

# Grafico de barras lab 35

Luz Yolanda Rivera  
9/30/2021

Hecho con gusto por Luz Yolanda Rivera Álvarez (UAEH)

## LABORATORIO - Gráficos en R con ggplot2 para Ciencia de Datos

### Graficas de barras en R

#instalando paquete con los datos #install.packages("gapminder") #install.packages("ggplot2") # Grafica de lineas en R

### cargar libreria ggplot2 y gapminder

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

cargando datos a entorno

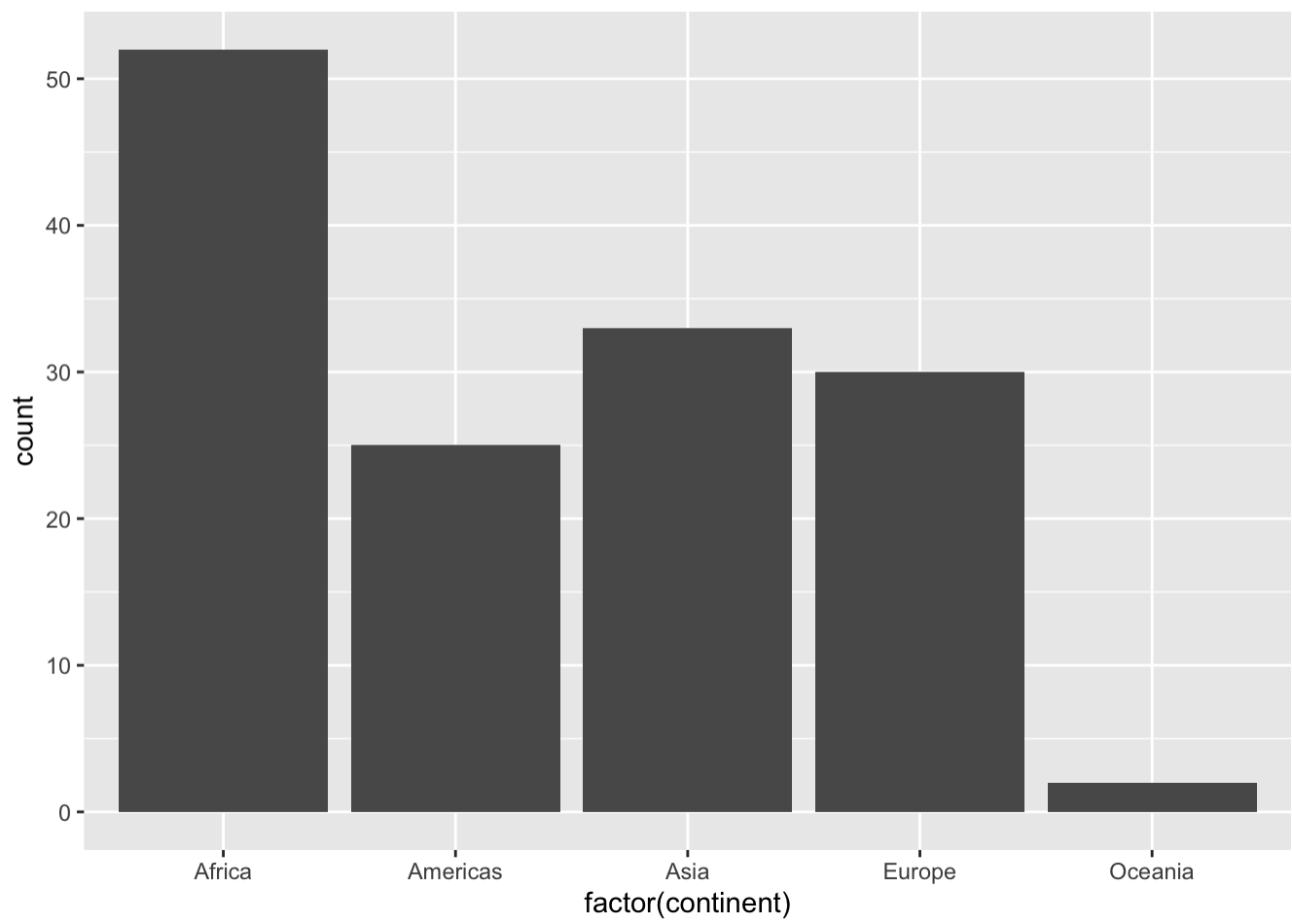
```
data("gapminder")
```

### filtrando por año 2007

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

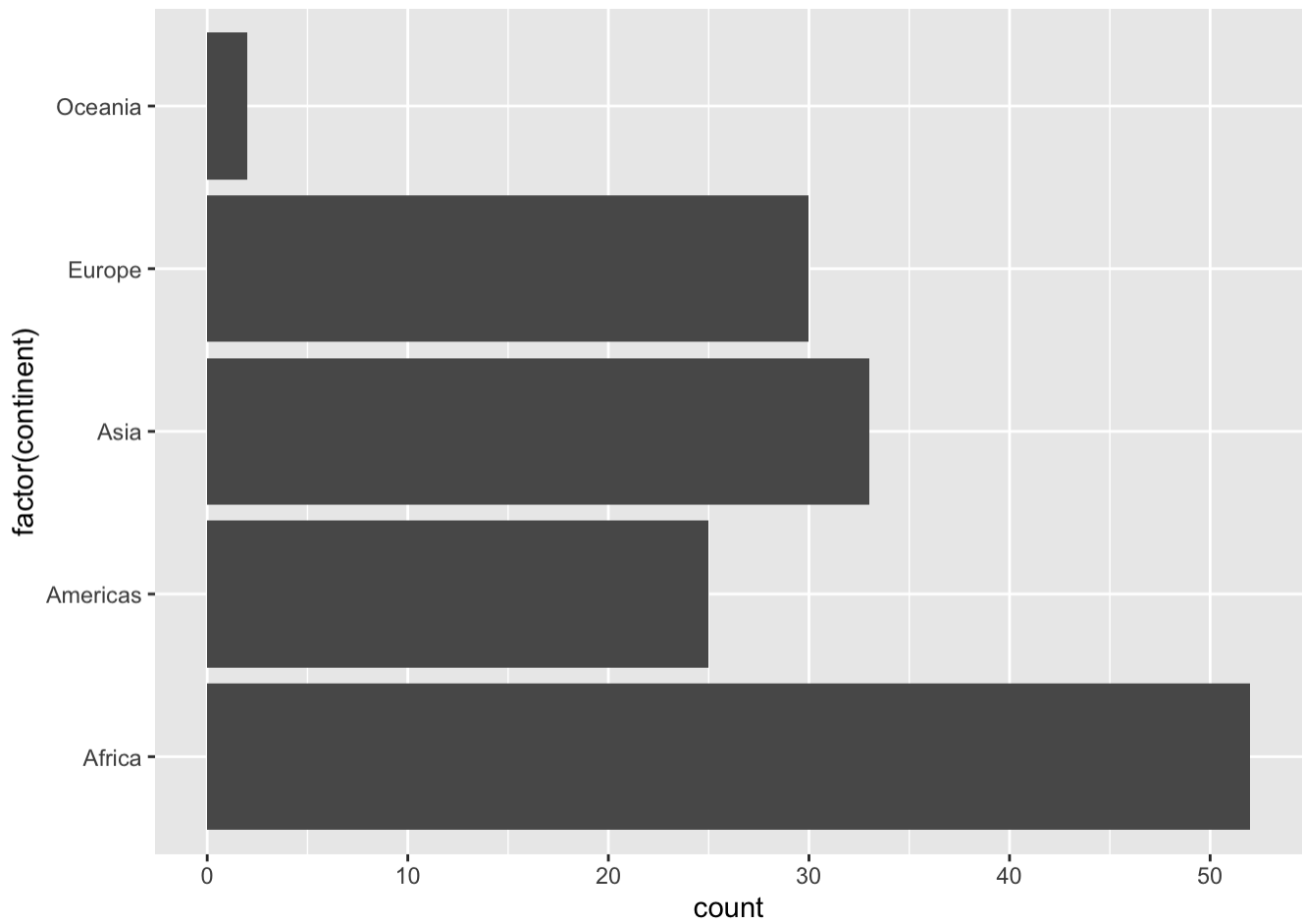
