



INSTITUTO DE CIENCIAS ECONÓMICO ADMINISTRATIVAS
DOCTORADO EN CIENCIAS ECONÓMICO ADMINISTRATIVAS

LABORATORIO Rstudio
LABS_49

GRADO: 3ER. SEMESTRE



MATERIA:

**COMPLEJIDAD
ECONÓMICA**

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title: "LABS_49"

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LABORATORIO BOXPLOT

LABORATORIO - Graficos en R con ggplot2 para Ciencia de Datos Histogramas en R instalando paquete con los datos

```
install.packages("gapminder") install.packages("ggplot2")
```

cargar libreria ggplot2 y gapminder

```
library(ggplot2)
library(gapminder)
```

cargando datos a entorno

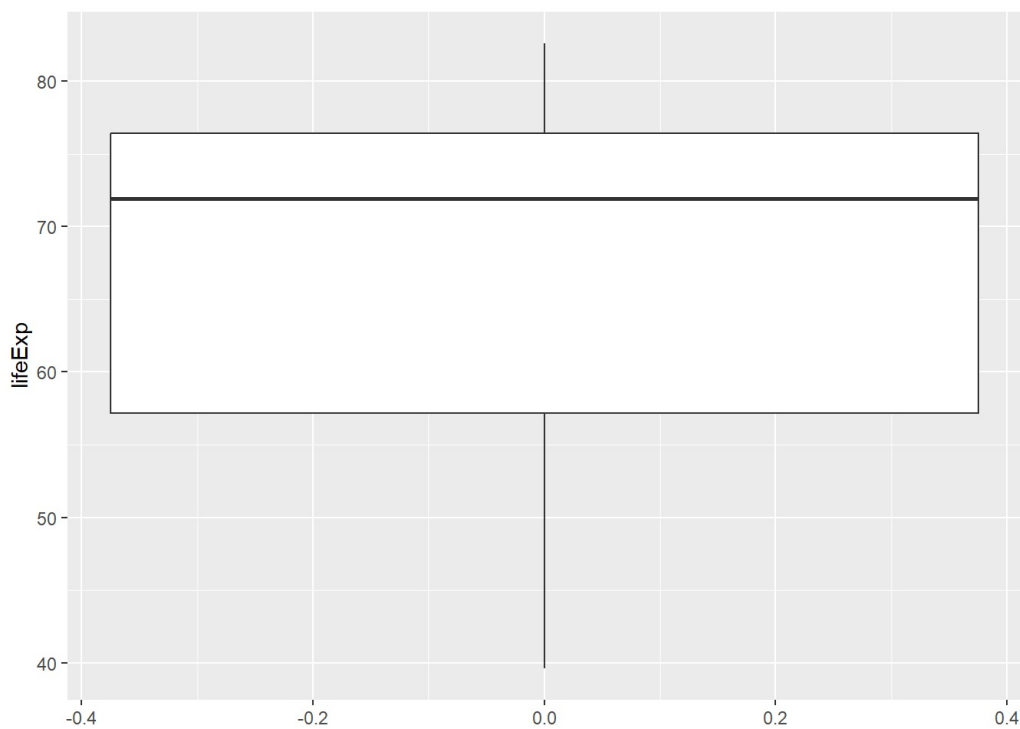
```
data("gapminder")
```

filtrando por año 2007

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

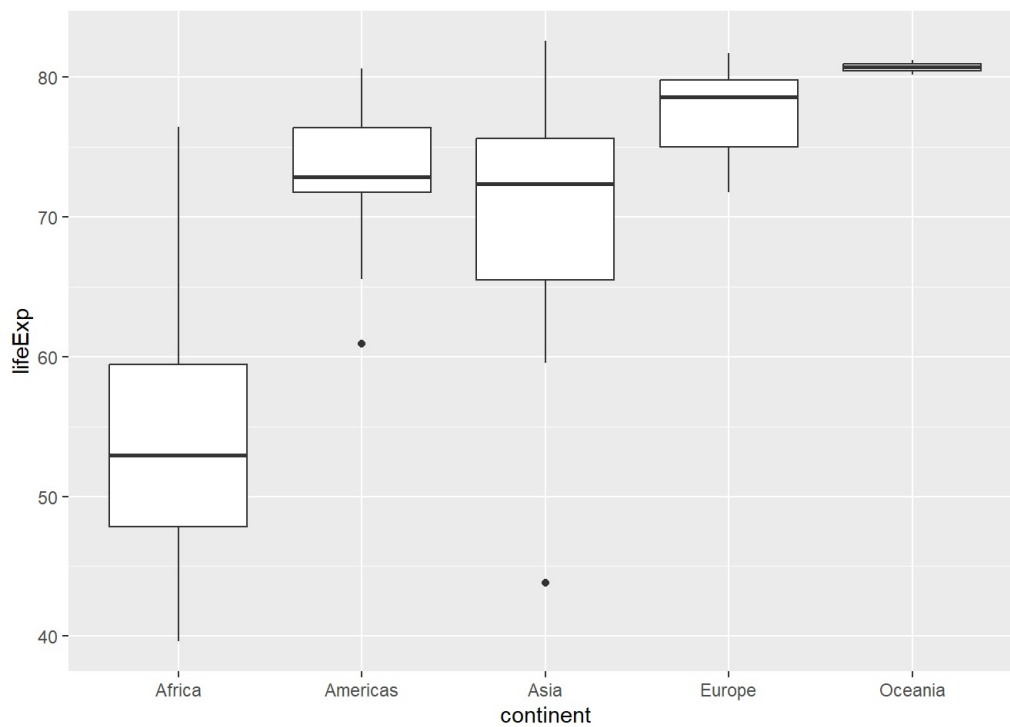
