

LAB 34 (MD)

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GRAFICA DE LINEAS EN R

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

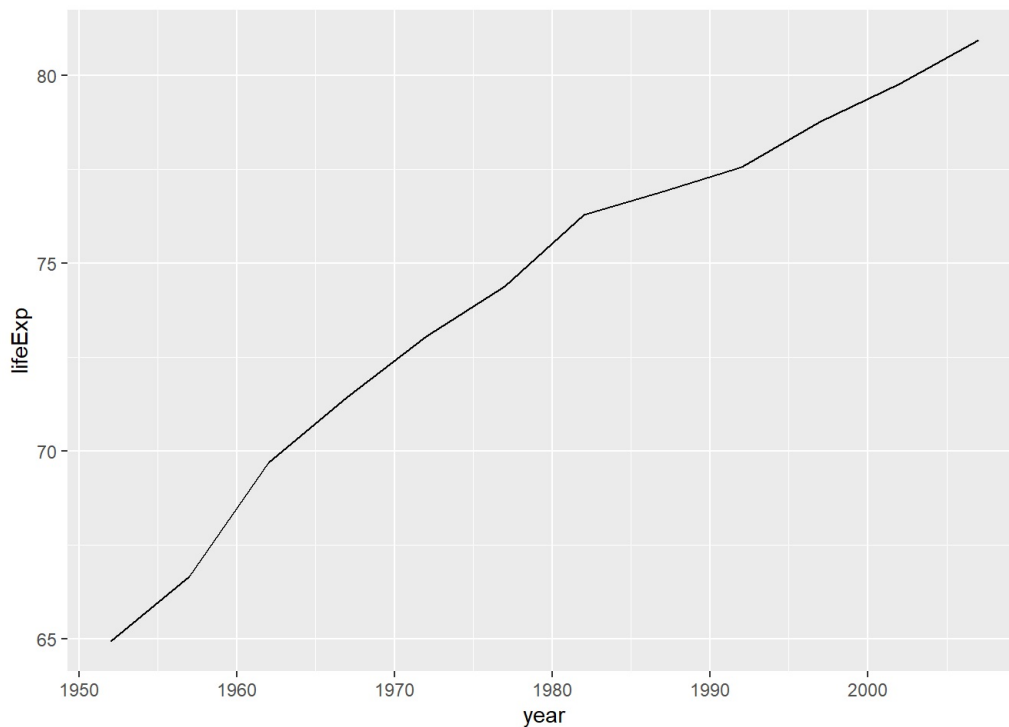
```
data("gapminder")
```

Filtrando ESPAÑA

```
gapminderES = gapminder [gapminder$country == "Spain" ,]
```