### grafica de barras

```
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

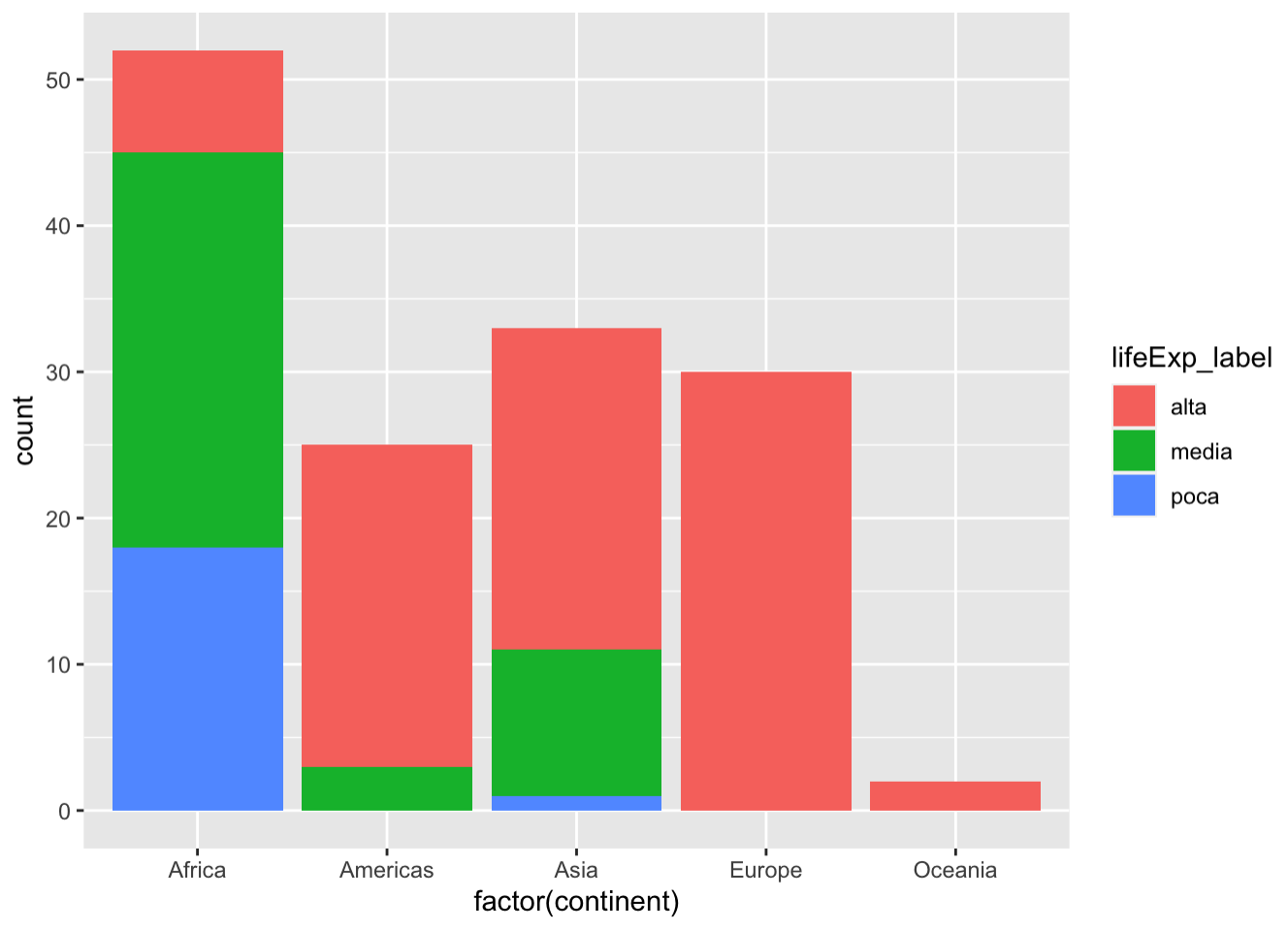
```
gapminder2007$lifeExp_label = ifelse(
  gapminder2007$lifeExp < 50,
  "poca",
  ifelse( gapminder2007$lifeExp < 70,
    "media",
    "alta"))
```

### guardando grafica en variable

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

