



# Herramientas para Ciencia de datos

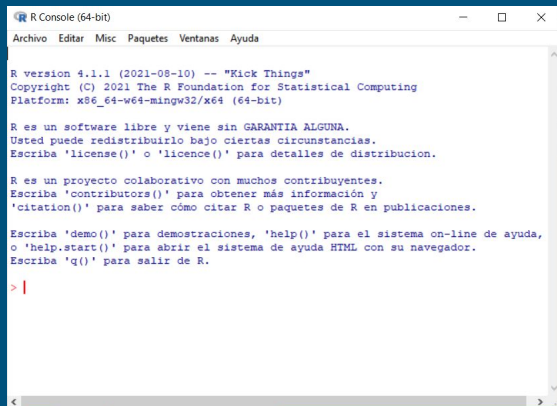


# Herramientas

- Para R
- Para Python
- Integrales
- Google Colab
- Markdown



# Para R



```
R Console (64-bit)
Archivo  Editar  Misc  Paquetes  Ventanas  Ayuda

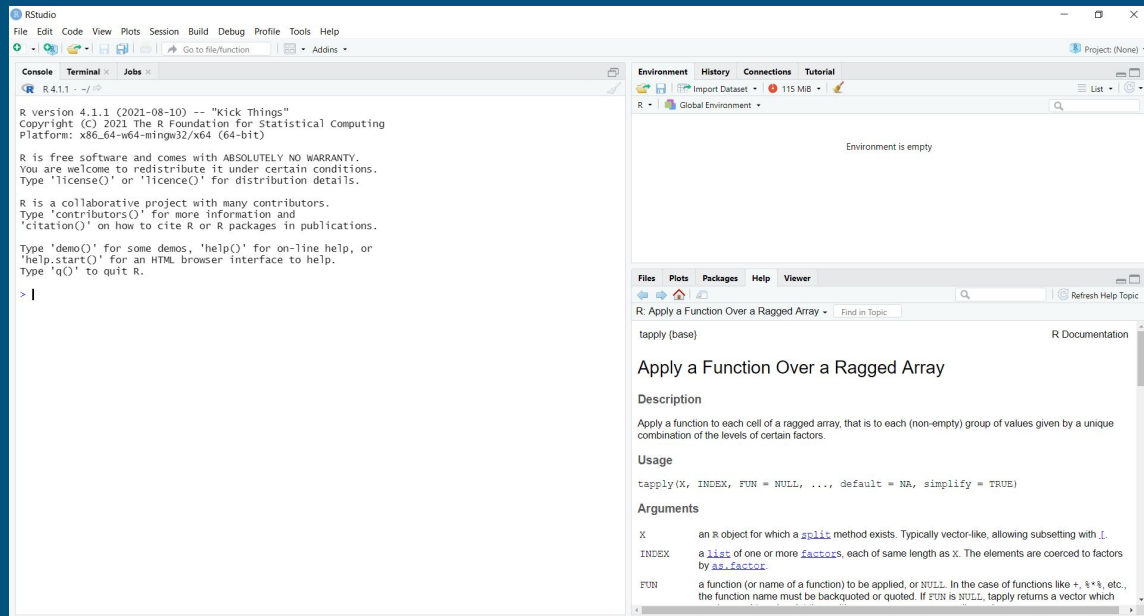
R version 4.1.1 (2021-08-10) -- "Kick Things"
Copyright (C) 2021 The R Foundation for Statistical Computing
Platform: x86_64-w64-mingw32/x64 (64-bit)

R es un software libre y viene sin GARANTIA ALGUNA.
Usted puede redistribuirlo bajo ciertas circunstancias.
Escriba 'license()' o 'licence()' para detalles de distribución.

R es un proyecto colaborativo con muchos contribuyentes.
Escriba 'contributors()' para obtener más información y
'citation()' para saber cómo citar R o paquetes de R en publicaciones.

Escriba 'demo()' para demostraciones, 'help()' para el sistema on-line de ayuda,
o 'help.start()' para abrir el sistema de ayuda HTML con su navegador.
Escriba 'q()' para salir de R.

> |
```



