

LAB 35 (MD)

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Instalando paquete con los datos

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

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

Cargar libreria ggplot2 y gapminder

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

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

Cargando datos a entorno

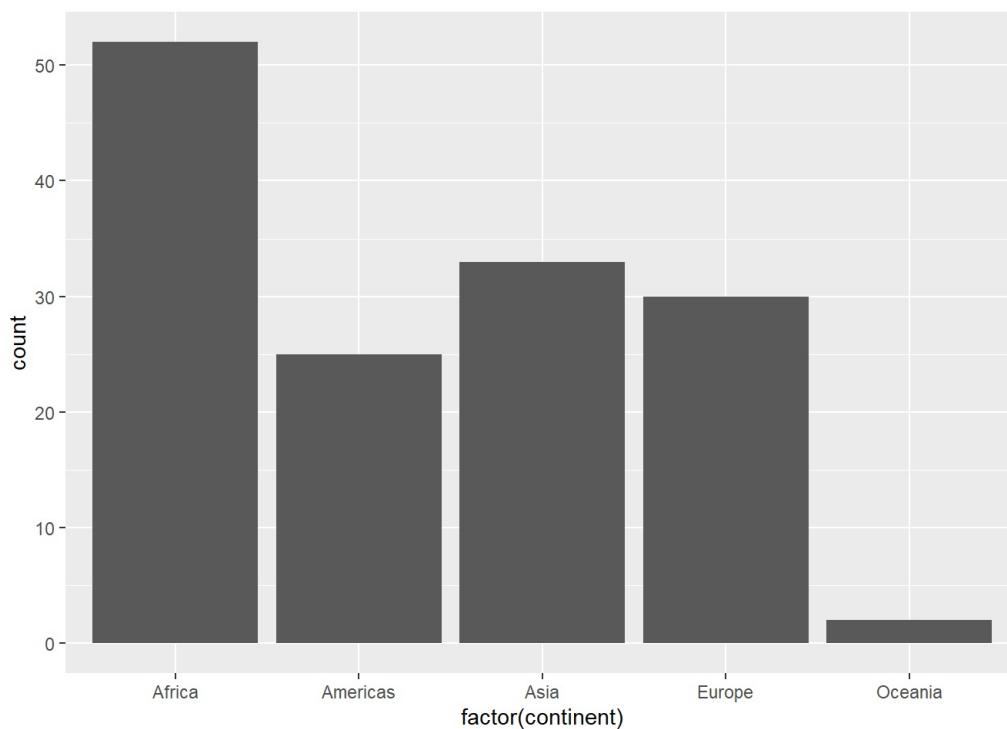
```
data("gapminder")
```

Filtrando por año 2007

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

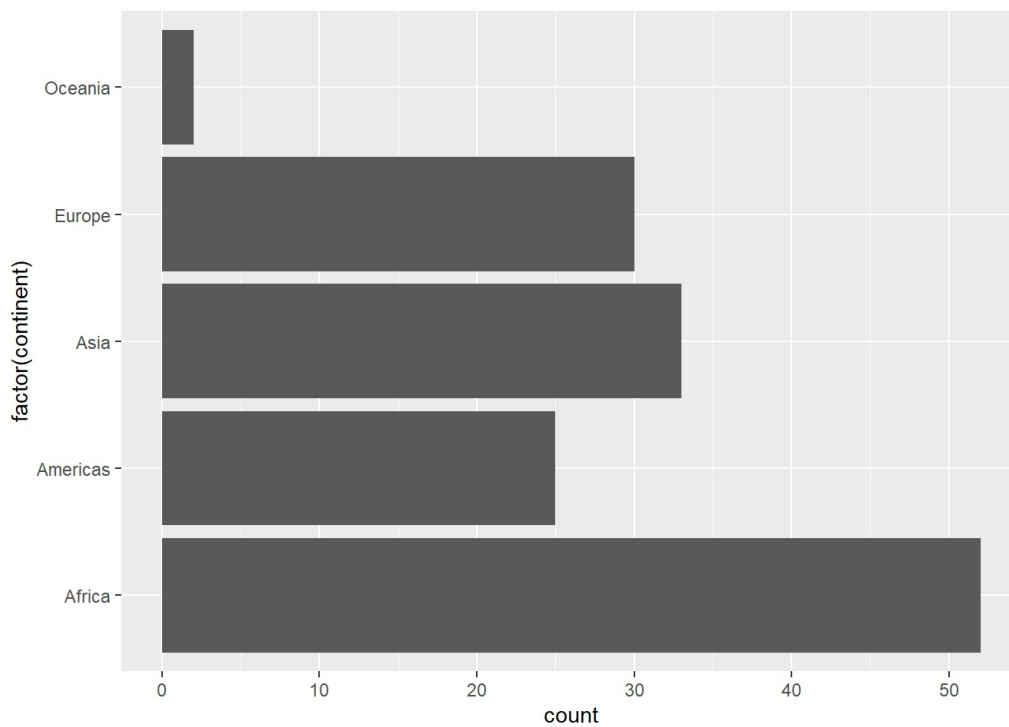
Grafica de barras

```
ggplot(data = gapminder2007,
       mapping = aes(x = factor(continent))) +
  geom_bar()
```



Grafica de barras (VERTICAL)

```
ggplot(data = gapminder2007,
       mapping = aes(x = factor(continent))) +
  geom_bar() +
  coord_flip()
```