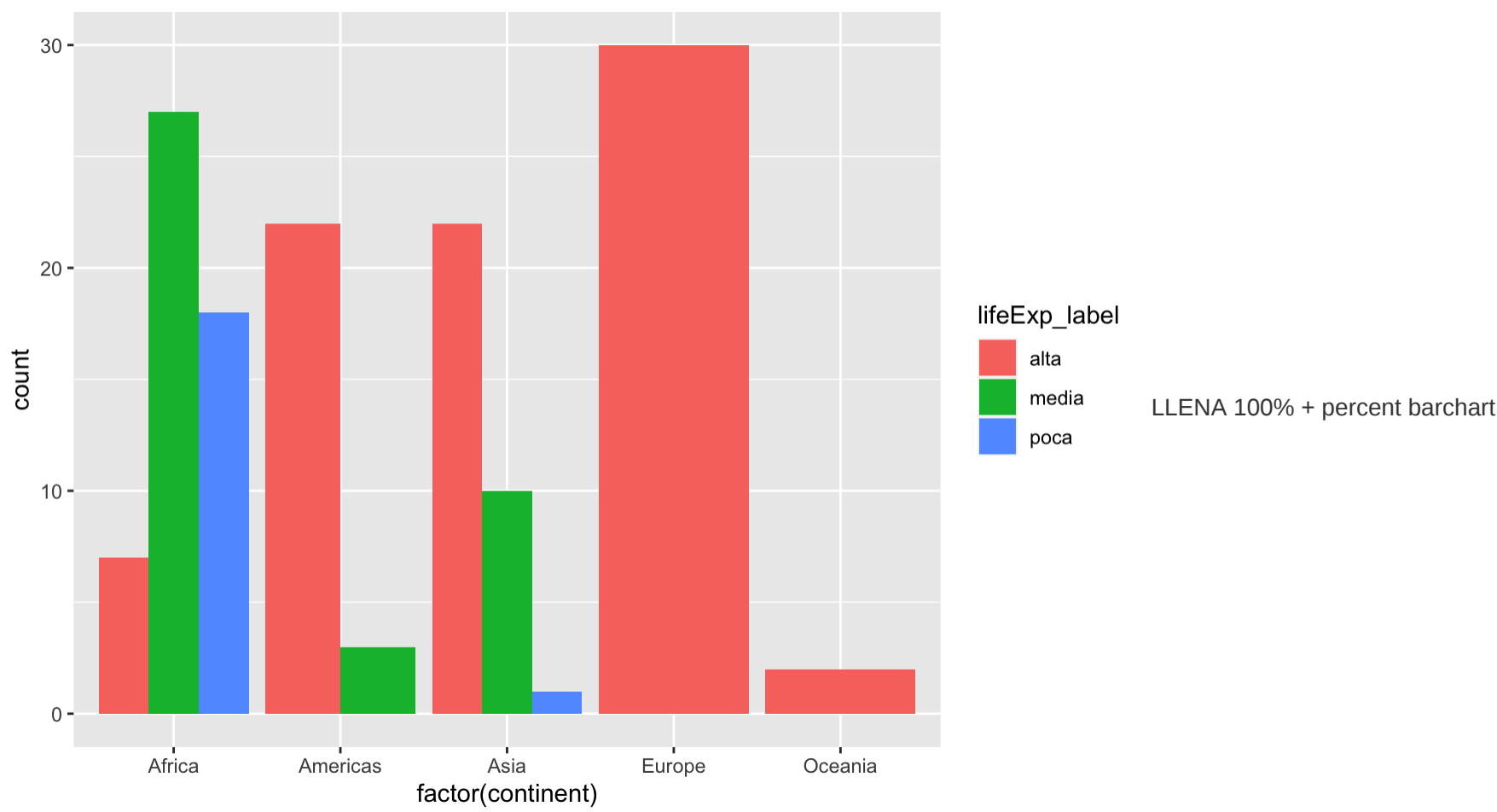
### stacked bar chart (apilalada)

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



### dogde bar chart (separada)

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



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