Interfaz R base

<https://cran.ma.imperial.ac.uk/>

Se necesita instalar el interprete

# Para Python

Instalar Python

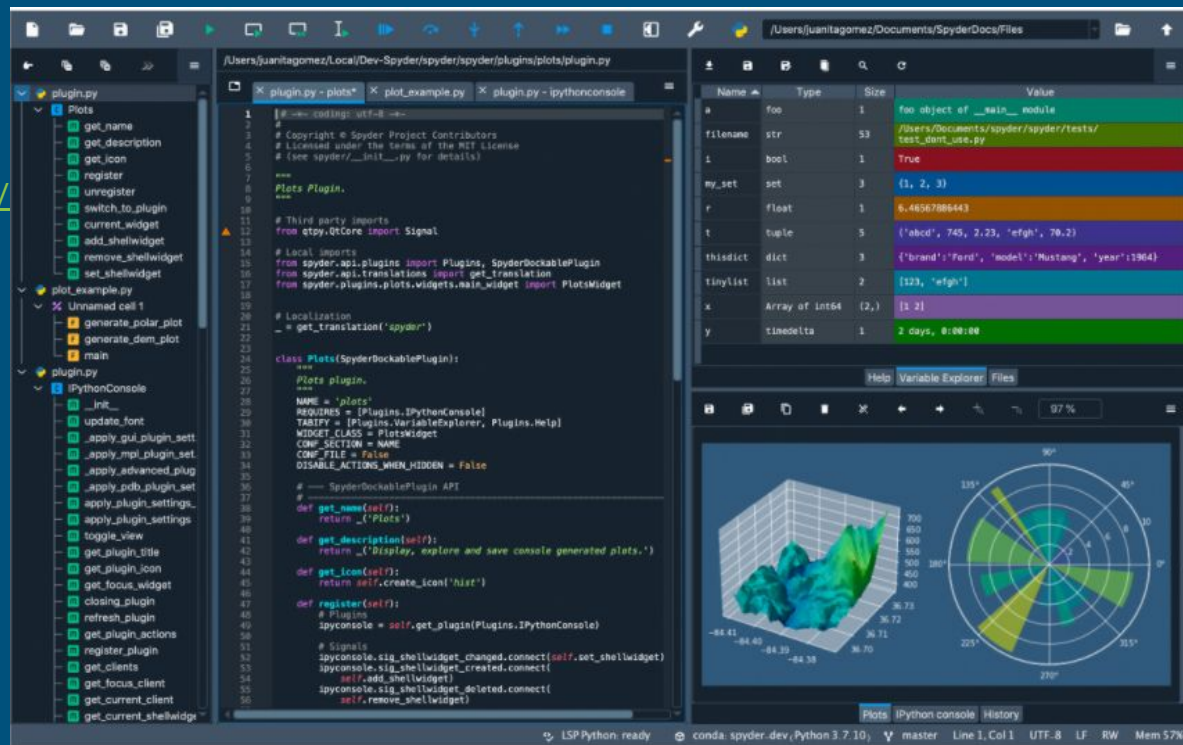
<https://www.python.org/downloads/>

Spyder

<https://www.spyder-ide.org/>

Jupyter

<https://jupyter.org/install>



# Integrales Anaconda



# ANACONDA®

<https://www.anaconda.com/products/individual>



# Integrales Visual Studio Code

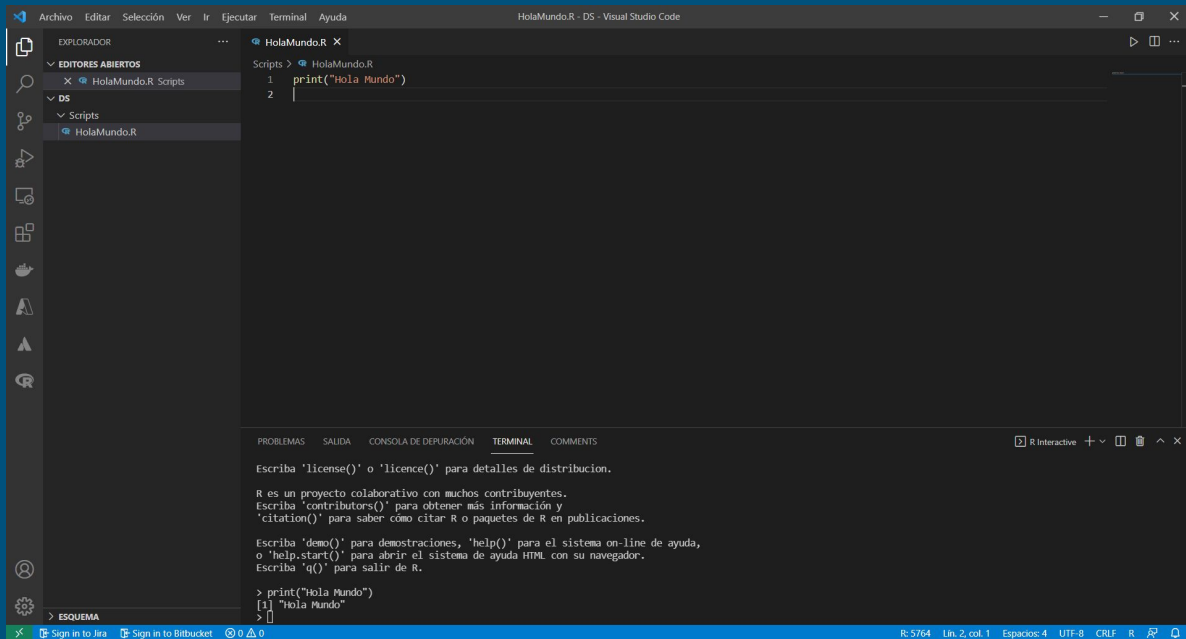
Desarrollo:

