

Estadística Aplicada y Procesamiento de Datos con R

Código en: 

Clase 5. Ggplot e Introducción a RMarkdown y Quarto

23 de agosto, 2023

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Introducción

- GGPLET:
 - Gramática de los gráficos por capas (<http://vita.had.co.nz/papers/layered-grammar.pdf>)
 - Permite seguir los pasos y los distintos componentes del gráfico
 - Permite una fácil forma de iteración para distintos gráficos

**Torpedo sobre ggplot*

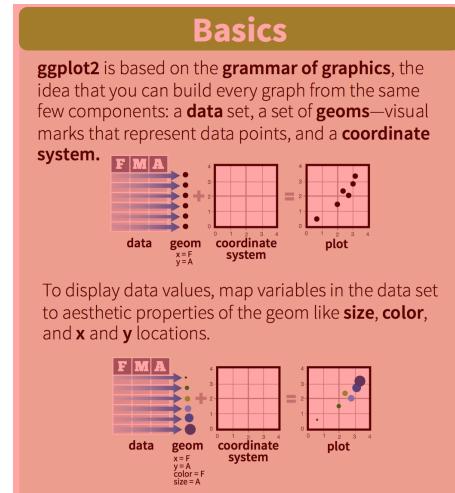
Elementos

Gramática	Explicación
Datos	Base de datos a graficar
Geométrica	Forma geométrica que representará los datos (e.g., diagrama de cajas y puntos, histogramas)
Estética	La estética del objeto geométrico (e.g., color, tamaño, forma)

Traducción del github de @oliviergimenez

- Signo +
- `geom_point()` es un gráfico de puntos, `geom_line()` es un gráfico de líneas, `geom_col()` es un gráfico de columnas o barras, etc.
- `aes()` dinámico/variable
- Algunos argumentos son `color` (colores líneas o puntos), `fill`(rellenar el área), `linetype` para ver el tipo de línea (discontinua, continua, con puntos),`pch` estilo de puntos (forma), `size` tamaño o grueso de las líneas y `alpha` que es la opacidad (transparencia, de 1 a 0)

Elementos (2)



Aplicación

Estructura hipotética

Añadimos

Añadimos una etiqueta para el eje x y un formato

Añadimos un tema y la ubicación de leyenda

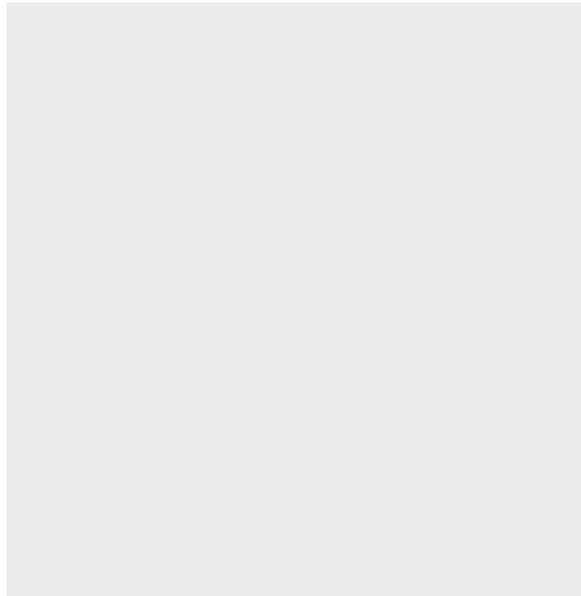
Se dividen los gráficos por región

- Generamos los datos

► código

- Hacemos un código en que definimos que faremos un gráfico desde la base de datos `covid19_chile_coq_val`.

```
library(ggplot2)
covid19_chile_coq_val %>%
ggplot()
```



