

# Laboratorio49-MD

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Laboratorio 49- Diagrama de cajas y bigotes (boxplot) con ggplot2

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

Llamar la librerias

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

Cargar los datos al entorno

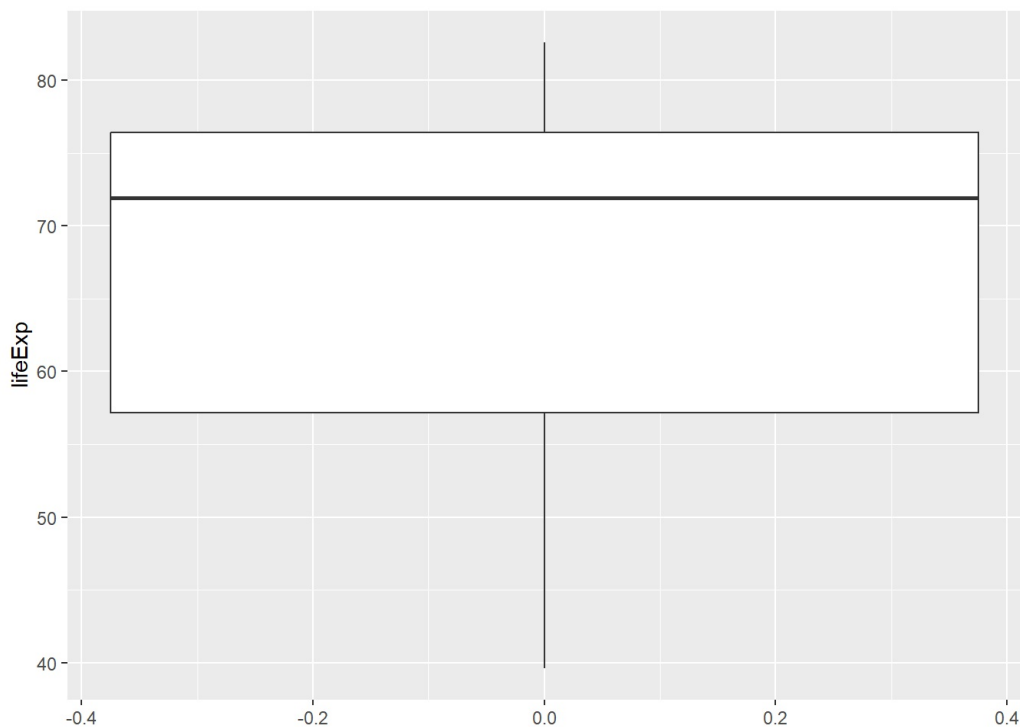
```
data("gapminder")
```

Filtrado por año 2007

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

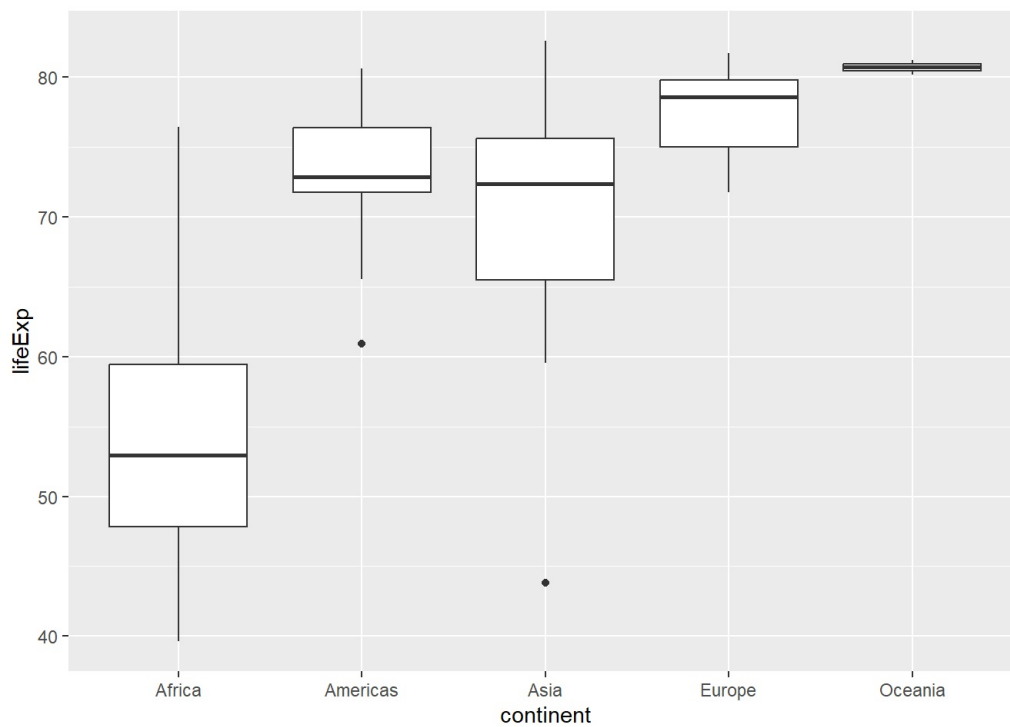