- Web
- Aplicaciones
- Ciencia de datos
  - R
  - Python

Extensiones necesarias

R

Jupyter



<https://docs.microsoft.com/en-us/visualstudio/install/install-visual-studio>

# Google Colab

Necesitas una cuenta de google

[https://colab.research.google.com/?utm\\_source=scs-index](https://colab.research.google.com/?utm_source=scs-index)

The screenshot displays the Google Colaboratory web interface in a browser. The address bar shows the URL `colab.research.google.com/notebooks/intro.ipynb`. The page has a header with the Colab logo and the text "Welcome To Colaboratory", followed by a menu bar with options: File, Edit, View, Insert, Runtime, Tools, and Help. On the left side, there is a "Table of contents" panel with a list of links: Getting started, Data science, Machine learning, More Resources, Machine Learning Examples, and a Section icon. The main content area on the right is titled "What is Colaboratory?" and contains the following text: "Colaboratory, or 'Colab' for short, allows you to write and execute Python in your browser, with". Below this is a bulleted list of features: "Zero configuration required", "Free access to GPUs", and "Easy sharing". Further down, it says "Whether you're a **student**, a **data scientist** or an **AI researcher**, Colab can make your work easier. Watch [introduction](#) just get started below!". A section titled "Getting started" follows, with the text: "The document you are reading is not a static web page, but an interactive environment called a **Colab notebook**." and "For example, here is a **code cell** with a short Python script that computes a value, stores it in a variable, and prints it out:". At the bottom, a code cell is shown with the following Python code: 

```
[ ] seconds_in_a_day = 24 * 60 * 60
seconds_in_a_day
```

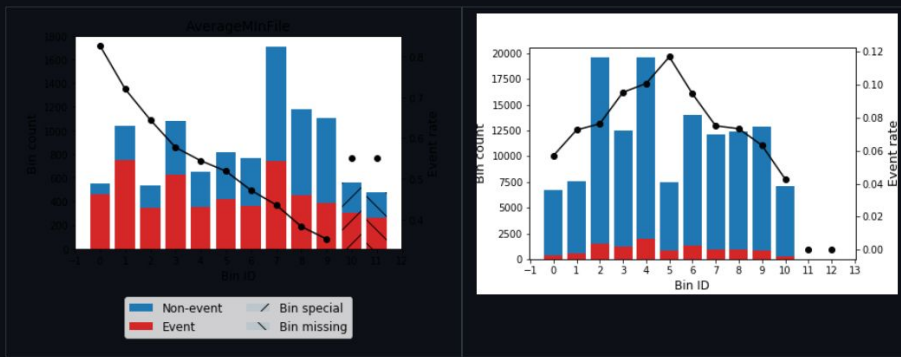
# Git y Github

## OptBinning

CI passing license Apache-2.0 python 3.7 | 3.8 | 3.9 pypi v0.12.2 downloads 766k

OptBinning is a library written in Python implementing a rigorous and flexible mathematical programming formulation to solving the optimal binning problem for a binary, continuous and multiclass target type, incorporating constraints not previously addressed.

- *Papers:*
  - Optimal binning: mathematical programming formulation. <http://arxiv.org/abs/2001.08025>
  - Optimal counterfactual explanations for scorecard modelling. <https://arxiv.org/abs/2104.08619>
- *Blog:* Optimal binning for streaming data. [http://gnpalencia.org/blog/2020/binning\\_data\\_streams/](http://gnpalencia.org/blog/2020/binning_data_streams/)



<https://git-scm.com/downloads>



<https://github.com/>



Repositorio del  
curso

**[https://github.com/arturoTellez/DS\\_R\\_Python](https://github.com/arturoTellez/DS_R_Python)**

# Markdown

<https://github.com/adam-p/markdown-here/wiki/Markdown-Cheatsheet>

## Markdown Cheatsheet

Adam Pritchard edited this page on 29 May 2017 · 96 revisions

This is intended as a quick reference and showcase. For more complete info, see [John Gruber's original spec](#) and the [Github-flavored Markdown info page](#).

Note that there is also a [Cheatsheet specific to Markdown Here](#) if that's what you're looking for. You can also check out [more Markdown tools](#).

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