Europe    2007   76.4  3600523   5937.
## 3 Algeria    Africa     2007   72.3 33333216   6223.
## 4 Angola     Africa     2007   42.7 12420476   4797.
## 5 Argentina  Americas   2007   75.3 40301927  12779.
## 6 Australia  Oceania    2007   81.2 20434176  34435.
```

Cargar libreria ggplot2

```
library(ggplot2)
```

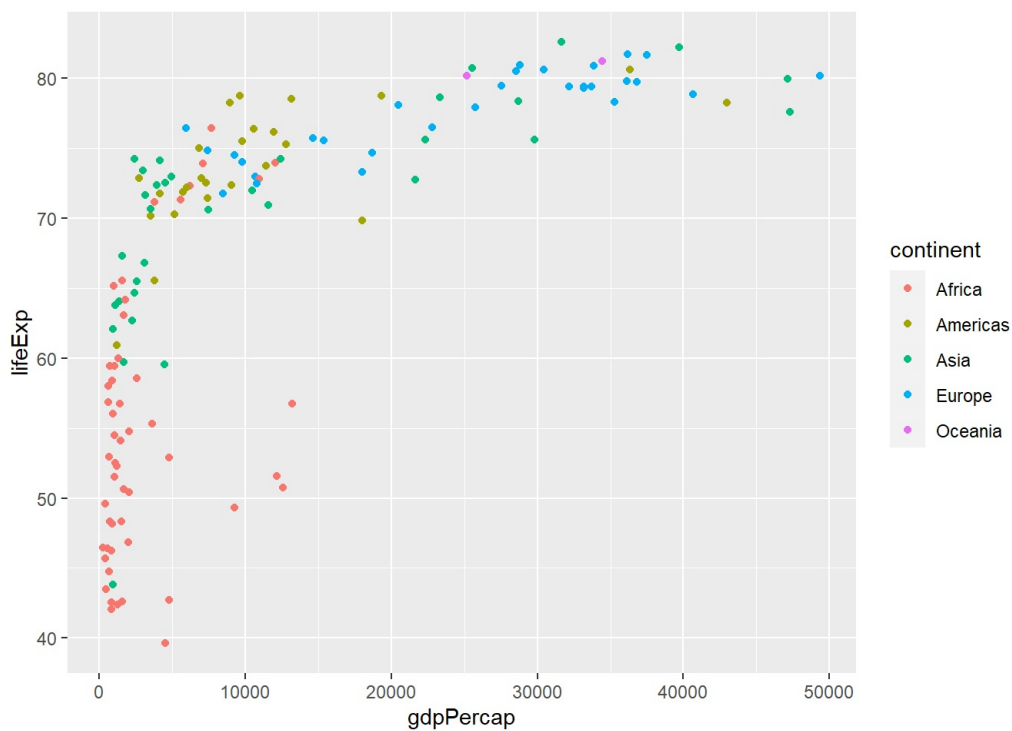
Como hacer grafica de puntos con ggplot2

```
ggplot (data = gapminder2007,
        mapping = aes (x = gdpPercap,
                        y = lifeExp)) +
  geom_point()
```



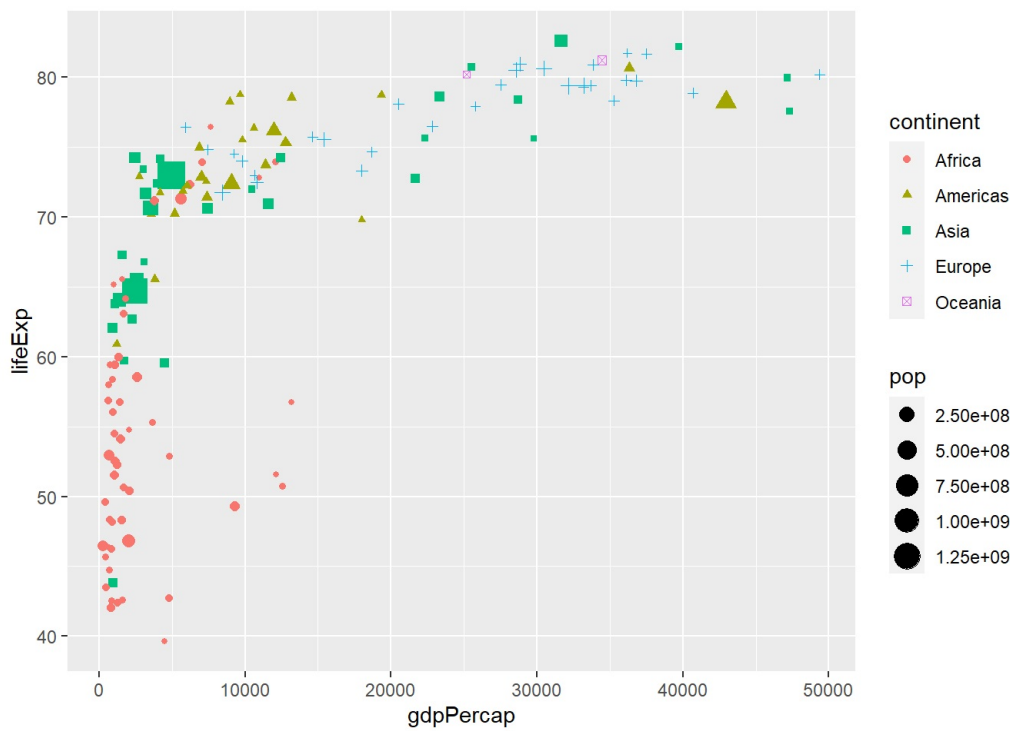
Probando diferentes colores

