

# Rstudio

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# R is (also) a programming language

```
Terminal
File Edit View Terminal Tabs Help
bash-3.2$ R

R version 2.11.1 (2010-05-31)
Copyright (C) 2010 The R Foundation for Statistical Computing
ISBN 3-900051-07-0

R is free software and comes with ABSOLUTELY NO WARRANTY.
You are welcome to redistribute it under certain conditions.
Type 'license()' or 'licence()' for distribution details.

R is a collaborative project with many contributors.
Type 'contributors()' for more information and
'citation()' on how to cite R or R packages in publications.

Type 'demo()' for some demos, 'help()' for on-line help, or
'help.start()' for an HTML browser interface to help.
Type 'q()' to quit R.

> █ A GNU package, source code for the R software environment is written primarily in C,
Fortran, and R itself and is freely available under the GNU General Public License.
Pre-compiled binary versions are provided for various operating systems. Although R
has a command line interface, there are several graphical user interfaces, such as
RStudio, an integrated development environment.
```

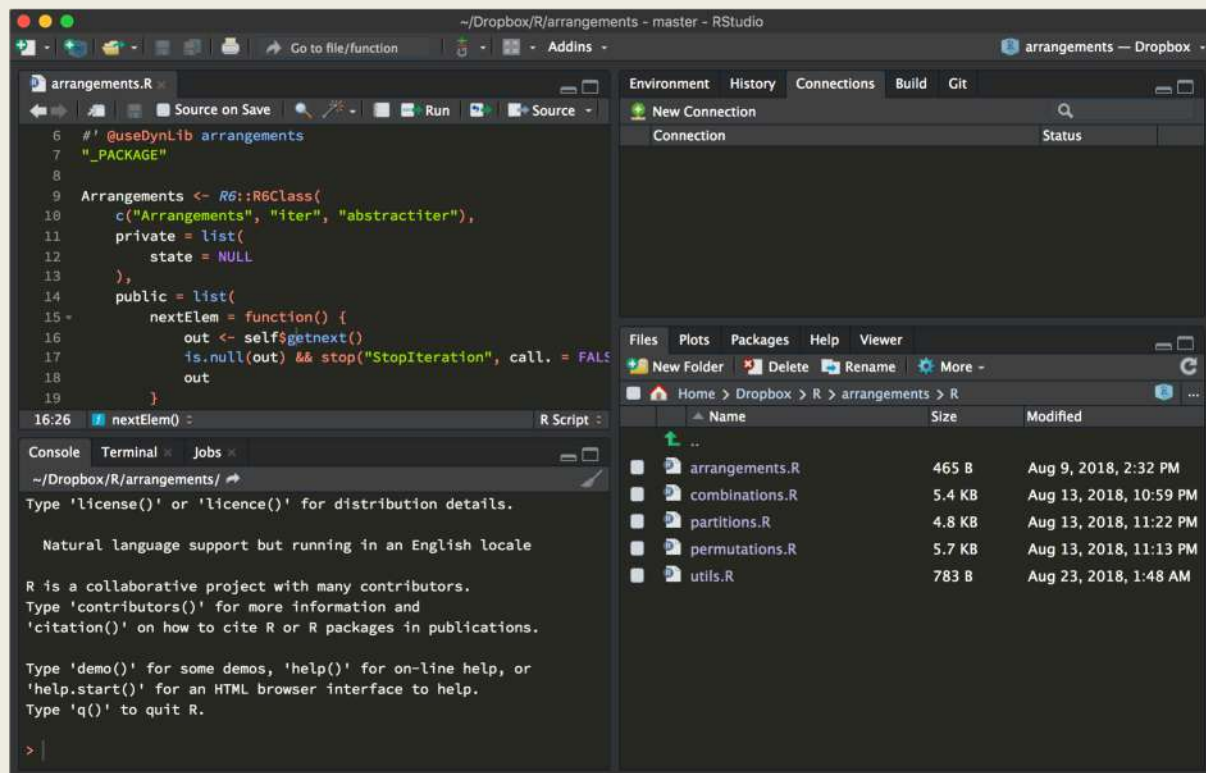
R is a programming language and free software environment for statistical computing and graphics supported by the R Foundation for Statistical Computing. The R language is widely used among statisticians and data miners for developing statistical software and data analysis. Polls, data mining surveys, and studies of scholarly literature databases show substantial increases in popularity; as of October 2019, R ranks 15th in the TIOBE index, a measure of popularity of programming languages.