Crear un diagrama de caja y bigotes o boxplot solo con el eje y

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



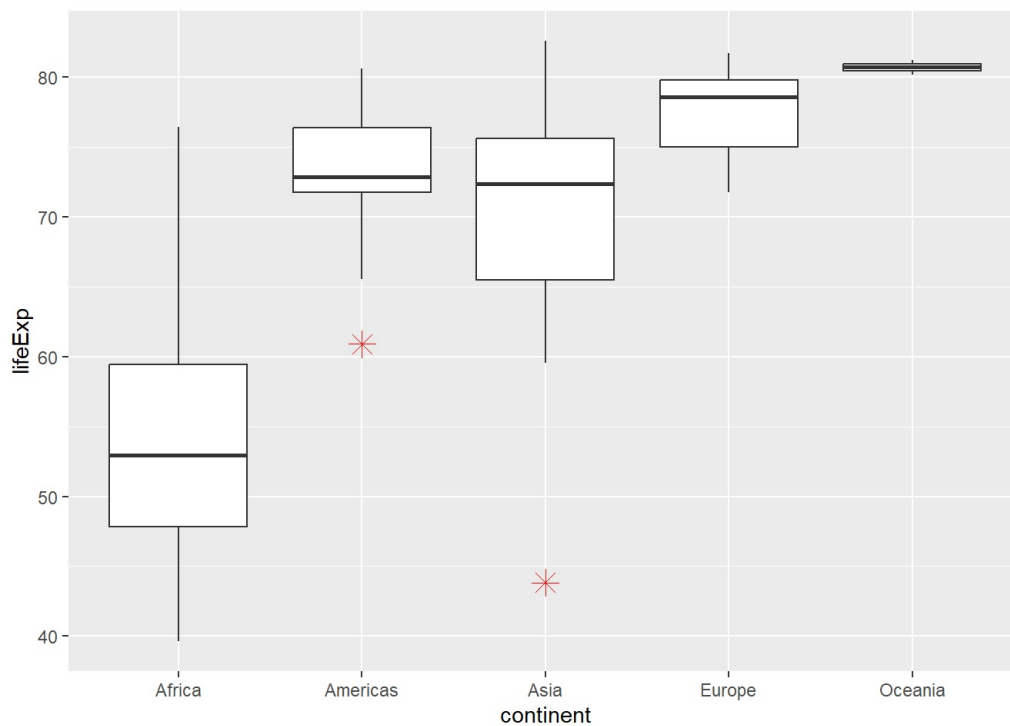
Crear un diagrama de caja y bigotes o boxplot con ambos ejes

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



Marcar los datos atípicos en el boxplot

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



Hacer el boxplot de forma vertical

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



