

# R Notebook

Code ▼

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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

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

Cargar los datos al entorno

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

Filtrado por año 2007

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

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

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

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

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

Marcar los datos atípicos en el boxplot

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```
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

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

Marcar datos atipicos y todas las observaciones

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```
ggplot(data = gapminder2007,  
       mapping = aes(x= continent,  
                     y = lifeExp))+  
  geom_boxplot()+  
  geom_jitter(shape =16,  
             position = position_jitter(0.2))
```

Colorear cada uno de los continentes

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