Source: <https://www.r-project.org/>  
[https://en.wikipedia.org/wiki/R\\_\(programming\\_language\)](https://en.wikipedia.org/wiki/R_(programming_language))





RStudio is an integrated development environment (IDE) for R, a programming language for statistical computing and graphics. The RStudio IDE is developed by RStudio, Inc., a commercial enterprise founded by JJ Allaire, creator of the programming language ColdFusion.



RStudio, Inc. has no formal connection to the R Foundation, a not for profit organization located in Vienna Austria, which is responsible for overseeing development of the R environment for statistical computing.

RStudio is available in two formats: RStudio Desktop, where the program is run locally as a regular desktop application; and RStudio Server, which allows accessing RStudio using a web browser while it is running on a remote Linux server.

Source: <https://rstudio.com/> | <https://en.wikipedia.org/wiki/RStudio>  
<https://github.com/rstudio/>

D:/projects/blog/50balls - RStudio

File Edit Code View Plots Session Build Debug Profile Tools Help

Go to file/function Addins 50balls

Untitled1\* x

```
1 library(ggplot2)
2 theme_set(theme_classic())
3
4 # Plot
5 g <- ggplot(mpg, aes(cty))
6 g + geom_density(aes(fill=factor(cyl)), alpha=0.8) +
7   labs(title="Density plot",
8         subtitle="City Mileage Grouped by Number of cylinders",
9         caption="Source: mpg",
10        x="City Mileage",
11        fill="# Cylinders")
```

Code Editor

Environment History

Import Dataset

Global Environment

Values

g List of 9

Workspace & History

Files Plots Packages Help Viewer

Zoom Export

Density plot  
City Mileage Grouped by Number of cylinders

density

City Mileage

Source: mpg

# Cylinders

- 4
- 5
- 6
- 8

Plots and Files

Console D:/projects/blog/50balls/

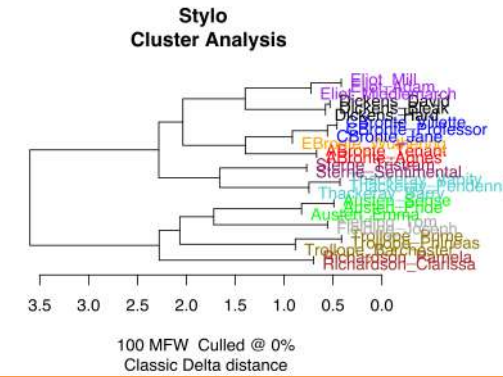
```
> library(ggplot2)
> theme_set(theme_classic())
>
> # Plot
> g <- ggplot(mpg, aes(cty))
> g + geom_density(aes(fill=factor(cyl)), alpha=0.8) +
+   labs(title="Density plot",
+         subtitle="City Mileage Grouped by Number of cylinders",
+         caption="Source: mpg",
+         x="City Mileage",
+         fill="# Cylinders")
> |
```

R console

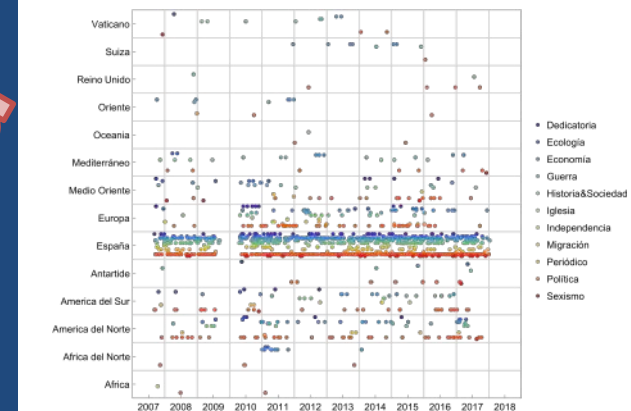
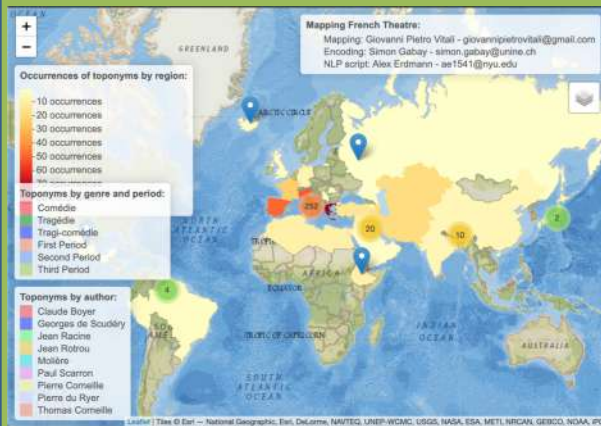