Aplicación

Estructura hipotética

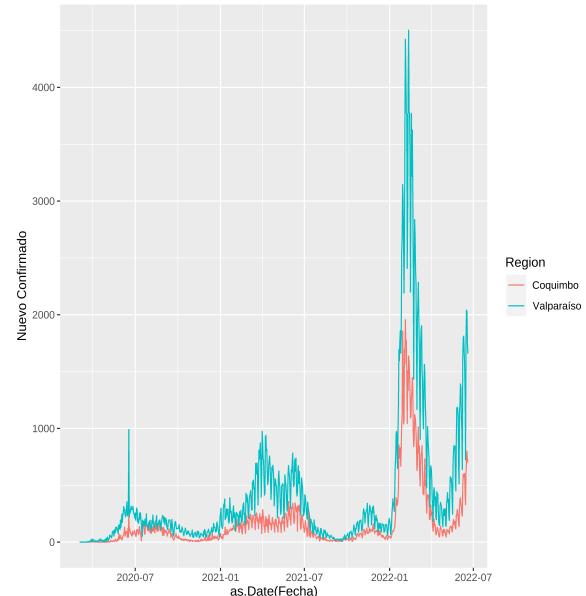
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```
covid19_chile_coq_val %>%
ggplot()+
  geom_line(aes(x=as.Date(Fecha), y='Nuevo Confirmado', color=Region))
```



Aplicación

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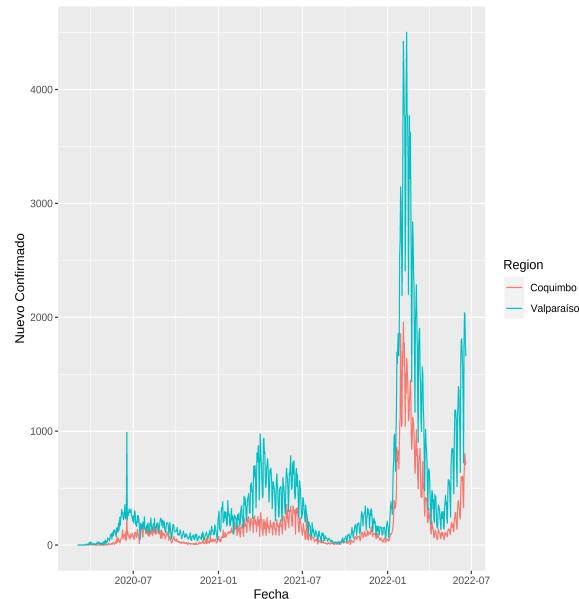
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```
covid19_chile_coq_val %>%
  ggplot()+
    geom_line(aes(x=as.Date(Fecha), y='Nuevo Confirmado', color=Region))+
    scale_x_date()+
    xlab("Fecha")
```



Aplicación

Estructura hipotética

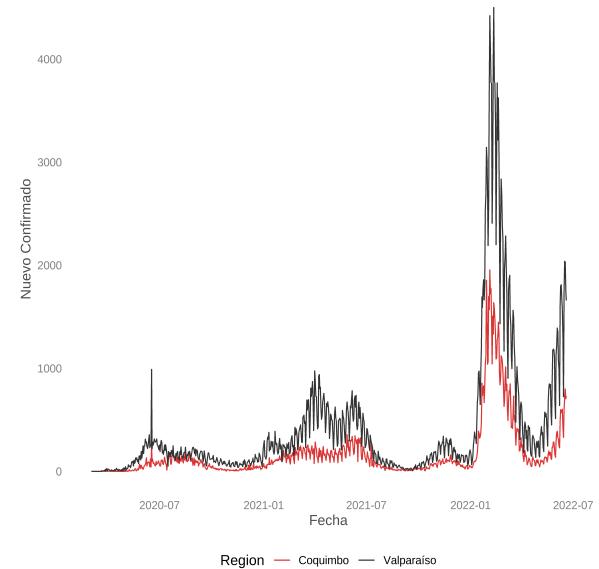
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Se dividen los gráficos por región

```
library(sjPlot)
covid19_chile_coq_val %>%
ggplot()+
  geom_line(aes(x=as.Date(Fecha), y=`Nuevo Confirmado`, color=Region))+
  scale_x_date()+
  xlab("Fecha")+
  sjPlot::theme_blank()+
  theme(legend.position="bottom")+
  scale_color_manual(values=c("#DD3333","#333333"))
```



Aplicación

Estructura hipotética

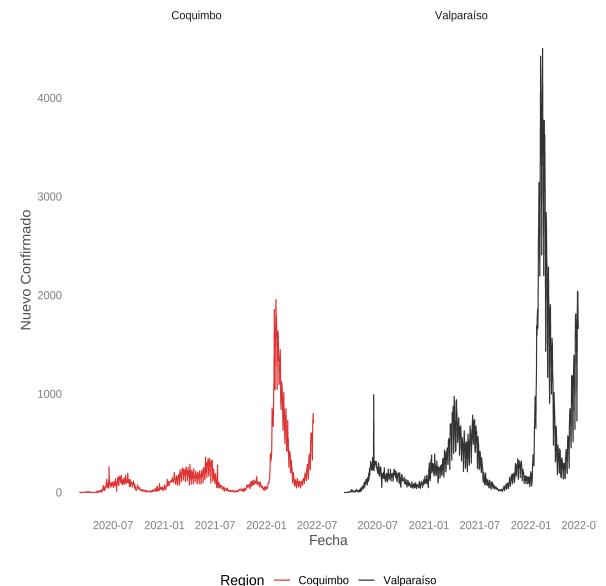
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covid19_chile_coq_val %>%
ggplot()+
  geom_line(aes(x=as.Date(Fecha), y=`Nuevo Confirmado`, color=Region))+  
  scale_x_date()+
  xlab("Fecha")+
  sjPlot::theme_blank()+
  theme(legend.position="bottom")+
  scale_color_manual(values=c("#DD3333","#333333"))+
  facet_wrap(~Region)
```



