

Laboratorio46-MD

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Laboratorio 46- Grafico lineal con ggplot2

Instalar paqueterias `install.packages("gapminder")` `install.packages("ggplot2")`

Llamar la librerias

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

Cargar los datos al entorno

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

Filtrando un solo pais

```
gapminderIndia = gapminder[gapminder$country == "India",]
```

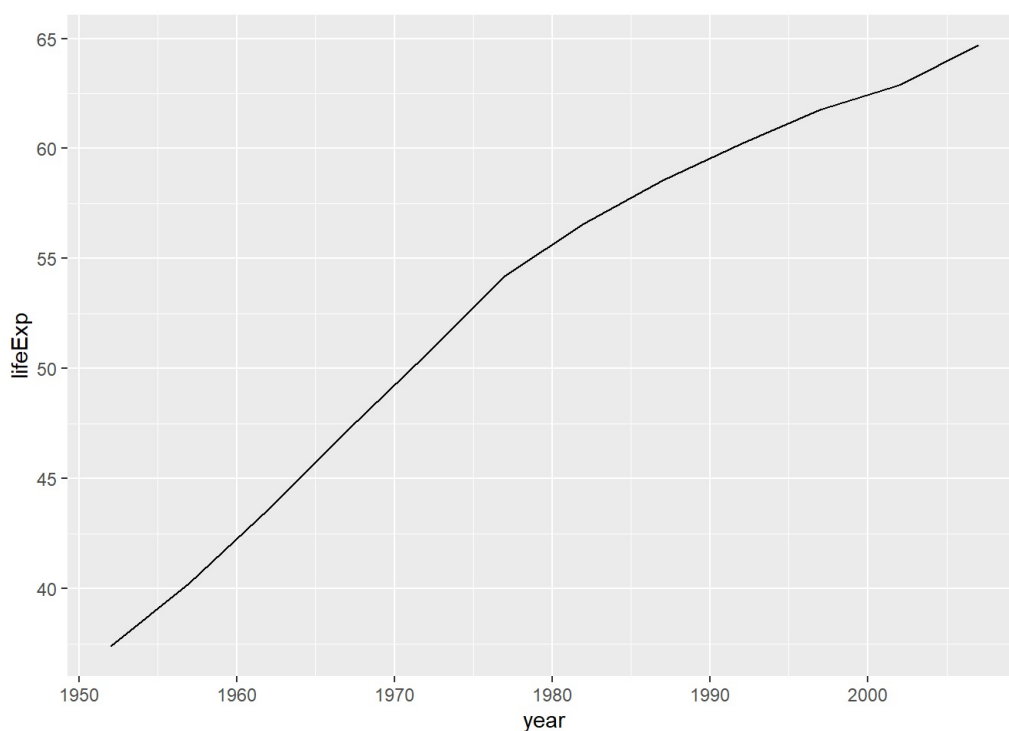
Visualizo datos filtrados

```
head(gapminderIndia)
```

```
## # A tibble: 6 × 6
##   country continent  year lifeExp      pop gdpPercap
##   <fct>   <fct>     <int>   <dbl>    <int>    <dbl>
## 1 India   Asia       1952   37.4 372000000    547.
## 2 India   Asia       1957   40.2 409000000    590.
## 3 India   Asia       1962   43.6 454000000    658.
## 4 India   Asia       1967   47.2 506000000    701.
## 5 India   Asia       1972   50.7 567000000    724.
## 6 India   Asia       1977   54.2 634000000    813.
```