The image is a collage of four screenshots from a Mac desktop, each representing a different data science workflow. The top-left screenshot shows a file browser window titled "English\_Novels" containing various files like ".RData", ".Rhistory", and "Stylo.Rproj". A large red "Texts" label is overlaid on the right. The top-right screenshot shows a "Stylo Cluster Analysis" dendrogram with author names like Eliot, Woolf, and Dickens. The bottom-left screenshot shows a world map titled "Mapping French Theatre" with a legend for toponyms by region and author. A large red "Maps" label is overlaid on the right. The bottom-right screenshot shows a file browser window titled "Théâtre\_Pre\_Final\_Edit" containing files like ".RData", ".Rhistory", and "Théâtre.Rproj". A large red "Data" label is overlaid on the right. The bottom-most screenshot shows a file browser window titled "Eneko\_R" containing files like ".RData", ".Rhistory", and "Eneko\_R.Rproj".

# Texts



# Maps

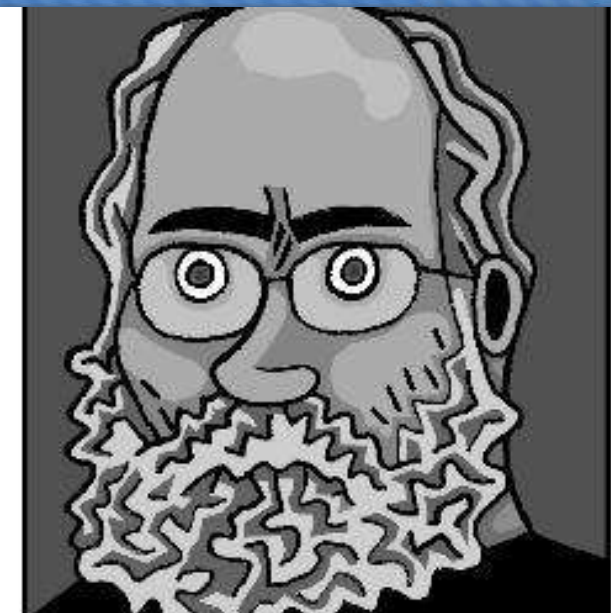




# Let's take an example: Eneko las Heras on *Interviú* and *20 Minutos*.



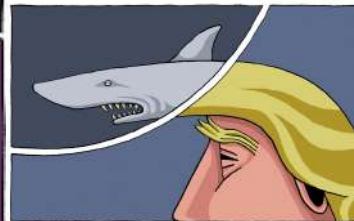
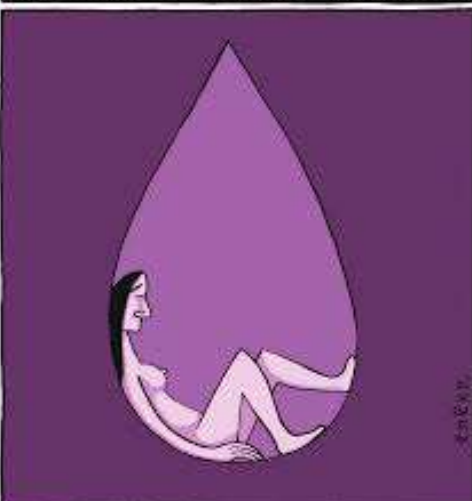
20 minutos.es



CAMBIO CLIMÁTICO



MALTRATADA



FRANJA DE GAZA



Eneko de Las Heras Leizaola is a Venezuelan caricaturist who works in Spain. Eneko de Las Heras was born in Caracas on April 4, 1963 of Basque parents.

He is specialized from the first moments of his career in the graphic humor of social denunciation characterized by a synthesis of forms.

eneko.