```
#guardamos los datos
ggplot2::ggsave("~/figs/1.png", width = 5, height = 10, dpi = 100)
```

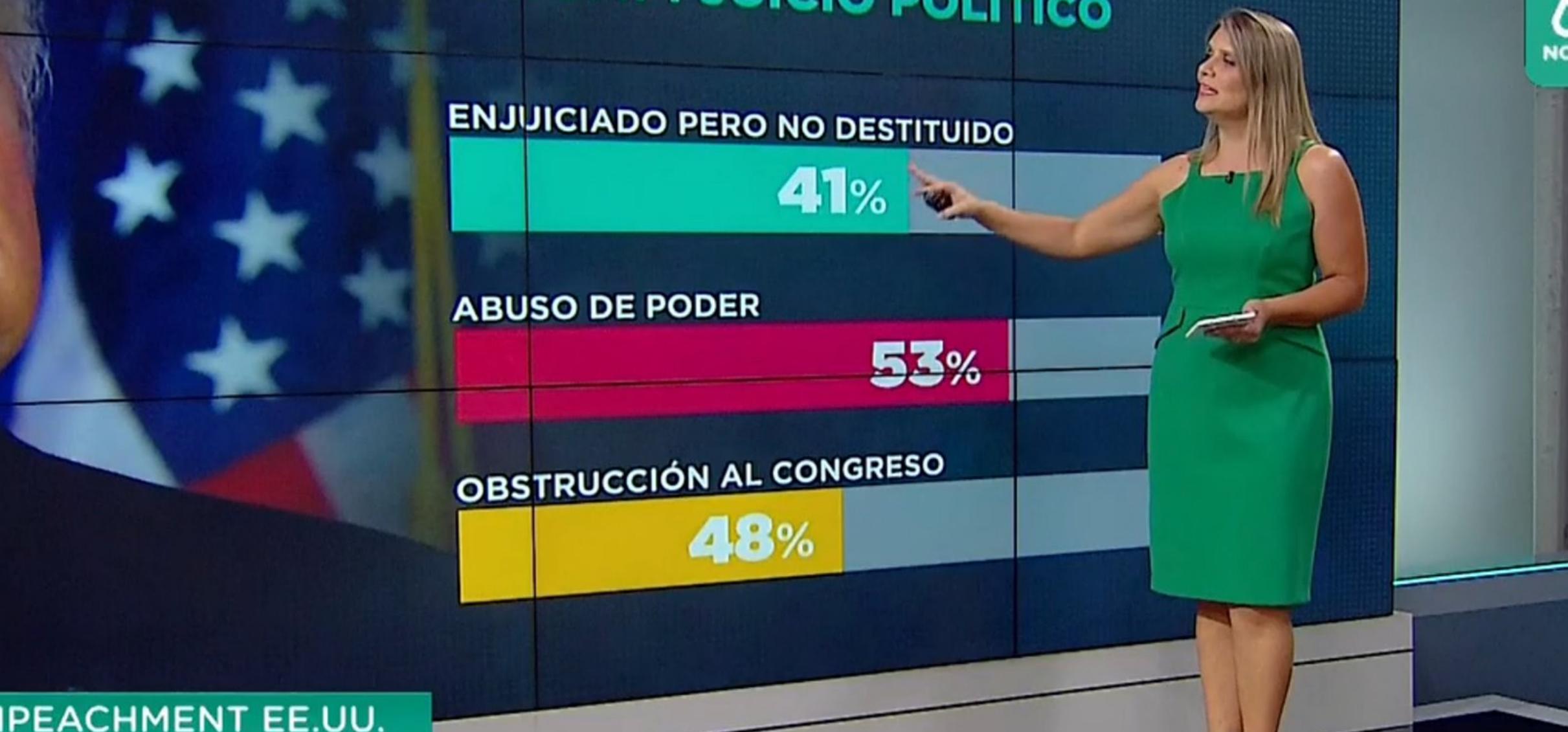
Observaciones

- Autoexplicativo
- Los gráficos pueden estar sujetos a sesgos (cc. o icc.)
- Es necesario explicitar cómo se construyó el gráfico
- Misma escala
- Orden de los datos
- Citar fuentes (con caption)

Ejemplos:

- Datos Victimización
- Datos ENUSC
- Datos CASEN
- Desafíos gobierno
- Tasa de positividad
- Días sandwich
- Gráfico ritmo vacunación
- Aprobación presidencial





IMPEACHMENT EE.UU.

REPORTE PARA APROBAR JUICIO CONTRA TRUMP

Aplicación (2)

Estructura hipotética

Usamos la base, la transformamos y hacemos un gráfico de barra

Añadimos una temática con una escala de colores

Se definen etiquetas y se gira el gráfico de barras, se pone el gráfico en mínimo

