

LAB 43 (MD)

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LABORATORIO - Graficas animadas con ggplot2

Objetivo: hacer graficas animadas con ggplot2

En este ejercicio vamos a:

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

Cargando libreria tidyverse

```
library(tidyverse)
```

```
## -- Attaching packages ----- tidyverse 1.3.1 --
```

```
## v ggplot2 3.3.3      v purrr   0.3.4  
## v tibble  3.1.4      v dplyr   1.0.7  
## v tidyr   1.1.3      v stringr 1.4.0  
## v readr   1.4.0      v forcats 0.5.1
```

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

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

```
## -- Conflicts ----- tidyverse_conflicts() --  
## x dplyr::filter() masks stats::filter()  
## x dplyr::lag()     masks stats::lag()
```

Instalando paquete para animar

```
install.packages('gganimate')
```

```
library(gganimate)
```

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

```
library(gifski)
```

Instalando paquete con los datos

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

Cargando paquete con los datos

```
library(gapminder)
```

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

Cargando datos a entorno

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

Cargando datos a entorno

```
head(gapminder)
```

```
## # A tibble: 6 x 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.
```

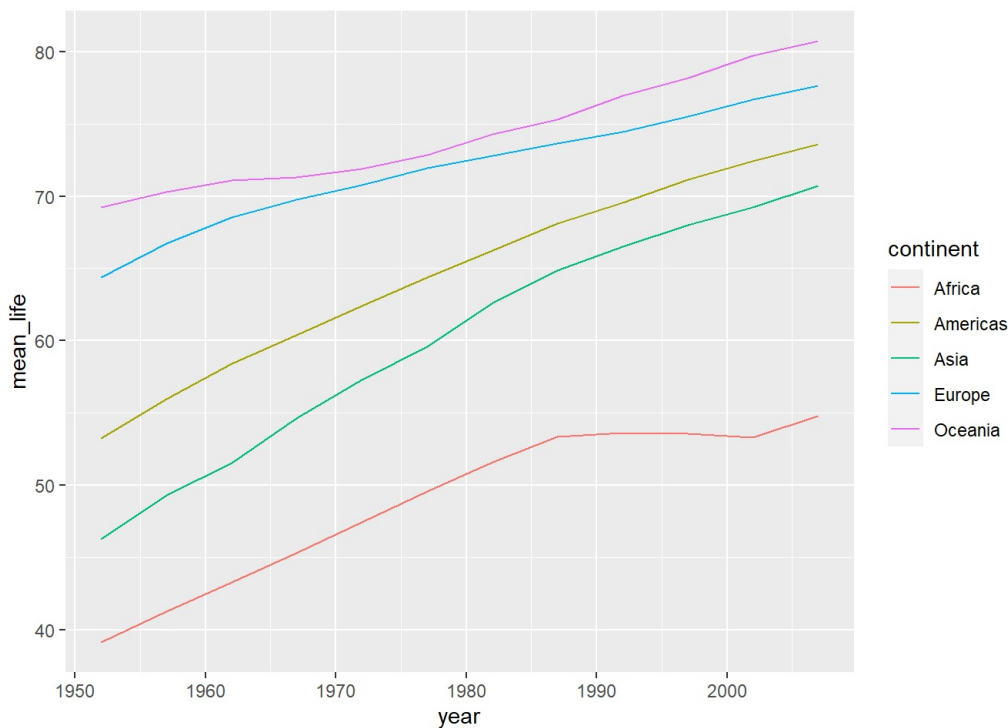
1. grafica basica

```
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.

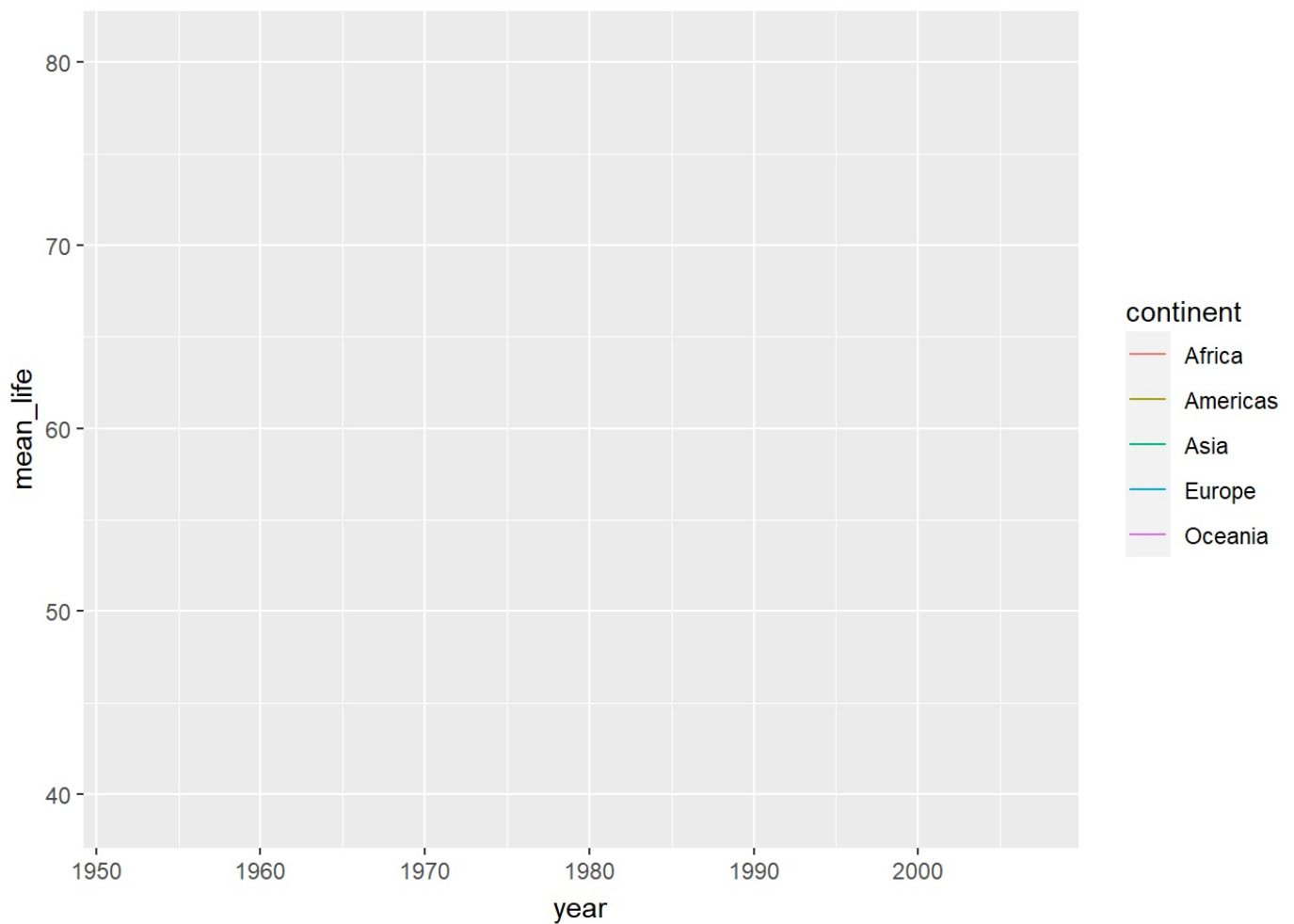
Ver grafica

```
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.