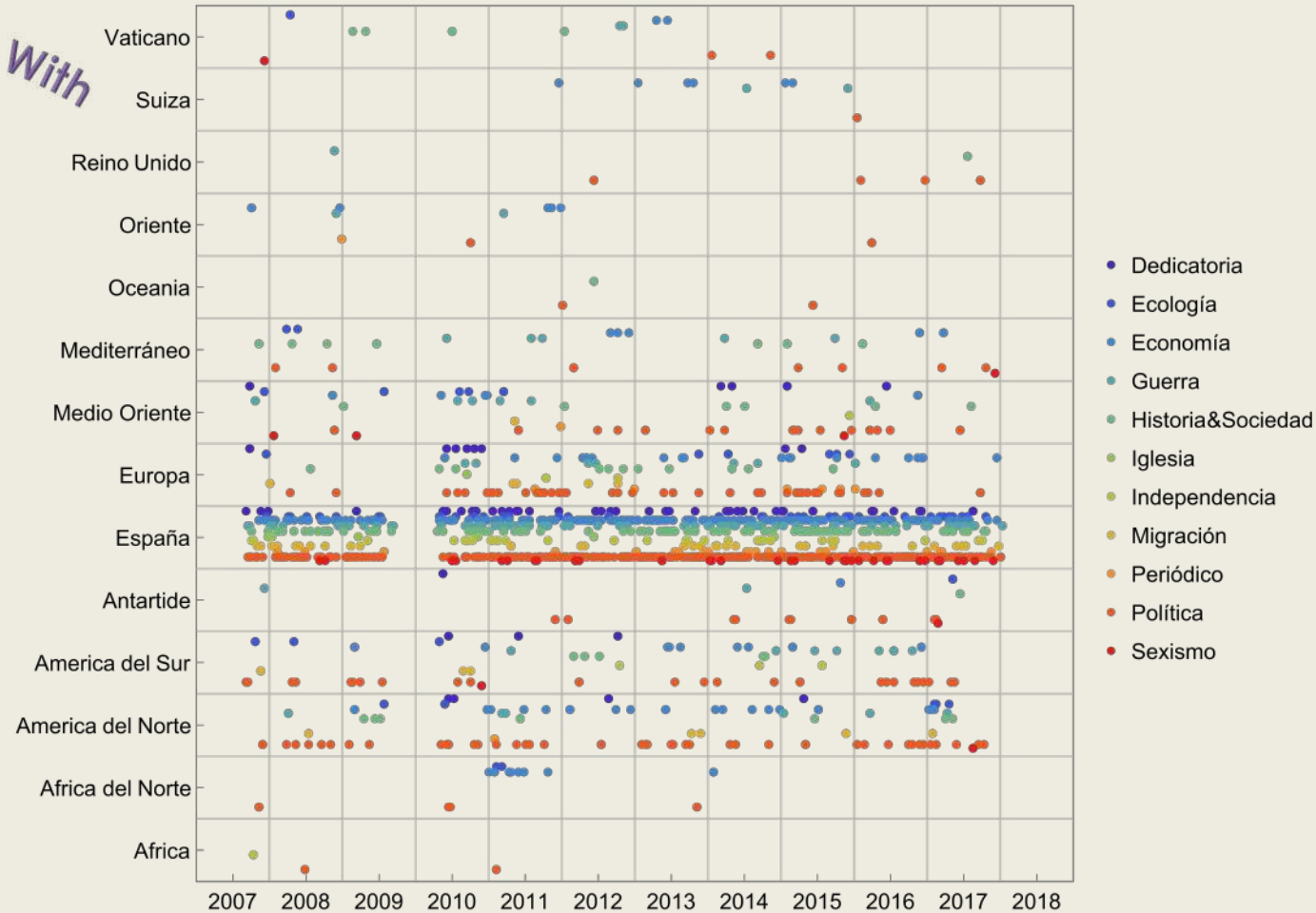
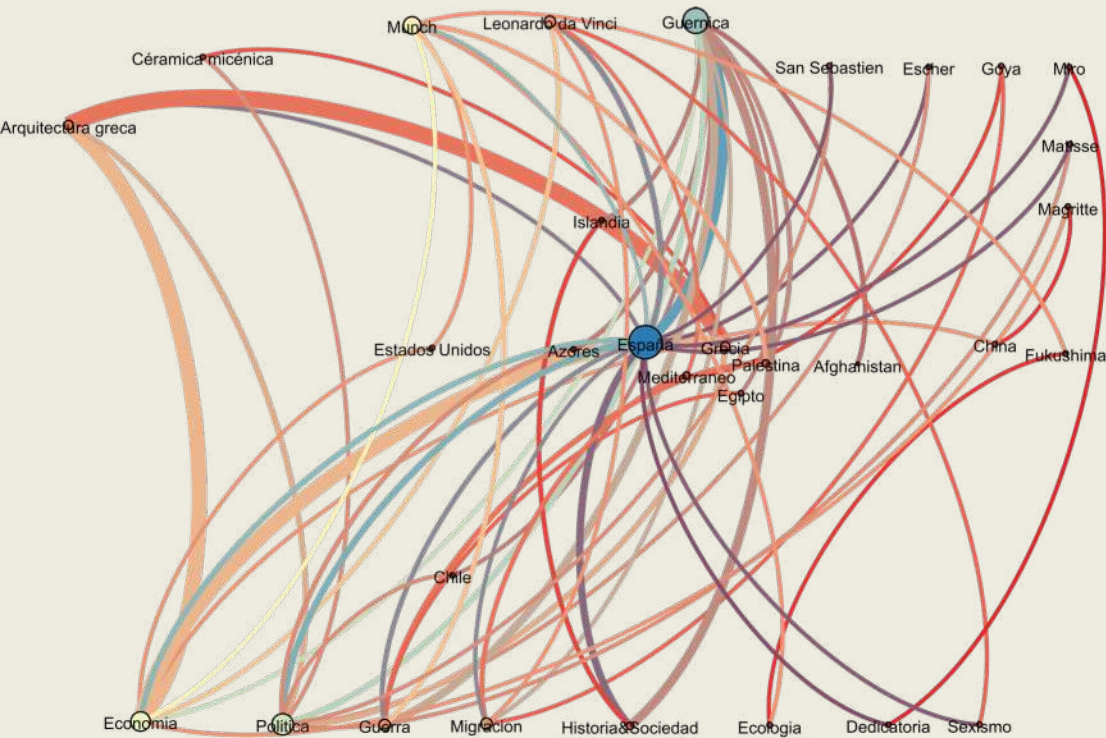
# Spatial Analysis

