

# LAB 40 (MD)

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LABORATORIO - Gráficos en R con ggplot2 para Ciencia de Datos EDITANDO EL COLOR DE LOS GRÁFICOS (PARTE 1)

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', ]
```

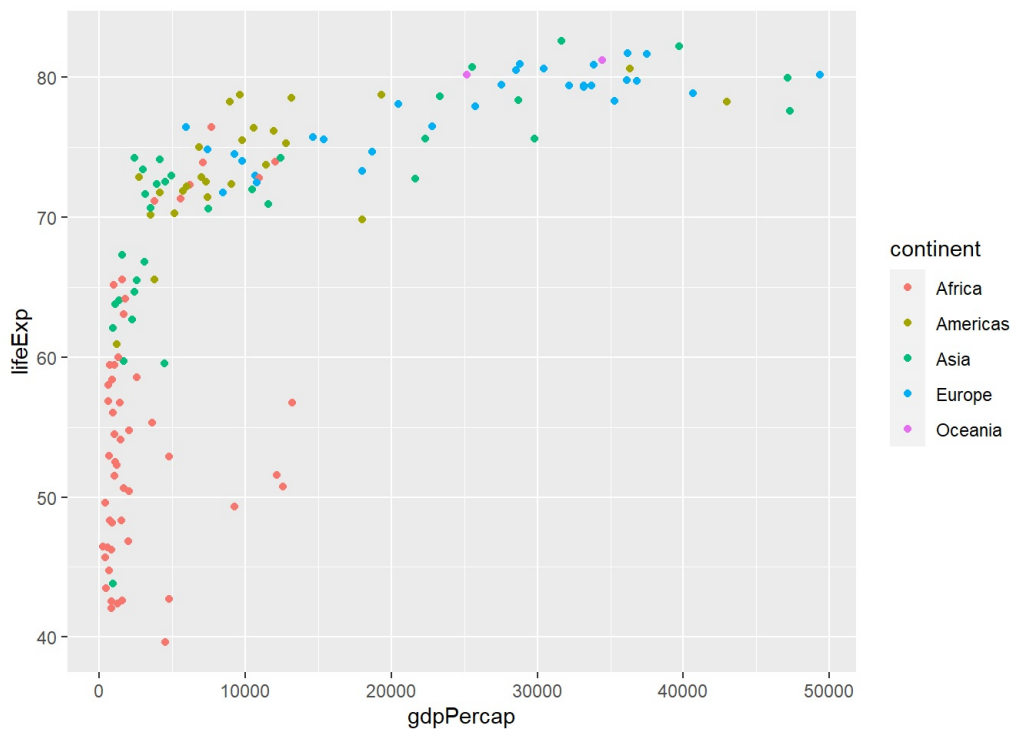
De donde sacar colores? <http://www.stat.columbia.edu/~tzheng/files/Rcolor.pdf> (<http://www.stat.columbia.edu/~tzheng/files/Rcolor.pdf>)

Escala discreta Haciendo grafica de puntos por continente

```
g1 <- ggplot(data = gapminder2007,
             mapping = aes(x = gdpPercap,
                           y = lifeExp,
                           color = continent)) +
  geom_point()
```

Ver g1