Creando etiqueta para expectativa de vida

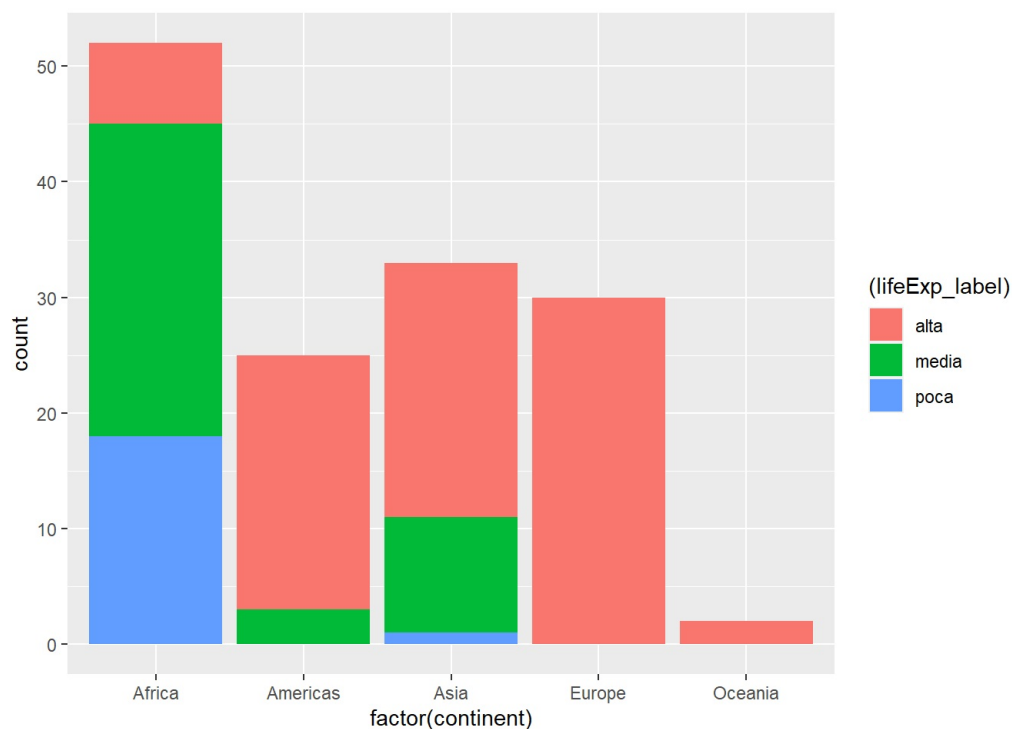
```
gapminder2007$lifeExp_label <- ifelse(
  gapminder2007$lifeExp < 50 ,
  "poca",
  ifelse(gapminder2007$lifeExp < 70,
    "media" ,
    "alta"))
```

Guardando grafica en variable

```
p <- ggplot(data = gapminder2007,
  mapping = aes(x = factor(continent),
    fill = (lifeExp_label)))
```

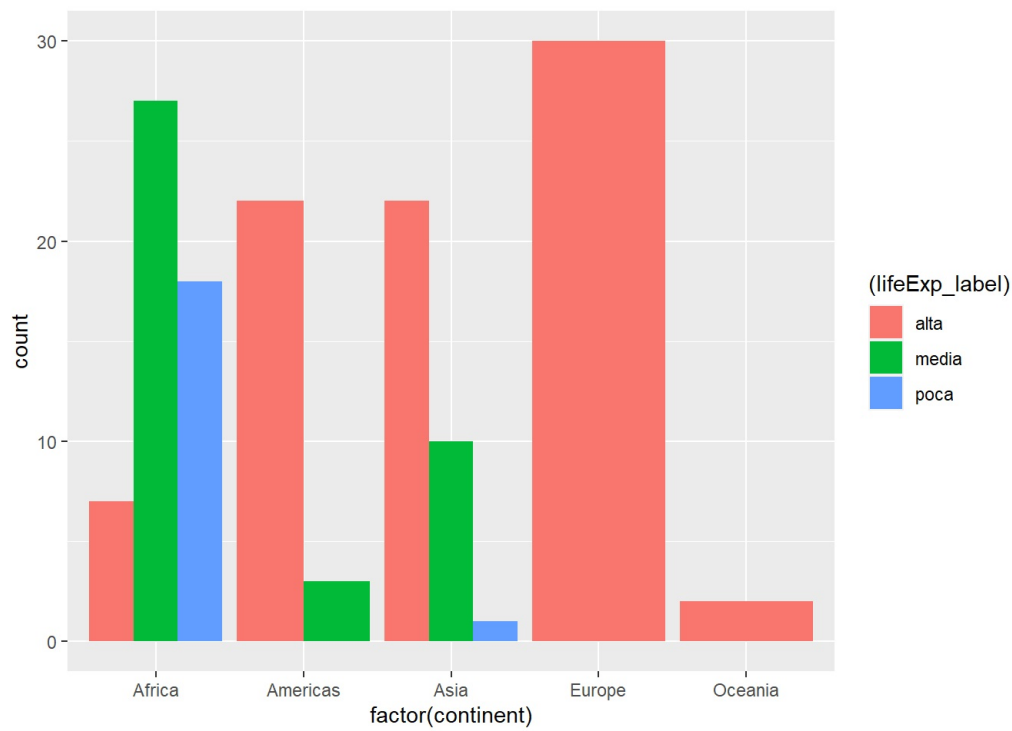
Stacked bar chart (apilada)

```
p + geom_bar (position = "stack" , stat="count")
```



Dogde bar chart (separada)

```
p + geom_bar (position = "dodge" , stat="count")
```



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```
p + geom_bar (position = "fill" , stat="count")
```

