Lab_33_Graf_puntos

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Instalar paquete con los datos install.packages("gapminder") #cargando paquete con los datos

```
library(gapminder)
```

#cargando datos a entorno

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

#filtrado por año 2007

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

#Echando un ojo a los datos

```
head (gapminder2007)
```

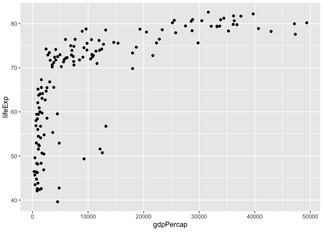
```
## # A tibble: 6 x 6
##   country     continent  year lifeExp      pop gdpPercap
##   <fct>       <fct>     <int>   <dbl>    <int>     <dbl>
## 1 Afghanistan Asia       2007    43.8 31889923      975.
## 2 Albania     Europe     2007    76.4  3600523     5937.
## 3 Algeria     Africa     2007   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

```
library(ggplot2)
```

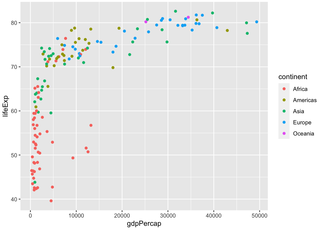
cómo hacer gráfica de puntos con ggplot2

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



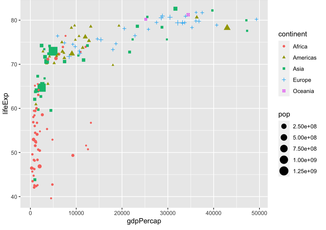
probando diferentes colores

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



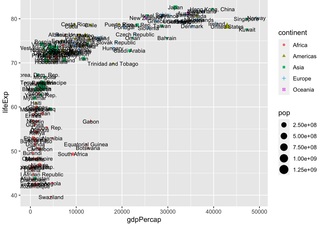
Probando diferenteses esteticas

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



Colocando texto dentro del gráfico

```
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)
```



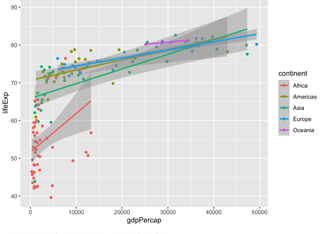
Colocar líneas de regresión

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

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

```
## Warning in qt((1 - level)/2, df): NaNs produced
```

```
## Warning in max(ids, na.rm = TRUE): no non-missing arguments to max; returning -
## Inf
```



Quitamos desviación estandar para hacerlo más estético

```
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'
```