```
g1
```

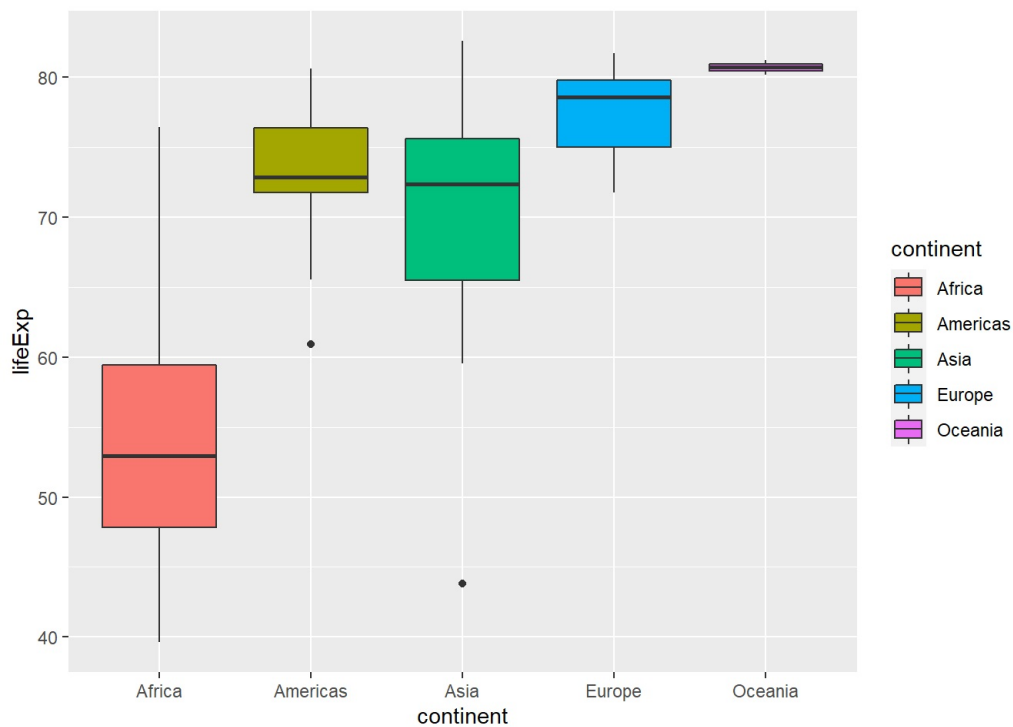


Haciendo boxplot en continentes

```
g2 <- ggplot(data = gapminder2007,
             mapping = aes(x = continent,
                           y = lifeExp,
                           fill = continent)) +
  geom_boxplot()
```

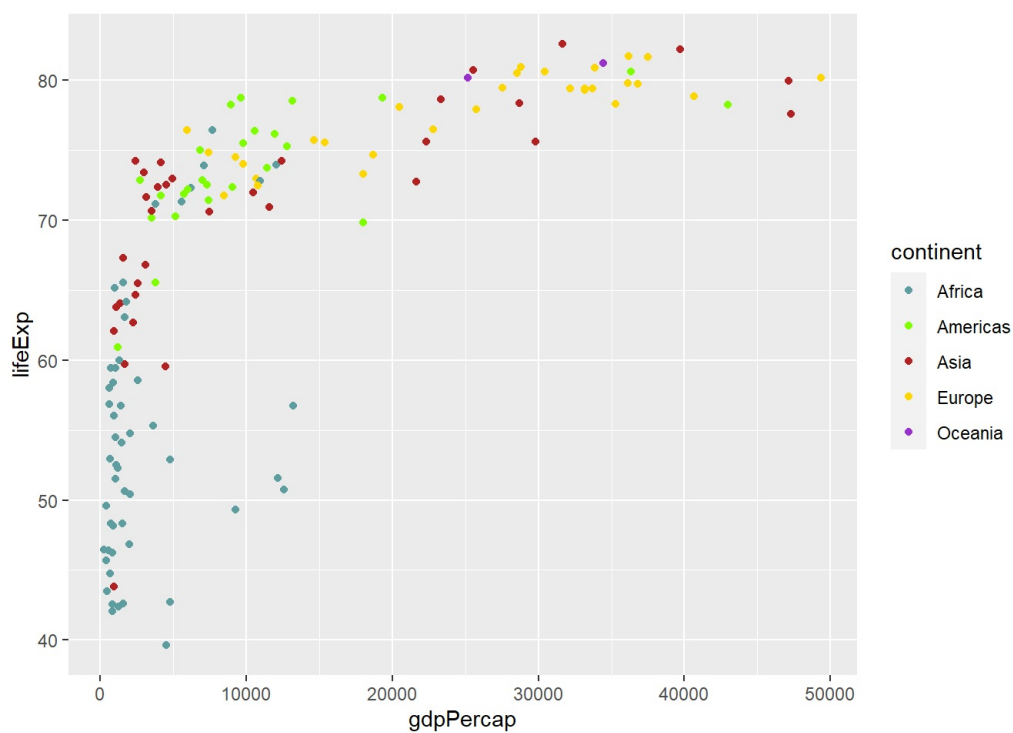
Ver g2

g2

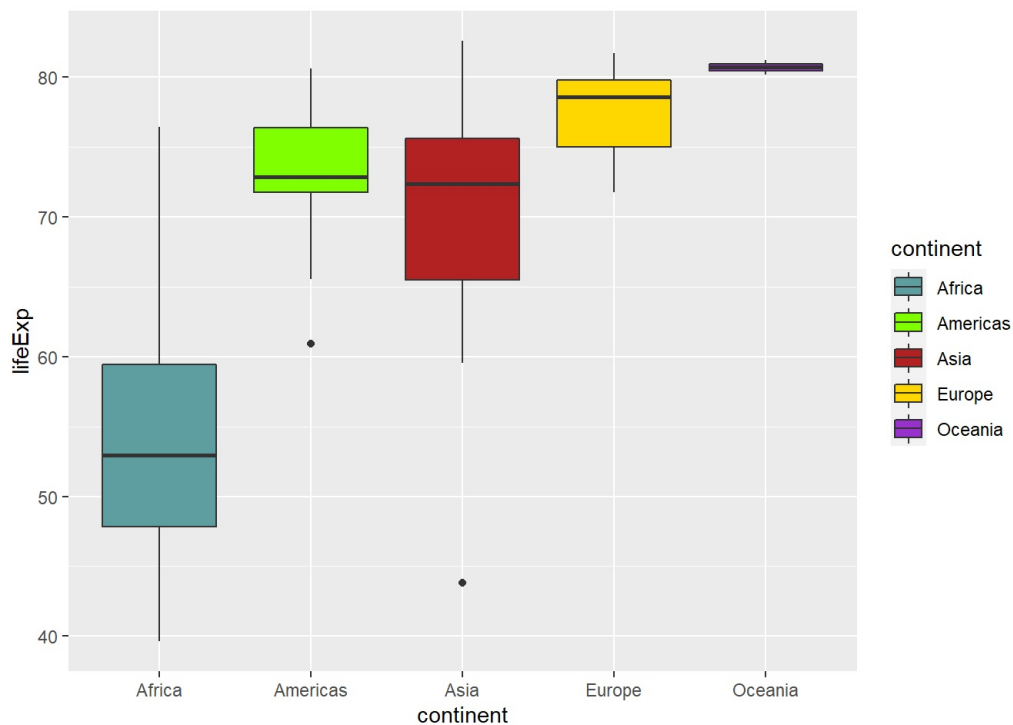


Cambiando el color de los continentes

