

# gganimate lab 43

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LABORATORIO - Graficas animadas con ggplot2

Objetivo: hacer graficas animadas con ggplot2

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En este ejercicio vamos a:

1. grafica basica
2. animando grafica
3. mejorando animacion

cargando libreria tidyverse

```
#library(tidyverse) # instalando paquete para animar #install.packages('gganimate')
```

```
library(ggplot2)
library(gganimate)
```

```
#install.packages('gifski')
```

```
library(gifski)
```

```
#install.packages("magrittr")
```

```
library(magrittr)
library(dplyr)
```

```
##
## Attaching package: 'dplyr'
```

```
## The following objects are masked from 'package:stats':
##
## filter, lag
```

```
## The following objects are masked from 'package:base':
##
## intersect, setdiff, setequal, union
```

instalando paquete con los datos

install.packages("gapminder")

cargando paquete con los datos

```
library(gapminder)
```

cargando datos a entorno

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

## cargando datos a entorno

```
head(gapminder)
```

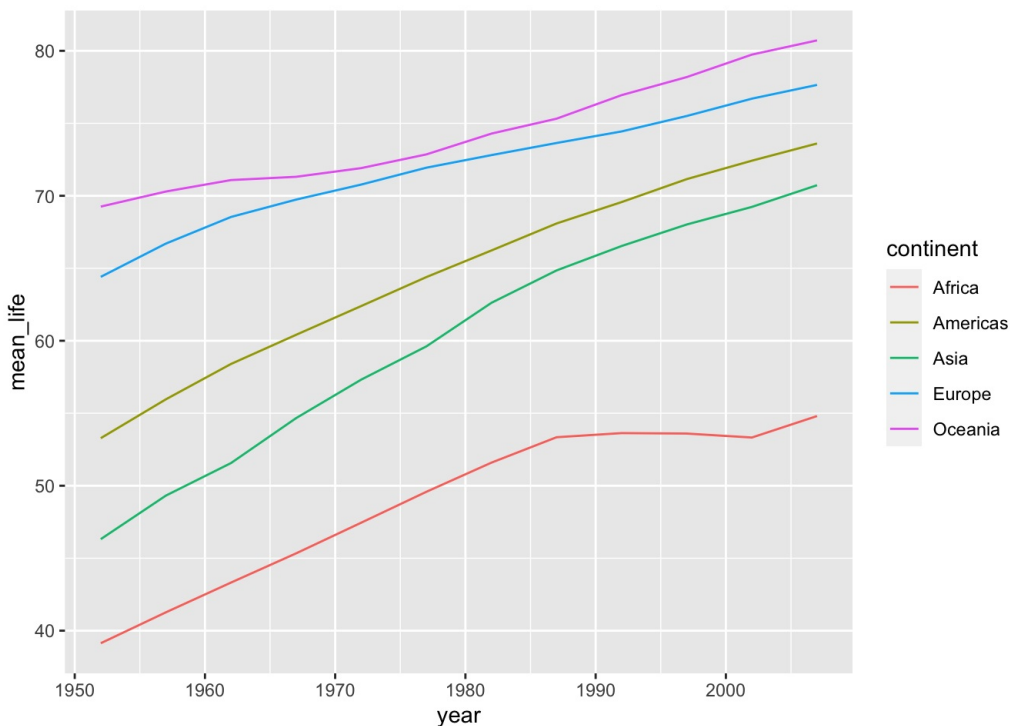
```
## # A tibble: 6 × 6
##   country    continent  year lifeExp      pop gdpPercap
##   <fct>      <fct>    <int>  <dbl>    <int>    <dbl>
## 1 Afghanistan Asia      1952   28.8  8425333  779.
## 2 Afghanistan Asia      1957   30.3  9240934  821.
## 3 Afghanistan Asia      1962   32.0 10267083  853.
## 4 Afghanistan Asia      1967   34.0 11537966  836.
## 5 Afghanistan Asia      1972   36.1 13079460  740.
## 6 Afghanistan Asia      1977   38.4 14880372  786.
```

## 1. grafica básica

```
g_animada <- gapminder %>%
  group_by(year, continent) %>%
  summarize (mean_life = mean(lifeExp)) %>%
  ggplot(aes(x = year,
             y = mean_life,
             color = continent)) +
  geom_line()
```