<http://bit.ly/2K7LZR3>



CARTODB

Made With





# LiveSlides web content

To view

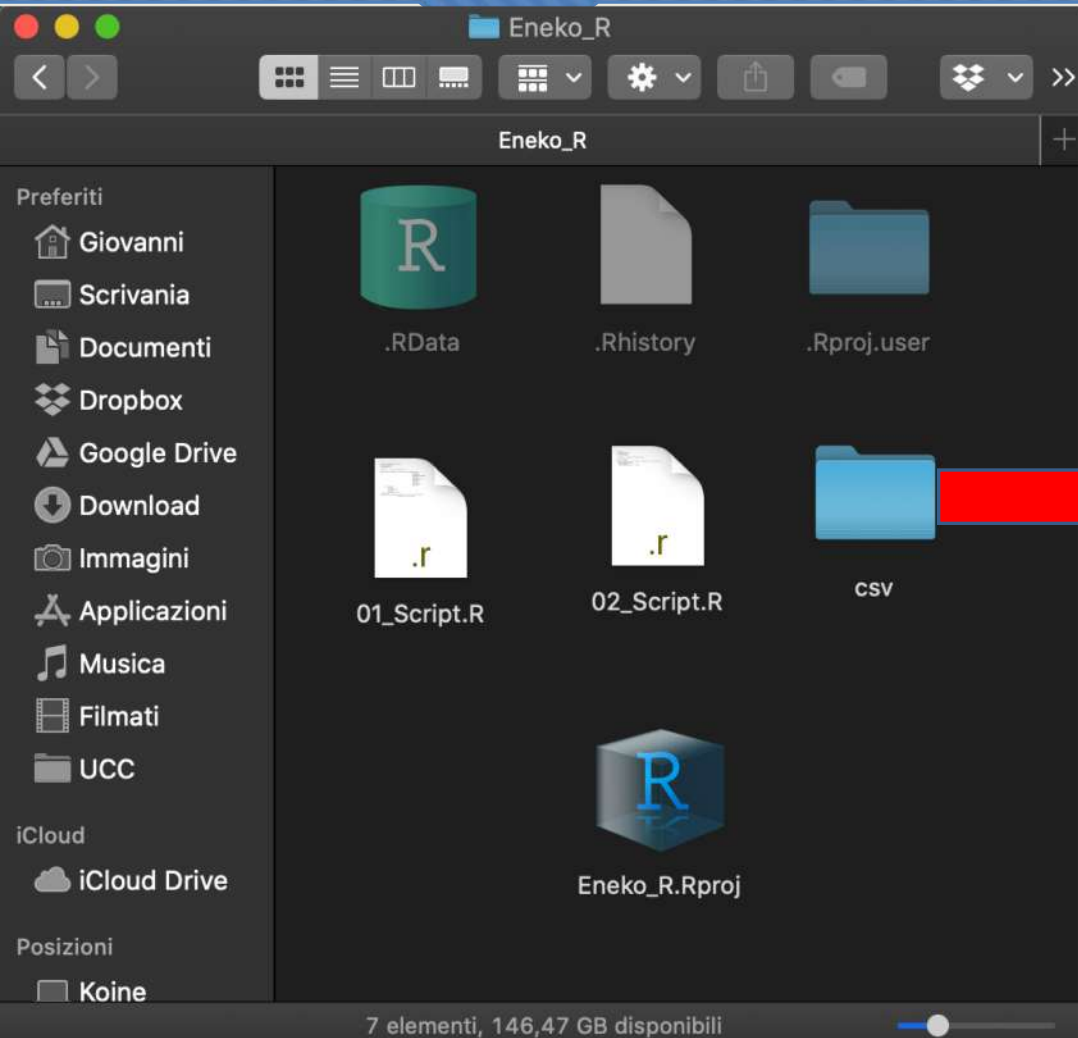
**Download the add-in.**

[liveslides.com/download](https://liveslides.com/download)