```
library(jsonlite)
history1 = fromJSON("_data/StreamingHistory0.json", flatten = TRUE)
history2 = fromJSON("_data/StreamingHistory1.json", flatten = TRUE)
st = rbind(history1, history2)
rm(history1, history2)
# what does the dataframe contain.
head(st) %>%
knitr::kable("markdown")
```

endTime	artistName	trackName	msPlayed
2021-03-23 12:20	FREE SOLO	FREE SOLO - Chalas en Paris	2247988
2021-04-07 00:05	The Shapeshifters	Back To Basics	327280
2021-04-07 00:11	Fish Go Deep	The Cure & The Cause - Dr Packer Extended Remix	377121
2021-04-07 00:19	Pete Heller's Big Love	Big Love - Dr Packer Extended Remix	469124
2021-04-07 00:25	The Shapeshifters	Lola's Theme Recut - Dr Packer Remix	393015
2021-04-07 00:33	ATFC	Sleep Talk (feat. Lisa Millett) - Dr Packer Extended Remix	452070

Aplicación (2)

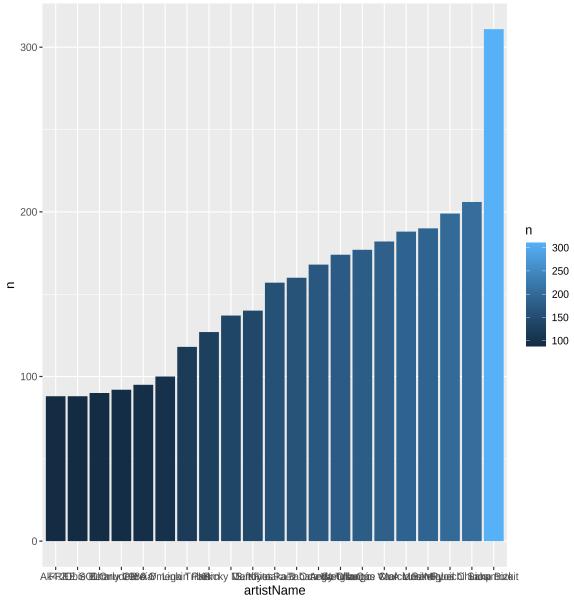
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```
st %>%
  dplyr::count(artistName, sort = TRUE) %>%
  dplyr::top_n(20) %>%
  dplyr::mutate(artistName = reorder(artistName, n)) %>%
  ggplot(aes(x = artistName, y = n)) +
  geom_bar(aes(fill=n),
           stat="identity")
```



Aplicación (2)

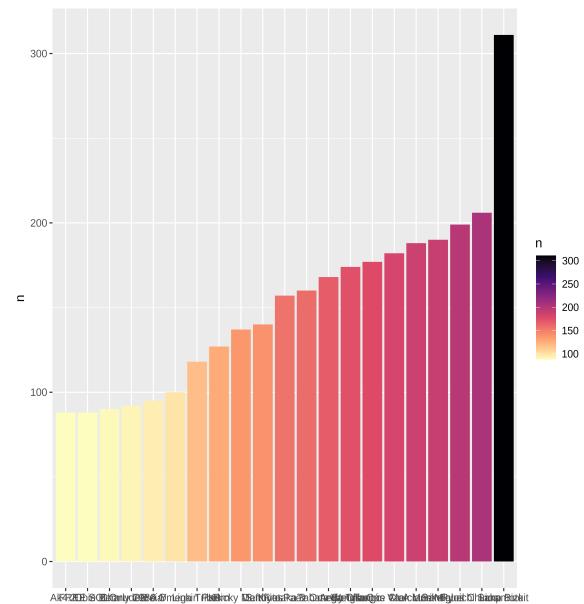
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  dplyr::mutate(artistName = reorder(artistName, n)) %>%  
  ggplot(aes(x = artistName, y = n)) +  
  geom_bar(aes(fill = n),  
           stat = "identity") +  
  scale_fill_viridis_c(option = "magma", direction = -1) +  
  xlab(NULL)
```



Aplicación (2)

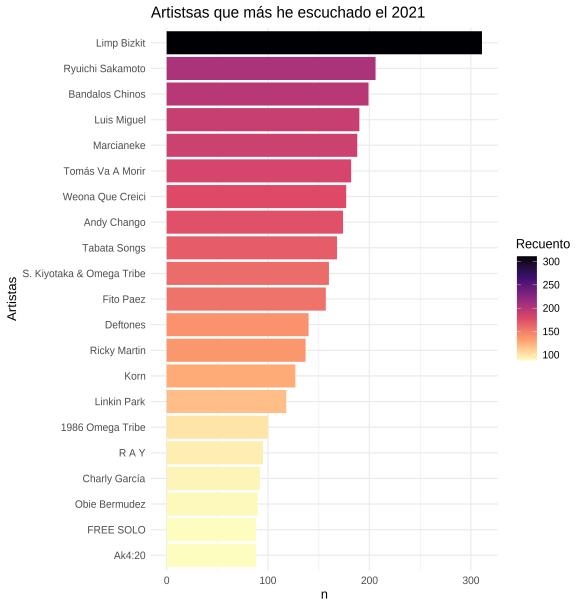
Estructura hipotética

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Añadimos una temática con una escala de colores

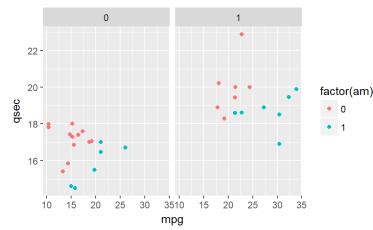
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  ggplot(aes(x = artistName, y = n)) +
  geom_bar(aes(fill=n),
           stat="identity") +
  scale_fill_viridis_c(option = "magma", direction = -1) +
  xlab(NULL) +
  coord_flip() +
  labs(x = "Artistas",
       title = "Artistasas que más he escuchado el 2021",
       fill = "Recuento") +
  theme_minimal()
```