boxplot en ggplot2

```
ggplot(data = gapminder2007,
       mapping = aes(y=lifeExp))+
  geom_boxplot()
```



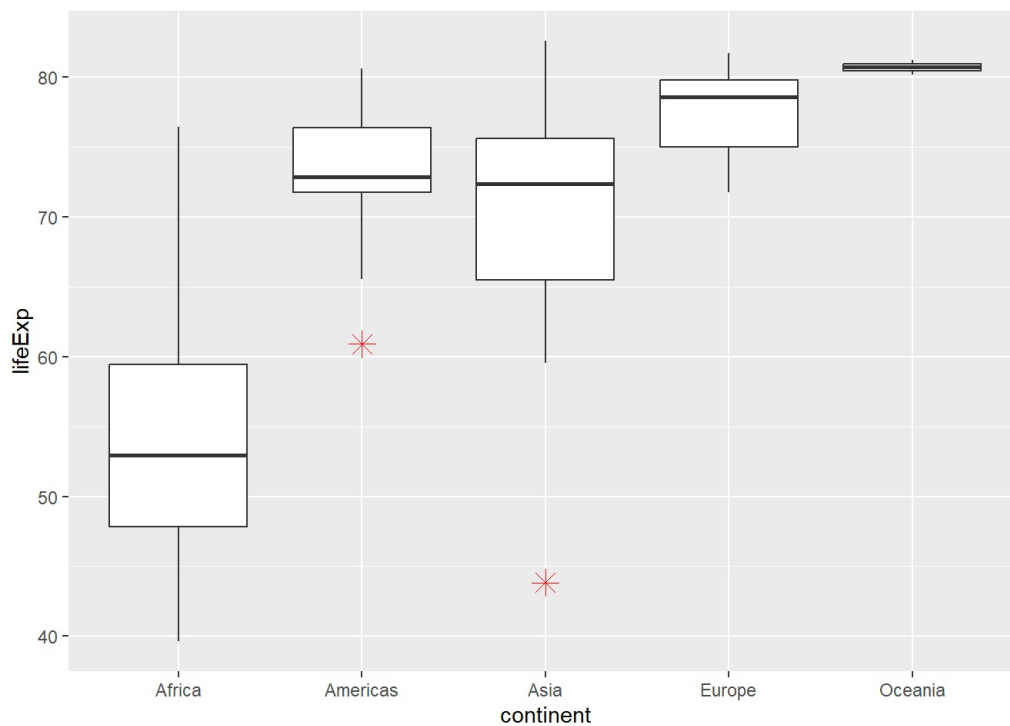
boxplot varias variables ggplot2

```
ggplot(data = gapminder2007,
       mapping = aes(x=continent,
                     y=lifeExp))+
  geom_boxplot()
```



marcando datos atipicos

```
ggplot(data = gapminder2007,
       mapping = aes(x=continent,
                     y=lifeExp))+
  geom_boxplot(outlier.colour = "red",
               outlier.shape = 8,
               outlier.size = 4)
```



marcando datos atipicos (vertical)

```
ggplot(data = gapminder2007,
       mapping = aes(x=continent,
                     y=lifeExp))+
  geom_boxplot(outlier.colour = "red",
               outlier.shape = 8,
               outlier.size = 4)+
  coord_flip()
```