**Start the presentation.**



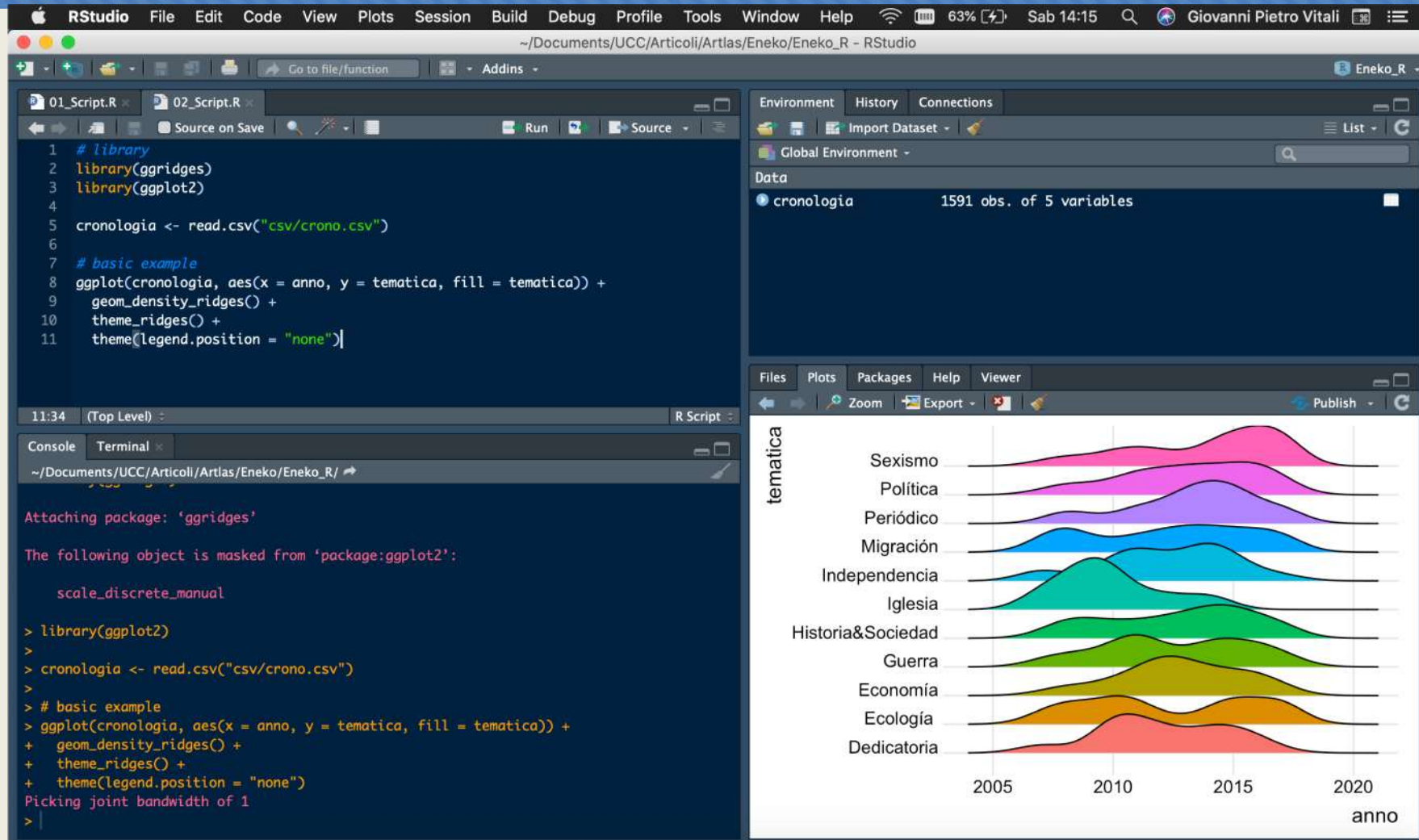
# Working Folder & Dataset



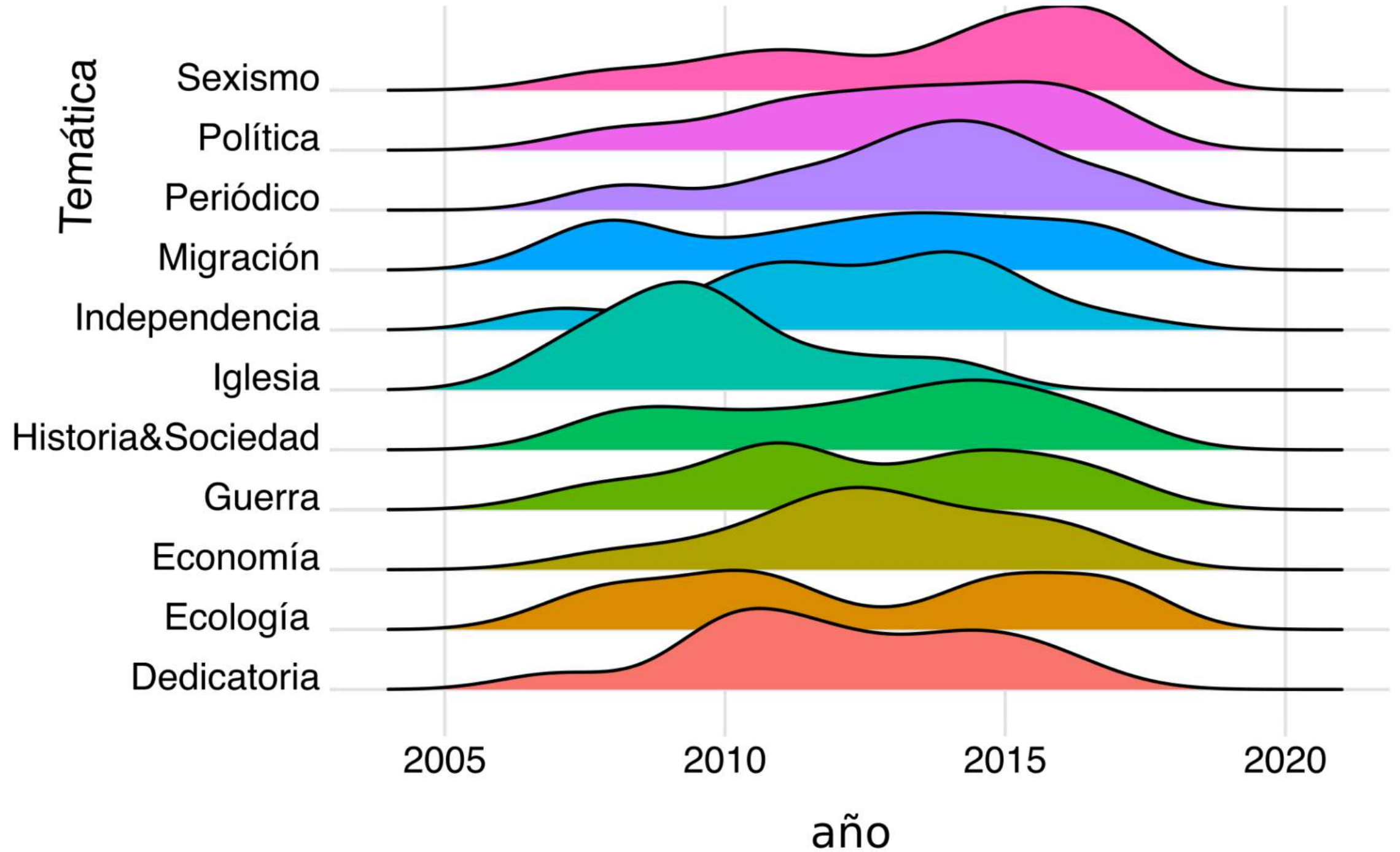
The screenshot shows an OpenOffice Calc spreadsheet titled 'crono.csv'. The spreadsheet contains a table with columns for 'anno', 'tempo', 'tematica', 'pays', and 'areas'. The data includes years, dates, topics, countries, and regions. A red arrow points from the 'csv' folder in the previous image to this spreadsheet.

