

LAB 37 (MD)

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BOXPLOT EN R (DIAGRAMA DE CAJAS Y BIGOTES)

Instalando paquete con los datos

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

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

Cargar librería ggplot2 y gapminder

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

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

Cargando datos a entorno

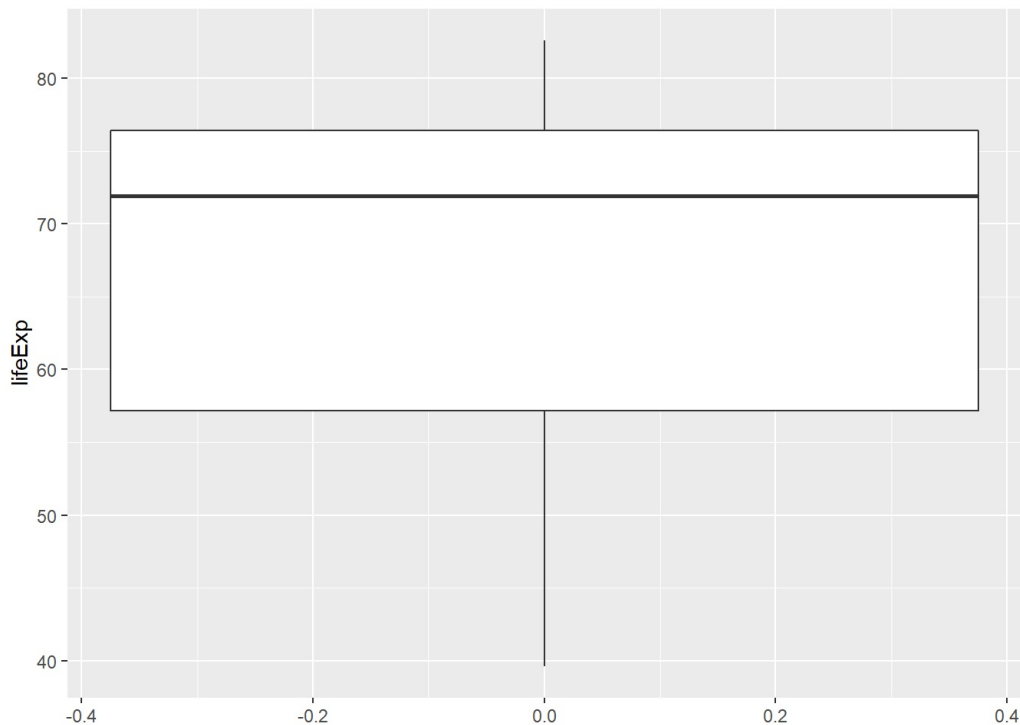
```
data("gapminder")
```

Filtrando por año 2007

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

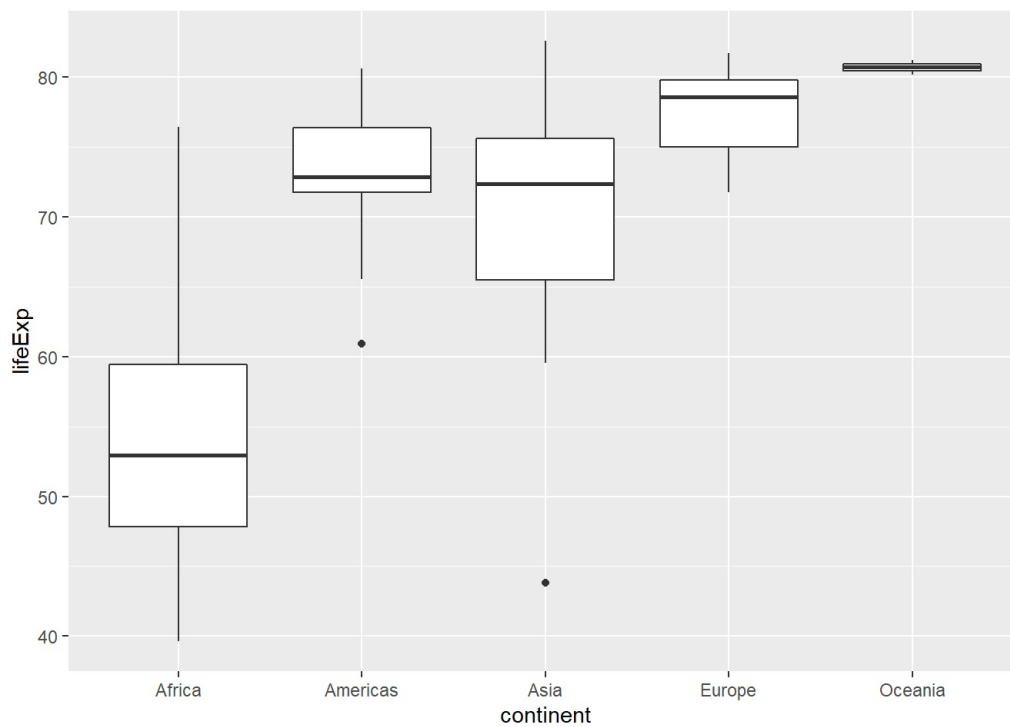
Boxplot en ggplot2

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



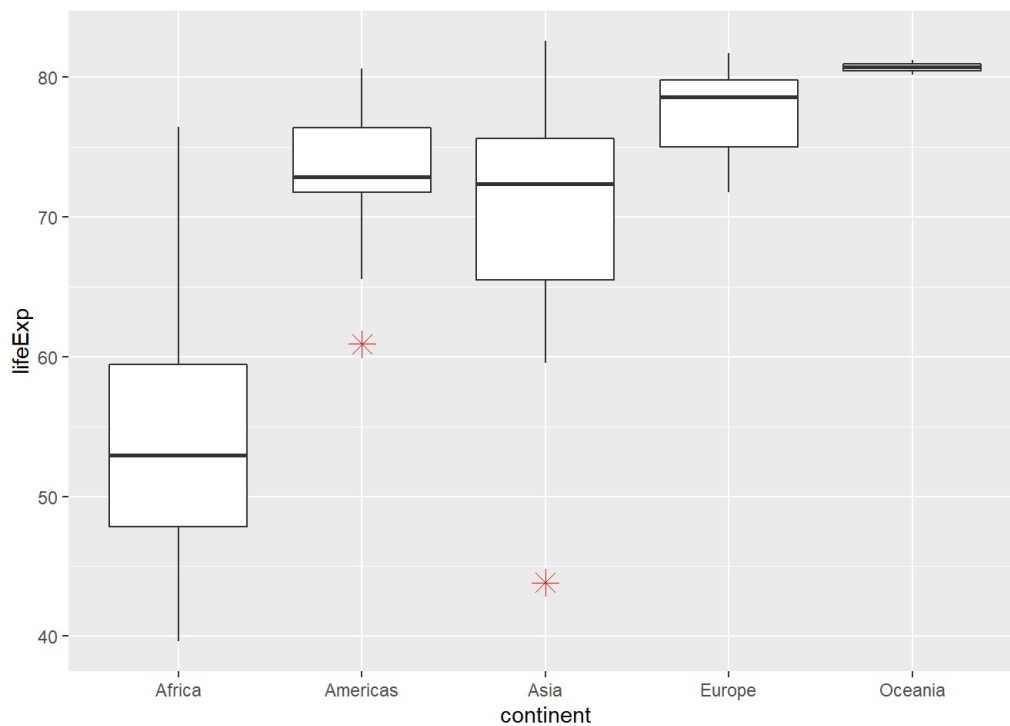
Boxplot varias variables ggplot2

```
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()
```