```
g1 + scale_color_manual (values = c('cadetblue',
                                     'chartreuse',
                                     'firebrick',
                                     'gold',
                                     'darkorchid'))
```



```
g2 + scale_fill_manual (values = c('cadetblue',
                                   'chartreuse',
                                   'firebrick',
                                   'gold',
                                   'darkorchid'))
```



Cambiando colores con paleta RColorBrewer Instalar RColorBrewer `install.packages('RColorBrewer')`

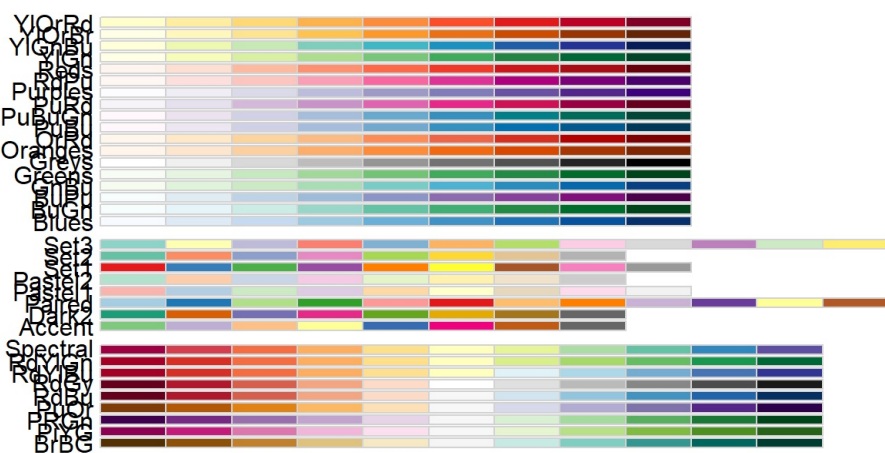
Cargar libreria