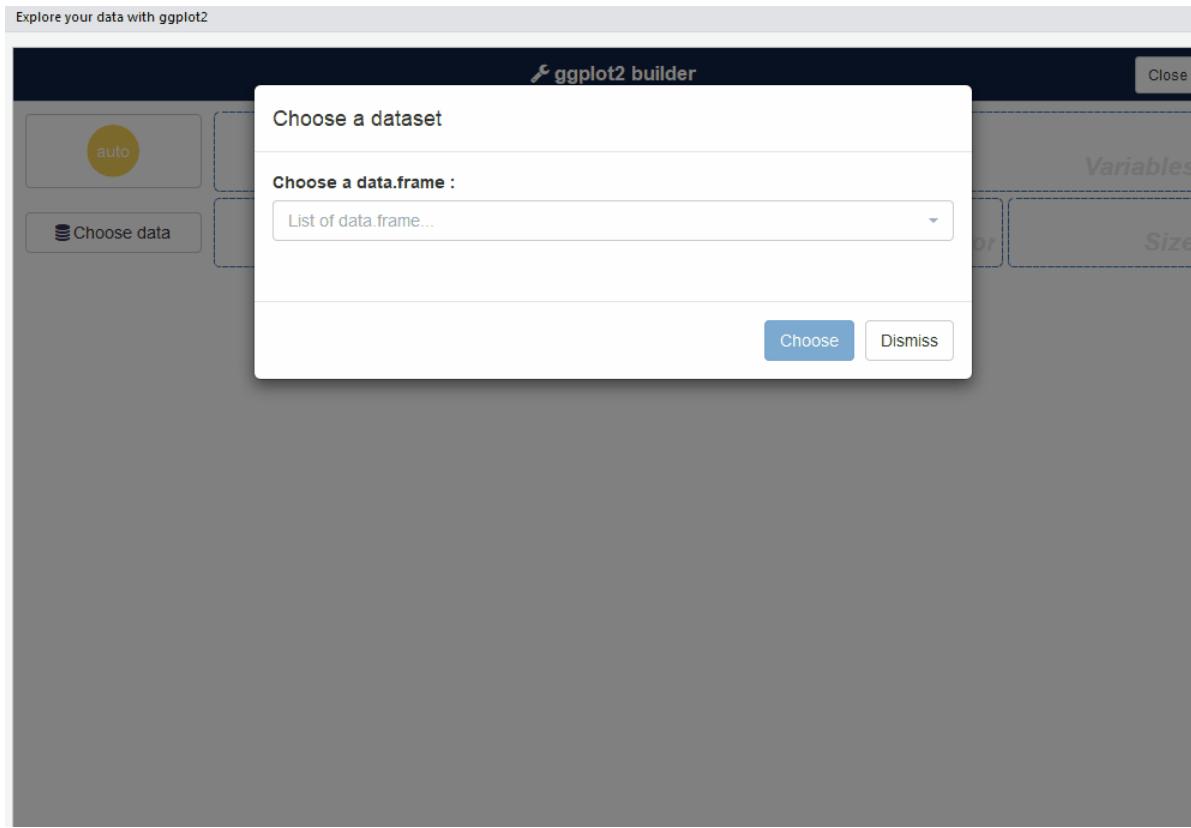
Ejercicio 1

- Con los siguientes datos ([mtcars](#)), llegue al siguiente gráfico:



Otros paquetes relacionados

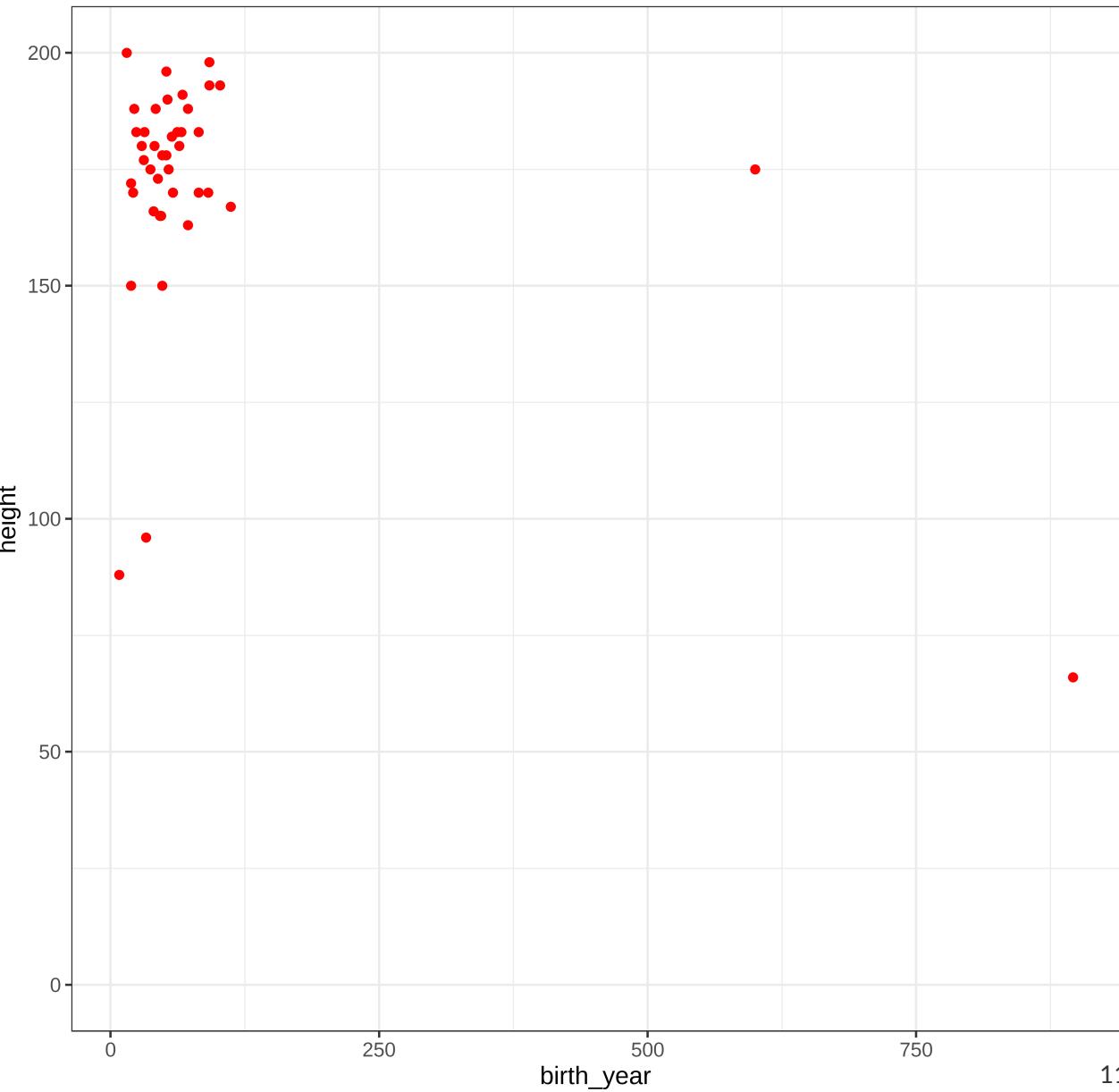
- ggstatsplot
- gganimate
- ggplotly
- ggviz
- esquise



```
starwars %>%  
  ggplot2::ggplot() +  
  geom_point(aes(x = birth_year,  
                 y = height), color = "red") +  
  scale_y_continuous(limits = c(0, 200)) +  
  labs(title = "Un ggplot") +  
  theme_bw()
```

Warning: Removed 46 rows containing missing values ('geom_point()').

Un ggplot



Ejercicio 2

- Genere el gráfico que corresponda para analizar la distribución de los datos presentados más abajo. De acuerdo a las lecturas y fuentes que corresponda (busque en internet), indique su distribución.
- `set.seed(2125);datos<-runif(100,50,500)`
- Use la base **ChickWeight** y haga un diagrama de puntos entre el tiempo y el peso. Grafique la dispersión de los puntos y añada una línea suavizada (**smooth**) para ver si hay alguna tendencia. Añada etiquetas y un tema en blanco y negro.

Ejercicio 3

- Use `ggplot()` y especifique la base de datos `gapminder` como input, pero habiendo filtrado sólo los datos del 2007. (Debe instalar la librería `gapminder` antes de cargar los datos).
- Agregue la capa `geom_point` al gráfico y cree un diagrama de puntos (`scatterplot`) mostrando el producto interno bruto per-capita `gdpPercap` en el eje x y la esperanza de vida `lifeExp` en el eje y.
- Use la estética color para indicar cada continente con un color diferente
- Use la estética de tamaño para ajustar el tamaño de los puntos según el tamaño de la población
- Use `scale_size_area()` para que el tamaño de los puntos refleje las diferencias de la población actual y configure el tamaño máximo de los puntos (`max_size`) de cada punto a 15.
- Determine el nivel de opacidad/transparencia de cada punto a 70% mediante el parámetro `alpha` (no debe ser visible en las leyendas).