anno	tempo	tematica	pays	areas
2007	2007-10-10	Independencia	Chad	Africa
2011	2011-01-03	Economía	Egipto	Africa del Norte
2011	2011-01-28	Economía	Egipto	Africa del Norte
2011	2011-04-13	Economía	Egipto	Africa del Norte
2011	2011-04-20	Economía	Egipto	Africa del Norte
2011	2011-06-03	Economía	Egipto	Africa del Norte
2013	2013-11-08	Política	Egipto	Africa del Norte
2008	2008-06-30	Política	Ghana	Africa
2007	2007-11-14	Política	Libia	Africa del Norte
2011	2011-06-29	Economía	Libia	Africa del Norte
2011	2011-10-28	Economía	Libia	Africa del Norte
2010	2010-06-18	Política	Marruecos	Africa del Norte
2010	2010-06-23	Política	Marruecos	Africa del Norte
2011	2011-02-07	Política	Somalia	Africa
2011	2011-02-11	Ecología	Tunisia	Africa del Norte
2011	2011-03-08	Ecología	Tunisia	Africa del Norte
2014	2014-01-29	Economía	Tunisia	Africa del Norte
2007	2007-11-30	Política	Canada	America del Norte
2008	2008-04-07	Guerra	Estados Unidos	America del Norte
2008	2008-07-11	Migración	Estados Unidos	America del Norte

# The software environment









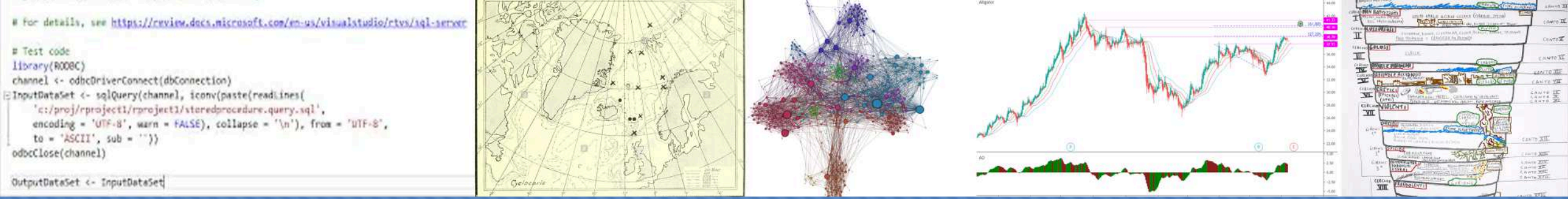
## Live Class on R and Rstudio



<https://www.youtube.com/watch?v=IL0s1coNtRk>







# Rstudio

# \_end

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