```
library(RColorBrewer)
```

```
## Warning: package 'RColorBrewer' was built under R version 3.5.2
```

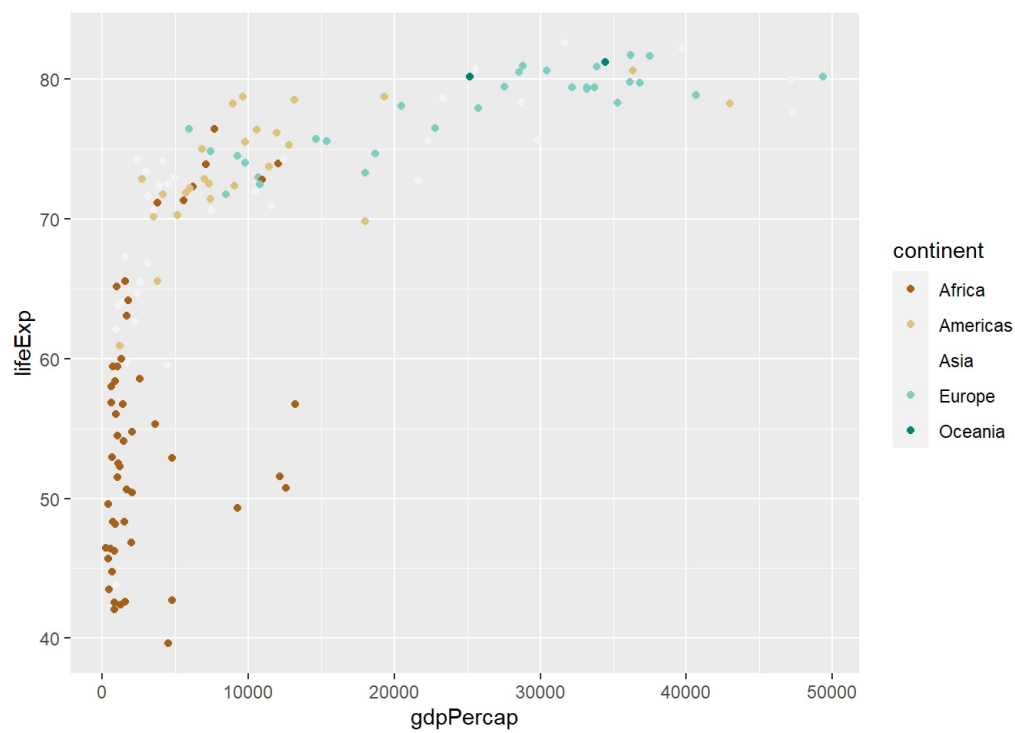
Para ver las paletas