(Quartango Blog, 2020, Julio 28, <https://www.r-bloggers.com/2020/07/specify-additional-aesthetics-for-points/>)

Ejercicio 4

- Cargue una base de datos del Bono Bodas de Oro correspondiente a Enero 2021 [aquí](#)
- Tip: Lea el contenido, información, diccionario de datos, etc.
- Seleccione la región 13
- Genere un histograma del total de beneficiados (**Total N°**), que contenga 10 quiebres.
- Genere un gráfico de barras con la frecuencia de los distintos niveles educacionales

Rmarkdown y Quarto

\$Fuente: Prof.\,Matias\,Placencio-Castro\,(placenci@bc.edu)\$

- **Markdown:** Lenguaje de marcado ligero para formatear texto.
- Creador: John Gruber, 2004
- Uno de los lenguajes de formateo más populares.
- **Rmarkdown:** Extensión de Markdown para integrar código R y otros lenguajes.
- Usos:
 - Comunicar resultados para toma de decisiones.
 - Colaboración en investigaciones, incluyendo pasos seguidos.
 - Ambiente de trabajo moderno que captura procesos y flujo de trabajo
- **Quarto:** Extensión avanzada de Markdown.
- Integración fácil con Python y otros lenguajes.
- Mejora en el procesamiento de Markdown en "trabajos".



Ventajas y desventajas

- Todo en un mismo lugar
- Automatiza
- Facilita colaboración (claridad en pasos, rastreables, etc.)
- Difícil lectura (mucho código)
- No es tan rápido manejarlo
- Difícil aprender al principio

Apuntes

- Apuntes Quarto
- Apuntes Rmarkdown

Estructura (1): YAML

```
---
```

```
title: "Untitled"
author: "ags"
date: '2023-08-15'
output: html_document
---
```

- Quarto

```
---
```

```
title: "Untitled"
format: html
editor: visual
---
```

- PDF

```
---
```

```
title: "Untitled"
author: "ags"
date: '2023-08-15'
output: pdf_document
---
```

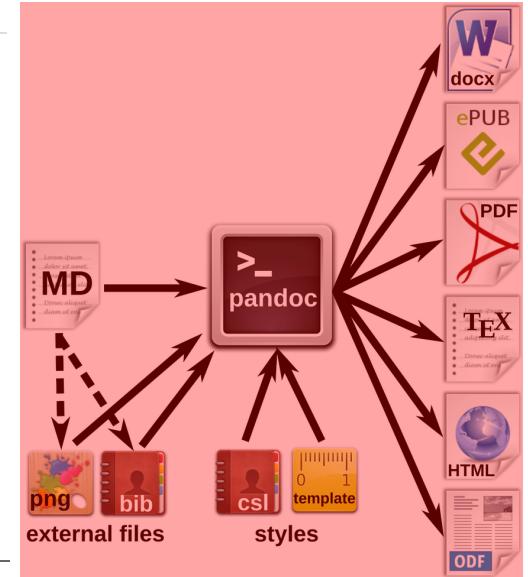
- PDF (xelatex)

```
---
```

```
title: "Untitled"
author: "ags"
date: '2023-08-15'
output:
  pdf_document:
    latex_engine: xelatex
---
```

Estructura (2): Chunks

Argumento	Ejemplo (por defecto)	Función
eval	eval=TRUE	El código corre y los resultados se incluyen en la salida.
include	include=TRUE	¿Se incluye el código y el resultado en la salida?
echo	echo=TRUE	¿Se despliega el código junto con los resultados?
warning	warning=TRUE	¿Se despliegan los mensajes de advertencia?
error	error=FALSE	¿Se despliegan los errores? ¿sigue la compilación si hay errores?
message	message=TRUE	¿Se despliegan los mensajes?
tidy	tidy=FALSE	¿Se formatea el código para que parezca "limpio"?
results	results="markup"	"Cómo se ven los resultados? ""hide"" = sin resultados ""asis"" = resultados sin formato ""hold"" = se compilan los resultados al final del chunk (usar si hay muchos comandos)"
cache	cache=FALSE	¿Se guarda en el cache para compilaciones futuras?
comment	comment="##"	¿Cuál es el signo en que los caracteres no se evalúan?
fig.width, fig.height	fig.width=7	¿Cuál es el ancho y largo (en pies) de la figura?
fig.cap	fig.cap=""	Título de la figura
fig.align	fig.align="left"	Ubicación de la imagen: (izquierda) "left" (derecha) "right" (centro) "center"



