



INSTITUTO DE CIENCIAS ECONÓMICO ADMINISTRATIVAS
DOCTORADO EN CIENCIAS ECONÓMICO ADMINISTRATIVAS

LABORATORIO Rstudio
LABS_45

GRADO: 3ER. SEMESTRE



MATERIA:

**COMPLEJIDAD
ECONÓMICA**

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```
title: "LABS_45"
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date: "2023-03-13"
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```
output: html_document
```

Laboratorio gráfica de puntos #####

LABORATORIO - Graficos en R con ggplot2 para Ciencia de Datos Grafica de puntos en R (PARTE 1)

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

cCargando

```
library(gapminder)
```

cargando datos a entorno

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

filtrando por año 2007

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

Echando ojo a los datos

```
head(gapminder2007)
```

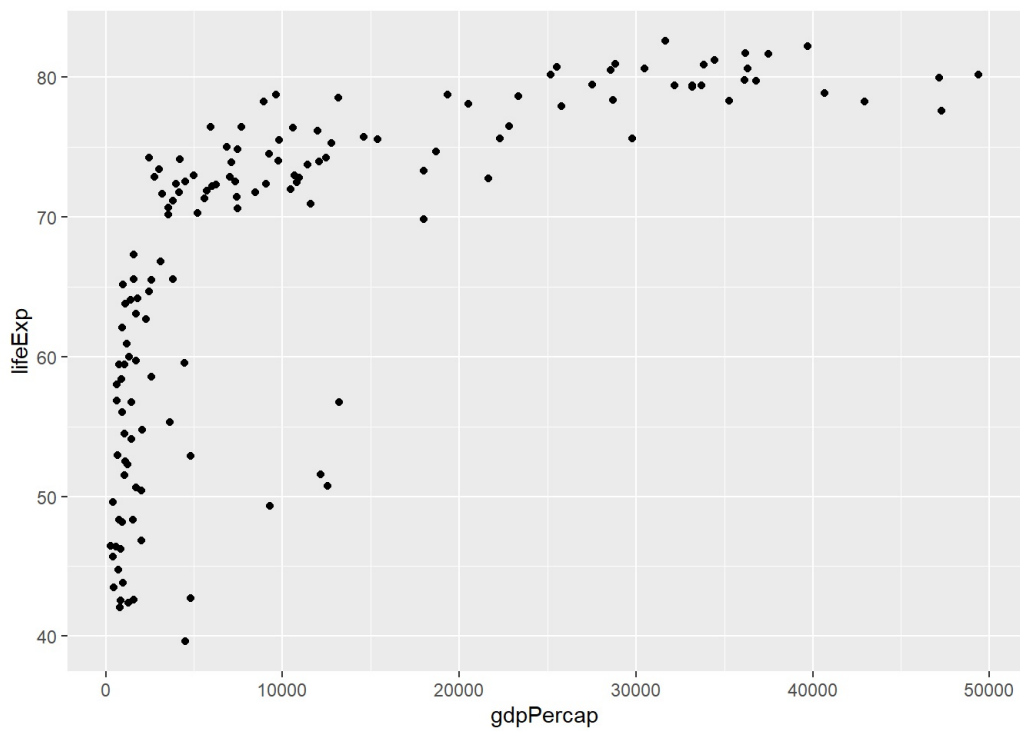
```
## # A tibble: 6 × 6
##   country    continent  year lifeExp      pop gdpPercap
##   <fct>      <fct>      <int>  <dbl>    <int>    <dbl>
## 1 Afghanistan Asia        2007   43.8 31889923    975.
## 2 Albania    Europe        2007   76.4  3600523   5937.
## 3 Algeria    Africa        2007   72.3 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)
```

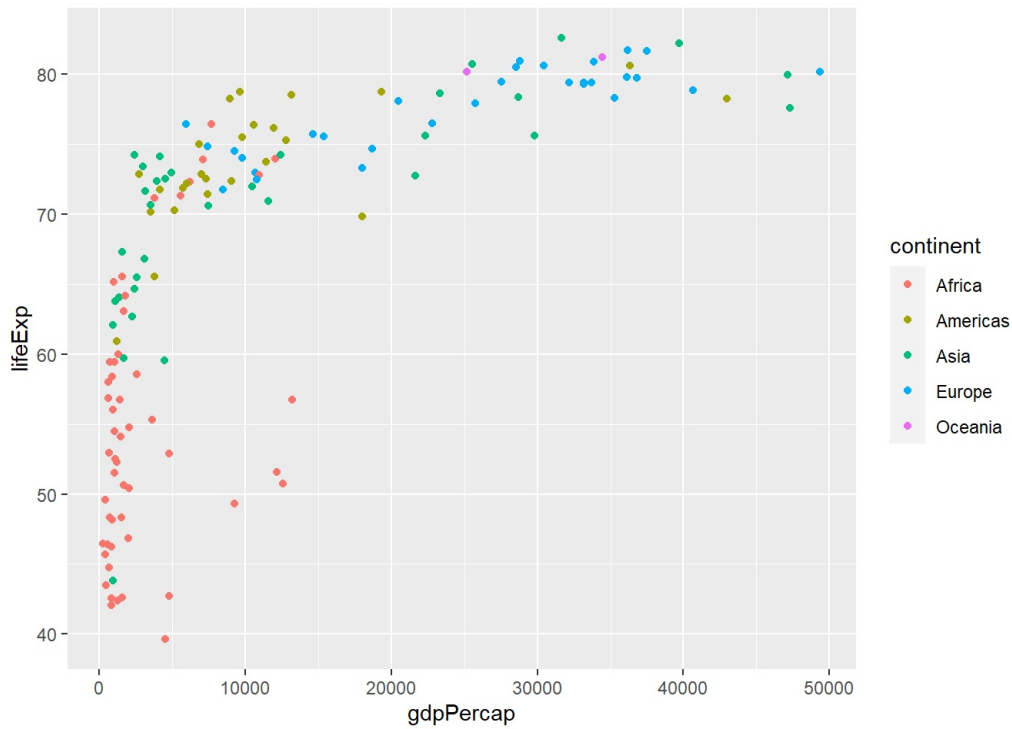
como hacer grafica de puntos con ggplot2

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



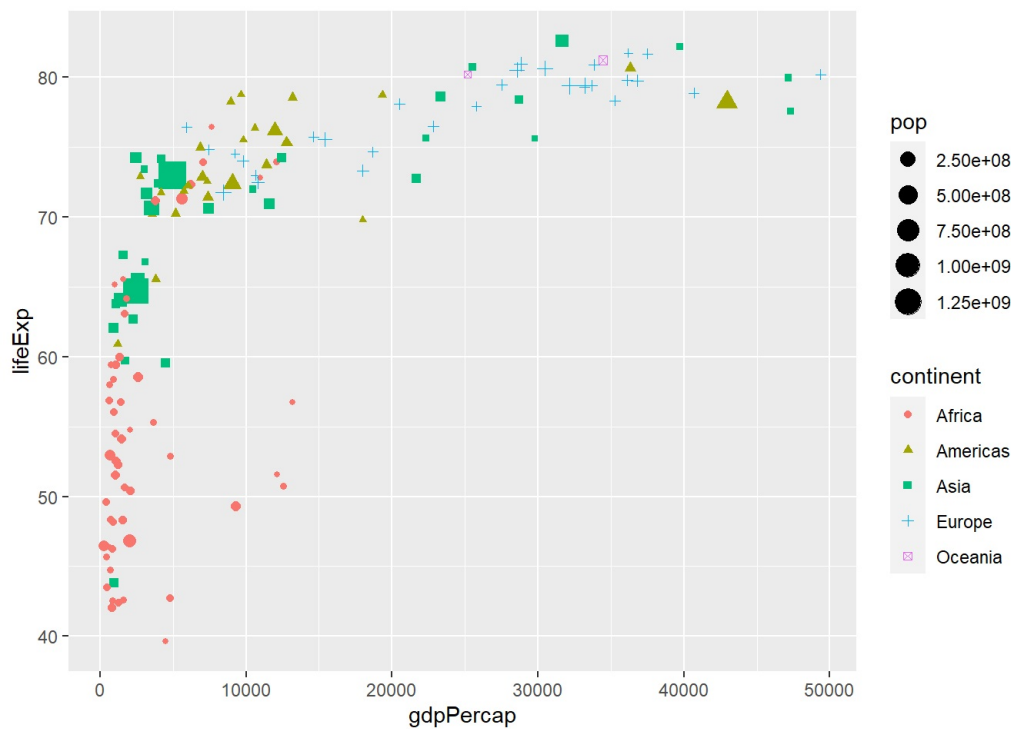
probando diferentes colores

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



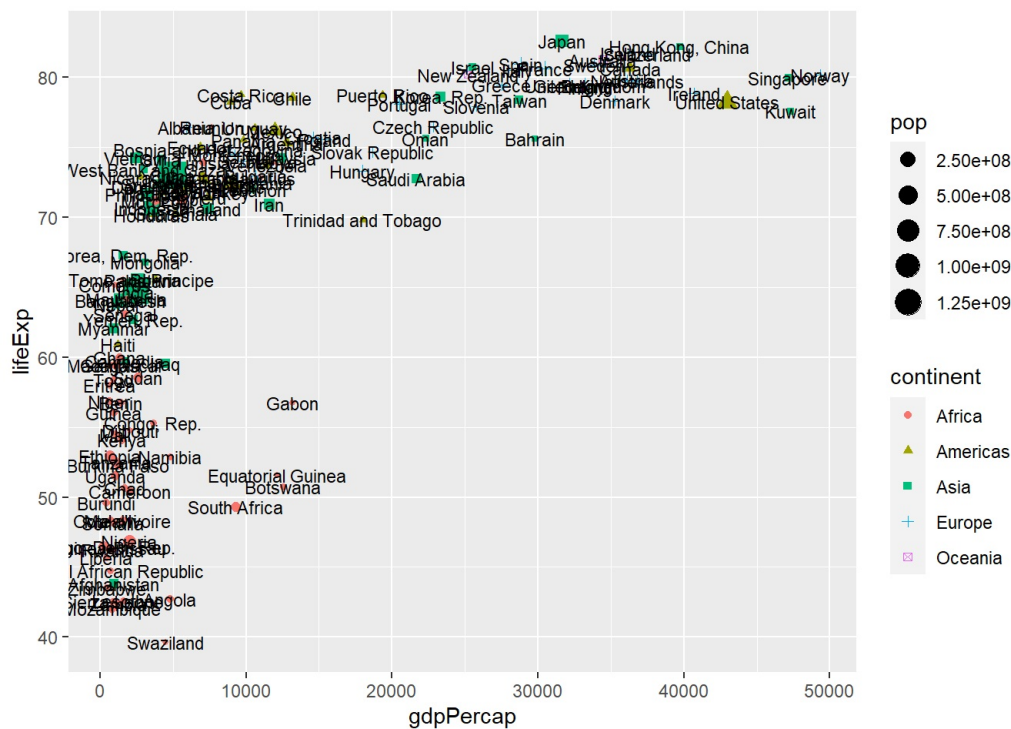
probando diferentes más aesthetics

```
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'
```