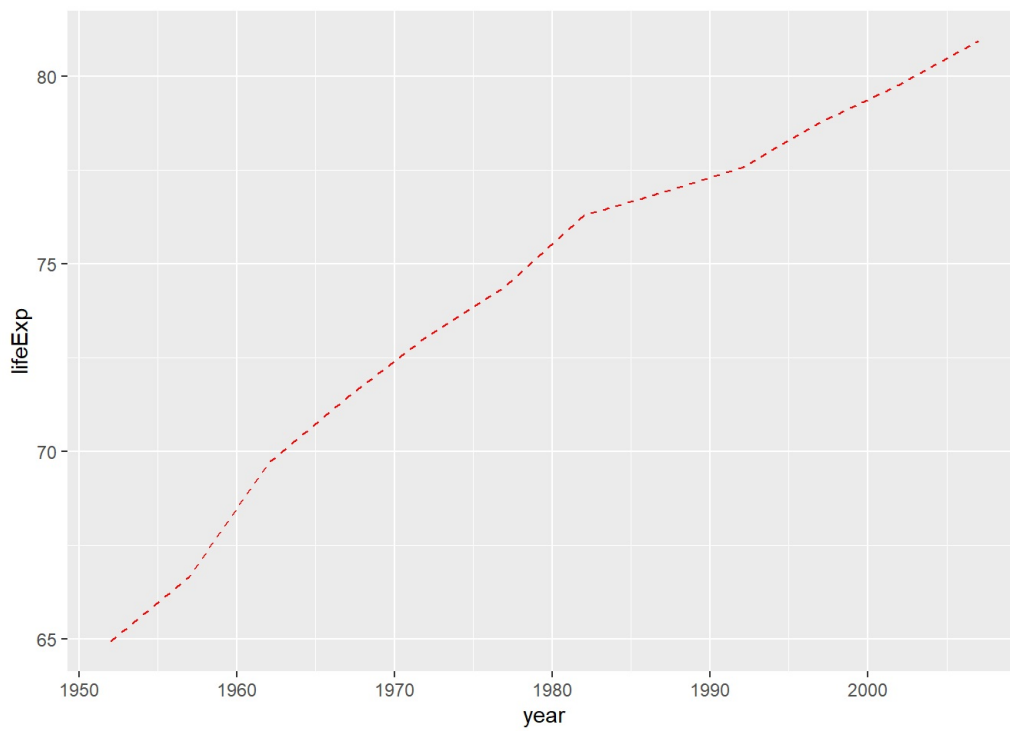
Como hacer grafica de linea con ggplot2

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



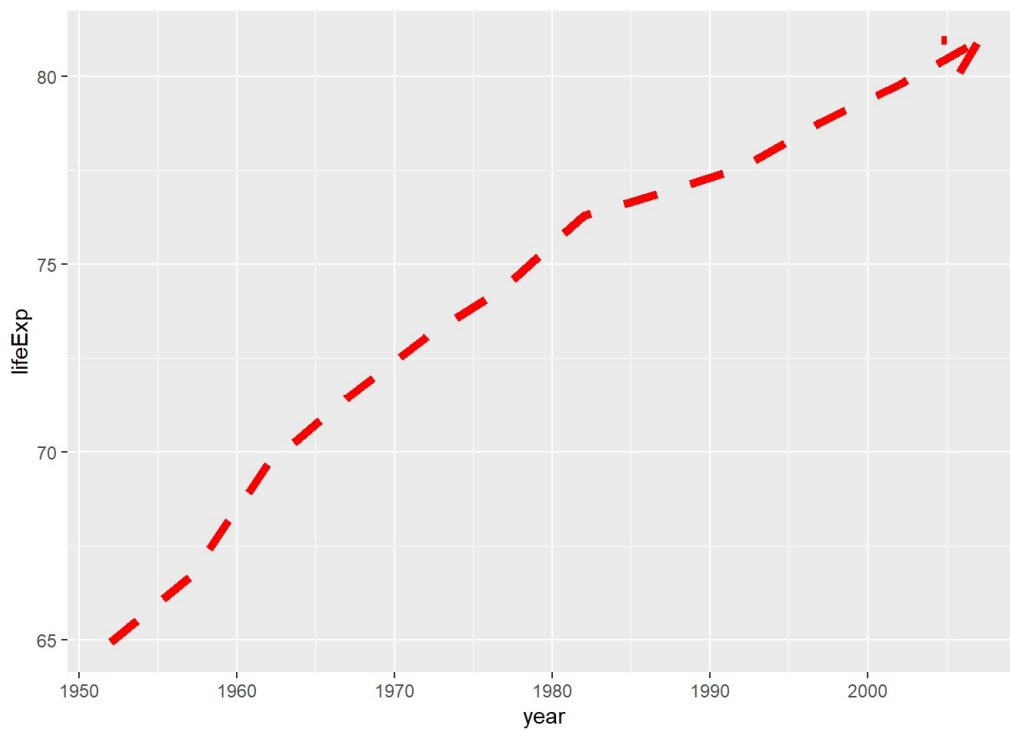
Como modificar tipo de linea y color

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



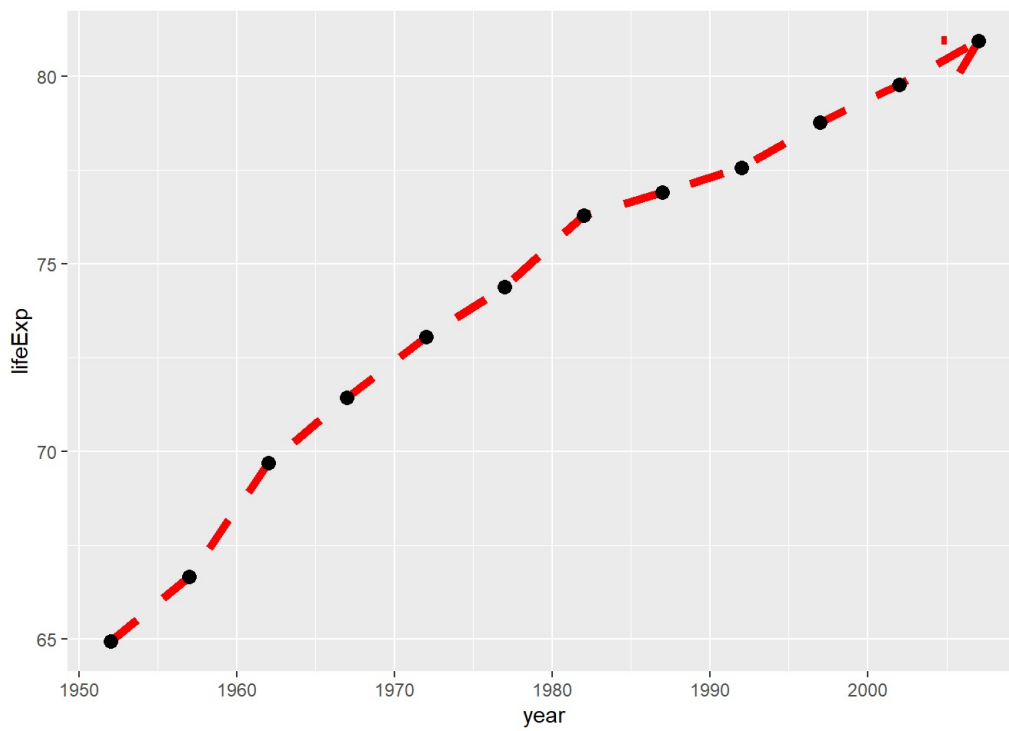
Como modificar tamaño y hacer flecha

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



Como agregar puntos

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



Gapminder paises de habla hispana

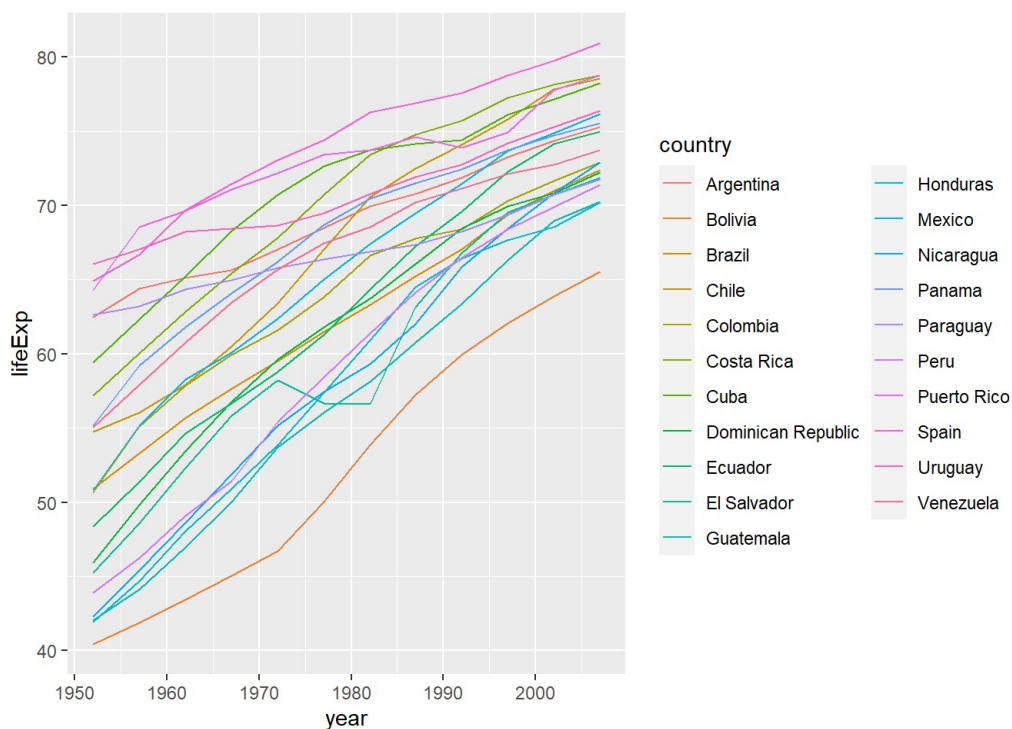
```
hispan_vec = c(
  'Argentina', 'Brazil', 'Bolivia', 'Chile', 'Colombia',
  'Costa Rica', 'Cuba', 'Dominican Republic',
  'Ecuador', 'El Salvador', 'Guatemala', 'Honduras',
  'Mexico', 'Nicaragua', 'Panama', 'Paraguay',
  'Peru', 'Uruguay',
  'Spain', 'Puerto Rico',
  'Venezuela' )
```

Crear un objeto df

```
gapminder_hisp = gapminder[gapminder$country %in% hispan_vec,]
```

Probando diferentes aesthetics

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



Exportar dataframe

```
write.csv(gapminder_hisp, file = "gapminder_hisp.csv")
```