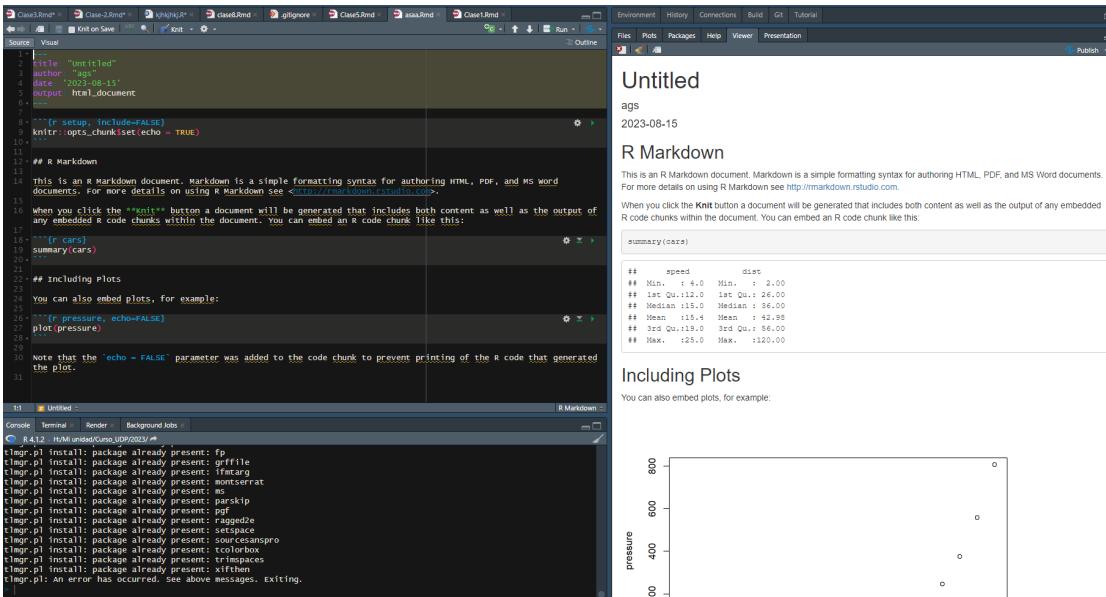
Fuente: <https://ourcodingclub.github.io/tutorials/rmarkdown/>

Nota: En quarto, los argumentos de cada chunk se presentan en formato #! debajo de cada chunk

Ejemplos

```
```{r, "rmarkdown-output", echo = F, eval=TRUE, out.width = '50%', fig.align = 'center', fig.cap="Ejemplo markdown"}  
url<- '/_figs/rmarkdown.PNG'
knitr::include_graphics(url)
```
```

Salida:



Ejemplo markdown

- La media de 5 números es 18. Si uno es excluido, la media es 16. ¿Cuál es el número excluido?

```
$$  
\frac{(a + b + c + d + x)}{5}=18  
$$  
  
$$  
\frac{(a + b + c + d)}{4}=16  
$$  
$$  
x= 20
```

Ejemplos (2)

Necesario para hacer la interfaz con Python:

```
if(!require(reticulate)){install.packages("reticulate")}
```

```
```{python, "ejercicio-python", echo = F}
import numpy as np
np.random.seed(42)
data = np.random.randn(100)
mean_data = np.mean(data)
mean_data
```
```{r, "ejercicio-r", echo = F}
set.seed(42)
r_data <- rnorm(100)
mean_r_data <- mean(r_data)
mean_r_data
```

```

Salida:

```
## -0.10384651739409384
## [1] 0.03251482
```

Ejercicio 5

Despliegue el siguiente ejercicio en un markdown en formato .html

- De algunas de las base de datos de permisos de circulación pagados y tramitados en la Municipalidad de Cochamó el 2016 (<https://datos.gob.cl/dataset/permisoscirculacion2016cochamo>),
 - Obtenga el porcentaje por columna, según corresponda al tipo de variable y nivel de medición.
 - Obtenga la media y la mediana, según corresponda al tipo de variable y nivel de medición.
 - **EXTRA:** Obtenga una tabla de 2 vías, según corresponda al tipo de variable y nivel de medición.

Gracias!

Contacto: CANVAS

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Fuentes

- Ballari, D. (2018). Funcion ggplot() de ggplot2. <https://rpubs.com/daniballari/ggplot>
- Close, G. (2022). Technical Writing and Publishing Data-Rich Articles with Quarto. Unpublished. <https://doi.org/10.13140/RG.2.2.14862.43846/1>
- Dogucu, M., & Çetinkaya-Rundel, M. (2022). Tools and Recommendations for Reproducible Teaching. In Journal of Statistics and Data Science Education (Vol. 30, Issue 3, pp. 251–260). Informa UK Limited. <https://doi.org/10.1080/26939169.2022.2138645>
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- Patil, I. (2021). Visualizations with statistical details: The 'ggstatsplot' approach. Journal of Open Source Software, 6(61), 3167, doi:10.21105/joss.03167
- Plavskin, E. (2019, November 12). Intro to ggplot. <https://learn.genome.bio.nyu.edu/intro-to-ggplot/>
- Wickham, H. (2010) A Layered Grammar of Graphics, Journal of Computational and Graphical Statistics, 19:1, 3-28, DOI: 10.1198/jcgs.2009.07098

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