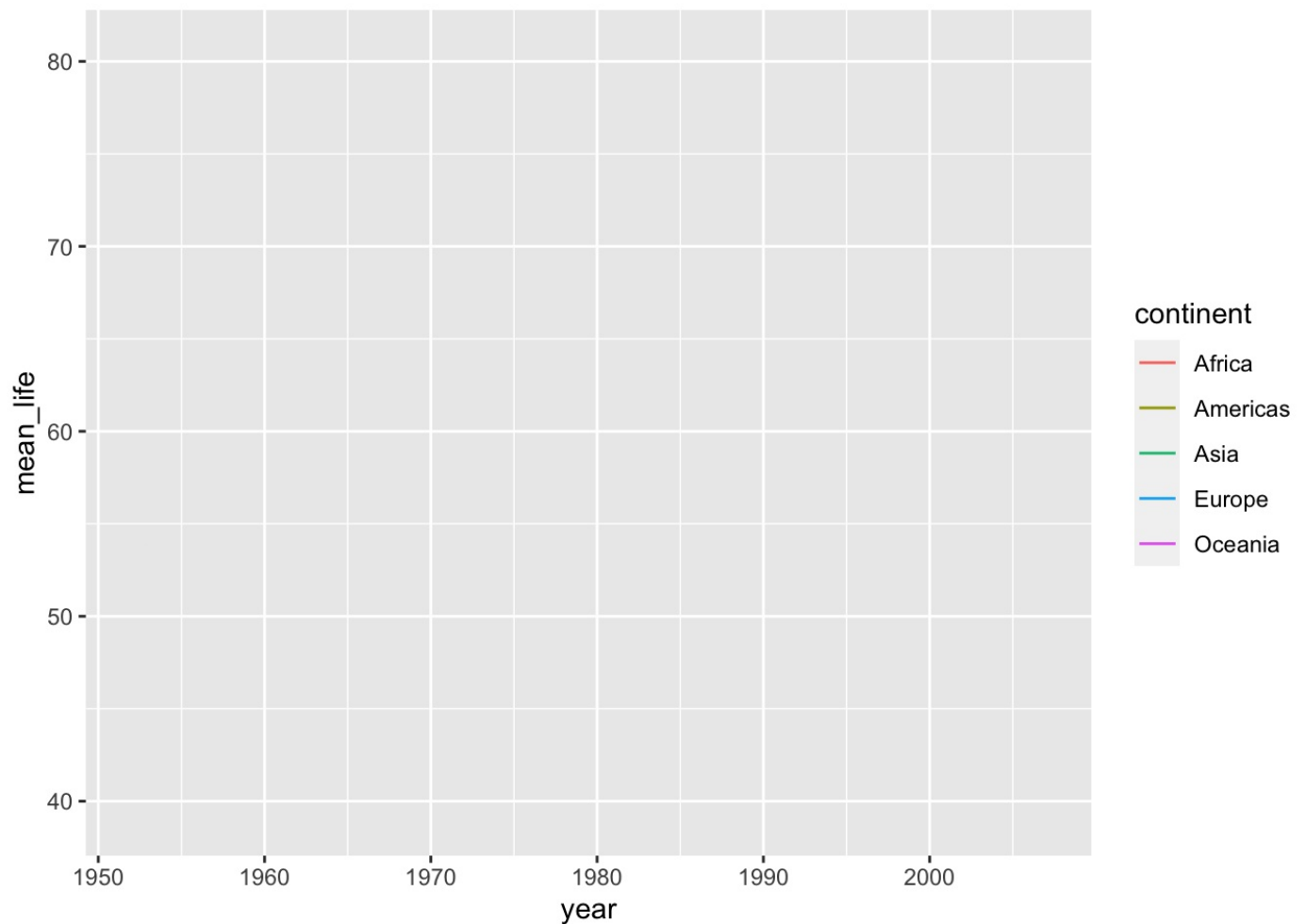
```
## `summarise()` has grouped output by 'year'. You can override using the `.groups` argument.
```

```
g_animada
```



## 2. animando grafica

```
g_animada + transition_reveal(year)
```



### 3. mejorando animacion

```
gapminder %>%
  group_by(year, continent) %>%
  summarize (mean_life = mean(lifeExp)) %>%
  ggplot(aes (x = year,
              y = mean_life,
              color = continent)) +
  geom_line(size = 2) +
  geom_point(size = 4) +
  labs (tittle = "Esperanza de Vida en {frame_along}" ,
        x = "Fecha" ,
        y = "Años de vida") +
  theme_minimal () +
  transition_reveal(year)
```

## `summarise()` has grouped output by 'year'. You can override using the `.groups` argument.