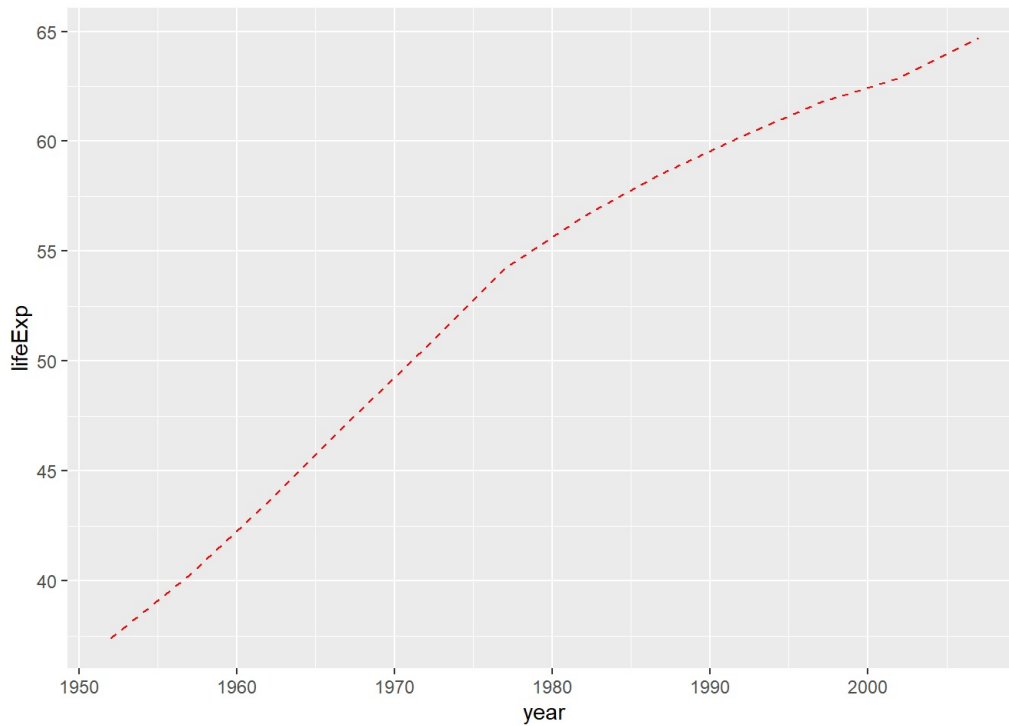
Crear un grafico lineal

```
ggplot(data = gapminderIndia,
       mapping = aes(x= year,
                     y= lifeExp)) +
  geom_line()
```



Modificar algunos atributos del grafico lineal

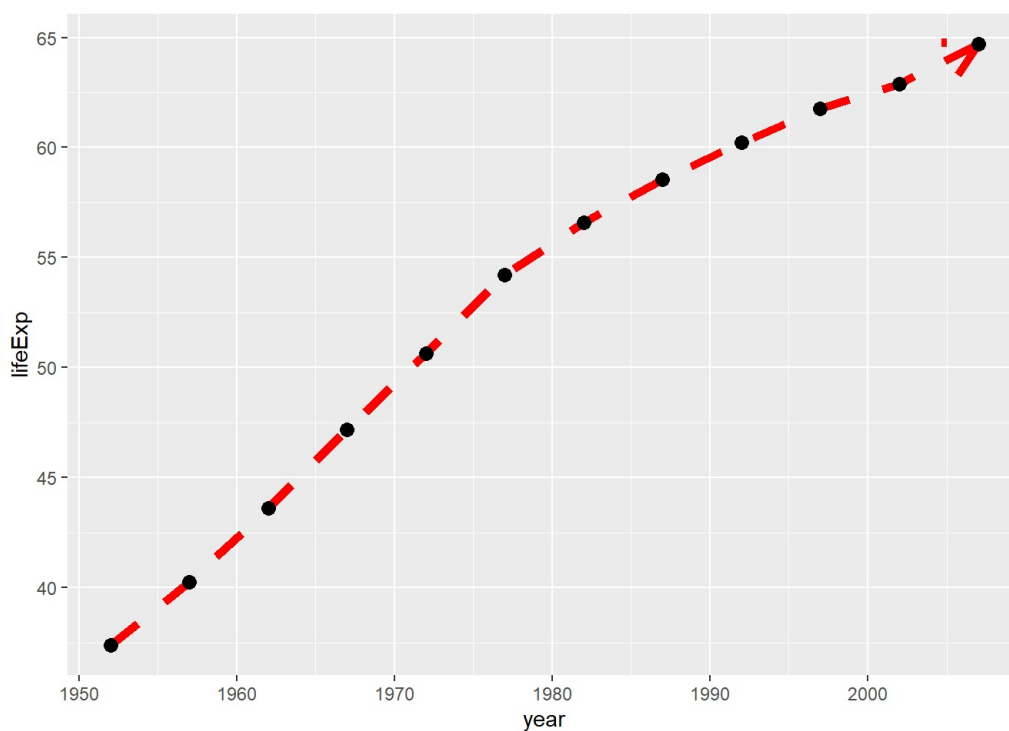
```
ggplot(data = gapminderIndia,
       mapping = aes(x= year,
                     y= lifeExp)) +
  geom_line(linetype = "dashed",
           color = "red")
```