```
display.brewer.all()
```

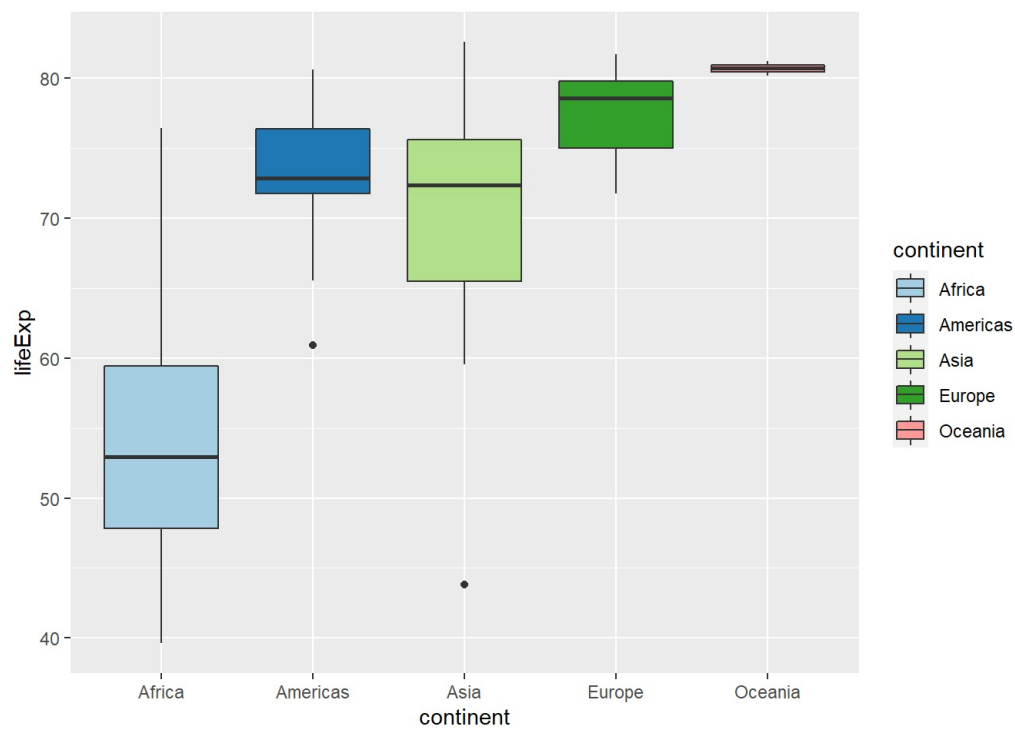


Cambiando escala de color

```
g1 + scale_color_brewer(palette = "BrBG")
```

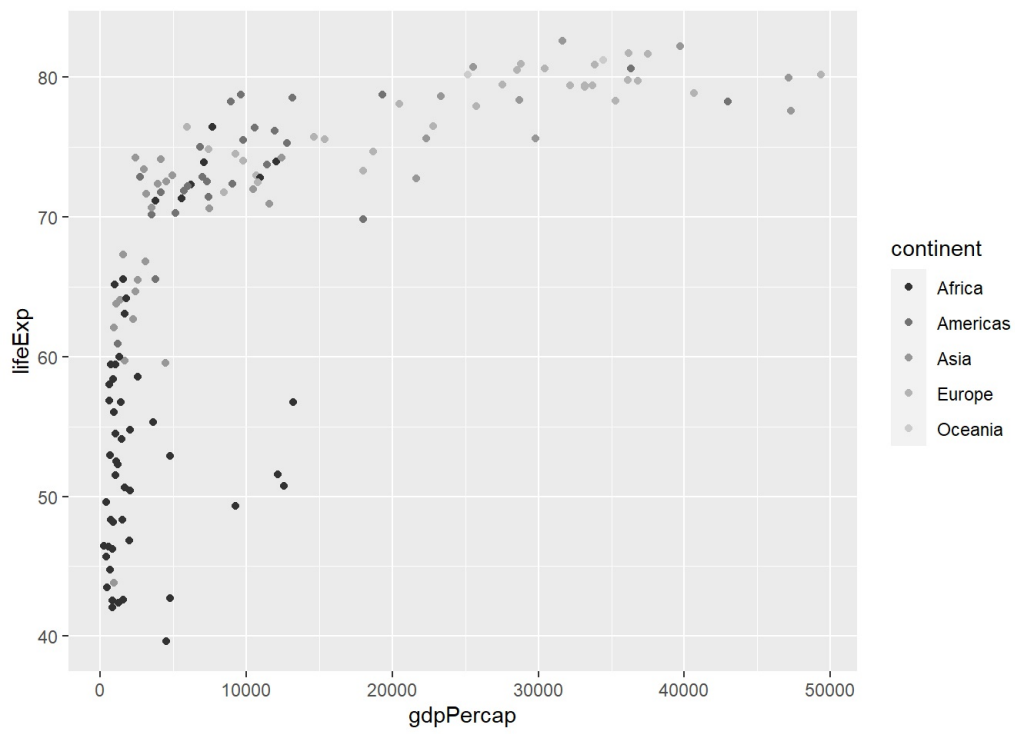


```
g2 + scale_fill_brewer(palette = "Paired")
```



Cambiando escala de grises

```
g1 + scale_color_grey()
```



```
g2 + scale_fill_grey()
```