```
ggplot (data = gapminder2007,
        mapping = aes (x = gdpPercap,
                        y = lifeExp,
                        color = continent)) +
geom_point()
```



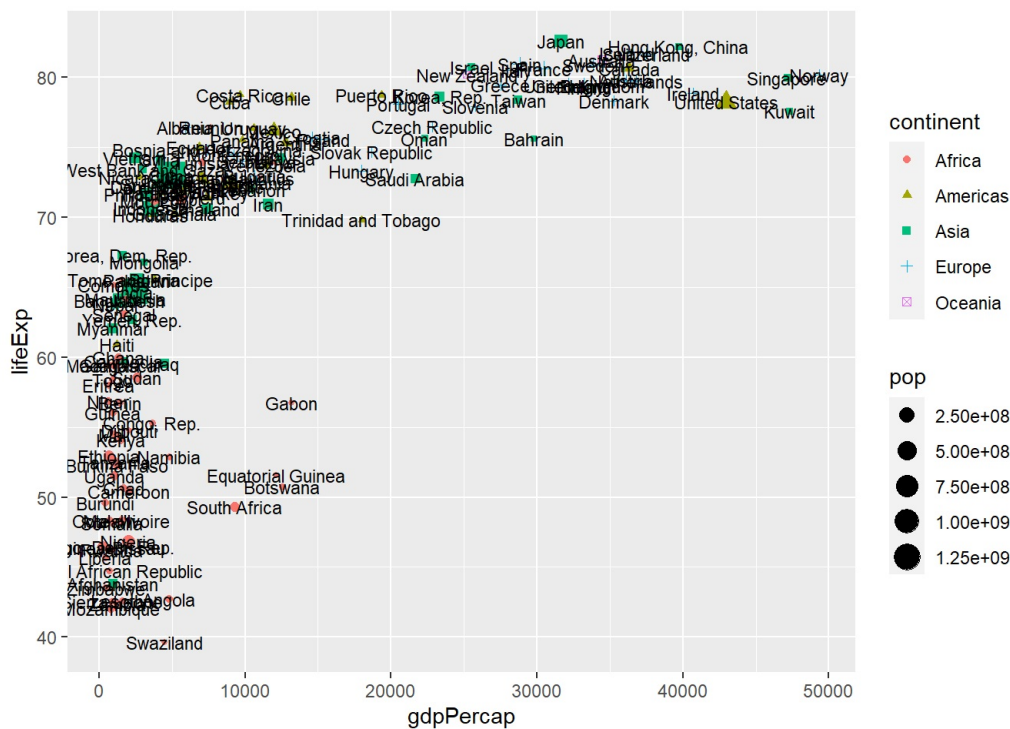
Probando diferentes más aesthetics

```
ggplot (data = gapminder2007,
        mapping = aes (x = gdpPercap,
                        y = lifeExp,
                        color = continent,
                        shape = continent,
                        size = pop)) +
geom_point()
```



Colocando texto

```
ggplot (data = gapminder2007,
        mapping = aes (x = gdpPerCap,
                        y = lifeExp,
                        color = continent,
                        shape = continent,
                        size = pop)) +
  geom_point() +
  geom_text(label = gapminder2007$country,
            color = "black" ,
            size = 3)
```



Colocando lineas de regresion

```
ggplot (data = gapminder2007,
        mapping = aes (x = gdpPerCap,
                        y = lifeExp,
                        color = continent)) +
  geom_point() +
  geom_smooth(method = lm,
              se = FALSE,
              fullrange = TRUE)
```

```
## `geom_smooth()` using formula 'y ~ x'
```