Modificar algunos atributos del grafico lineal

```
ggplot(data = gapminderIndia,
       mapping = aes(x= year,
                     y= lifeExp)) +
  geom_line(linetype = "dashed",
           color = "red",
           arrow = arrow(),
           size = 2) +
  geom_point(size = 3)
```

```
## Warning: Using `size` aesthetic for lines was deprecated in ggplot2 3.4.0.
## i Please use `linewidth` instead.
```



Hacer un vector con los paises de habla hispana

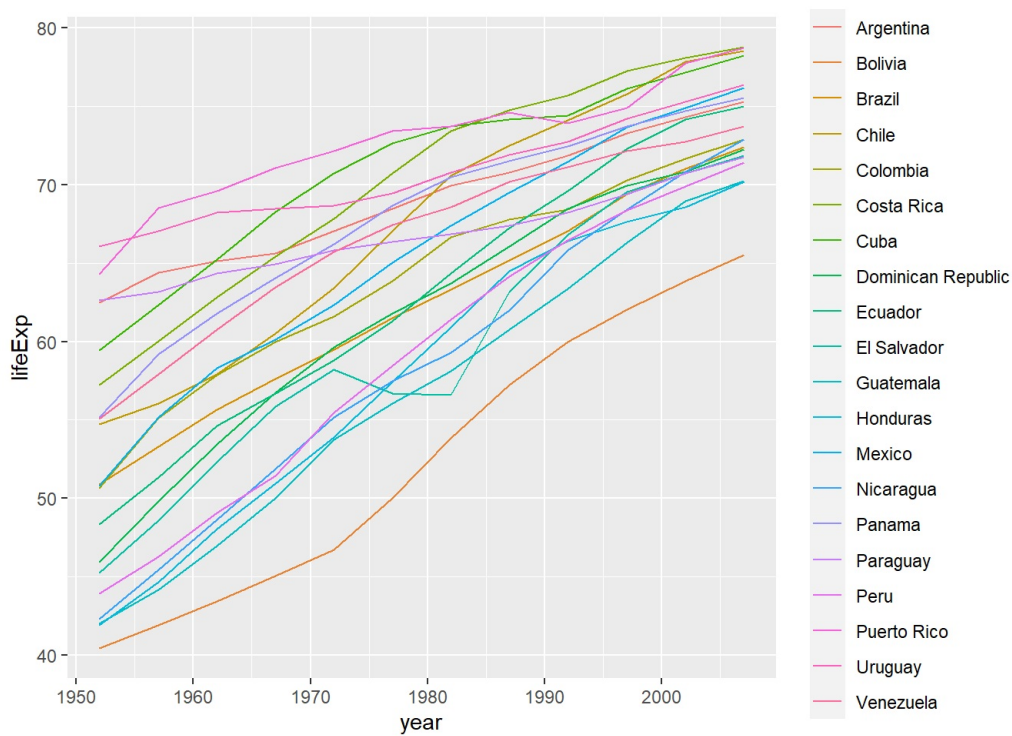
```
hispan_vector = c ('Argentina', 'Brazil','Bolivia', 'Chile', 'Colombia', 'Costa Rica',
                  'Cuba', 'Dominican Republic', 'Ecuador', 'El Salvador', 'Guatemala',
                  'Honduras', 'Mexico', 'Nicaragua', 'Panama', 'Paraguay', 'Peru',
                  'Puerto Rico', 'Uruguay', 'Venezuela')
```

Crear un objeto con los paises de habla hispana

```
gapminder_hispan = gapminder[gapminder$country %in% hispan_vector,]
```

Crear grafico del nuevo objeto

```
ggplot(data = gapminder_hispan,
       mapping = aes(x= year,
                     y= lifeExp,
                     color = country)) +
  geom_line()
```



Exportar archivo

```
write.csv(gapminder_hispan, file = "Hispan.csv")
```