

El lenguaje de programación R

IDE

El lenguaje de programación R

- **Lenguaje R** o *R base*
en Google: “R base” o directamente <https://cloud.r-project.org/>



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The R Project for Statistical Computing

Getting Started

R is a free software environment for statistical computing and graphics. It is available on a variety of UNIX platforms, Windows and MacOS. To learn more, see the [CRAN mirror](#).

If you have questions about R like how to download and install the software, or what the license terms are, please read our [answers to frequently asked questions](#).

News

- **R version 4.0.3 (Bunny-Wunnies Freak Out)** has been released. The new release is available on the [CRAN mirror](#).
- Thanks to the organisers of useR! 2020 for a successful conference. The talks from the conference are available on the [CRAN mirror](#).
- **R version 3.6.3 (Holding the Windsock)** was released on 2020-05-18.
- You can support the R Foundation with a renewal of your [membership](#).

News via Twitter



The R Foundation

[@_R_Foundation](#)

New R blog entry by Tomas Kalibera and Sławomir Urbanek. Will R work on Apple Silicon? <https://cloud.r-project.org/Blog/public/2020-05-18-apple-silicon/>



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The Comprehensive R Archive Network

Download and Install R

Precompiled binary distributions of the base system and contributed packages, **Windows and Mac** users most likely want one of these versions of R:

- [Download R for Linux](#)
- [Download R for \(Mac\) OS X](#)
- [Download R for Windows](#)

R is part of many Linux distributions, you should check with your Linux package management system in addition to the link above.

Source Code for all Platforms

Windows and Mac users most likely want to download the precompiled binaries listed in the upper box, not the source code. The sources have to be compiled before you can use them. If you do not know what this means, you probably do not want to do it!

- The latest release (2019-04-26, Planting a Tree) [R-3.6.0.tar.gz](#), read [what's new](#) in the latest version.
- Sources of [R alpha and beta releases](#) (daily snapshots, created only in time periods before a planned release).
- Daily snapshots of current patched and development versions are [available here](#). Please read about [new features and bug fixes](#) before filing corresponding feature requests or bug reports.
- Source code of older versions of R is [available here](#).
- Contributed extension [packages](#)

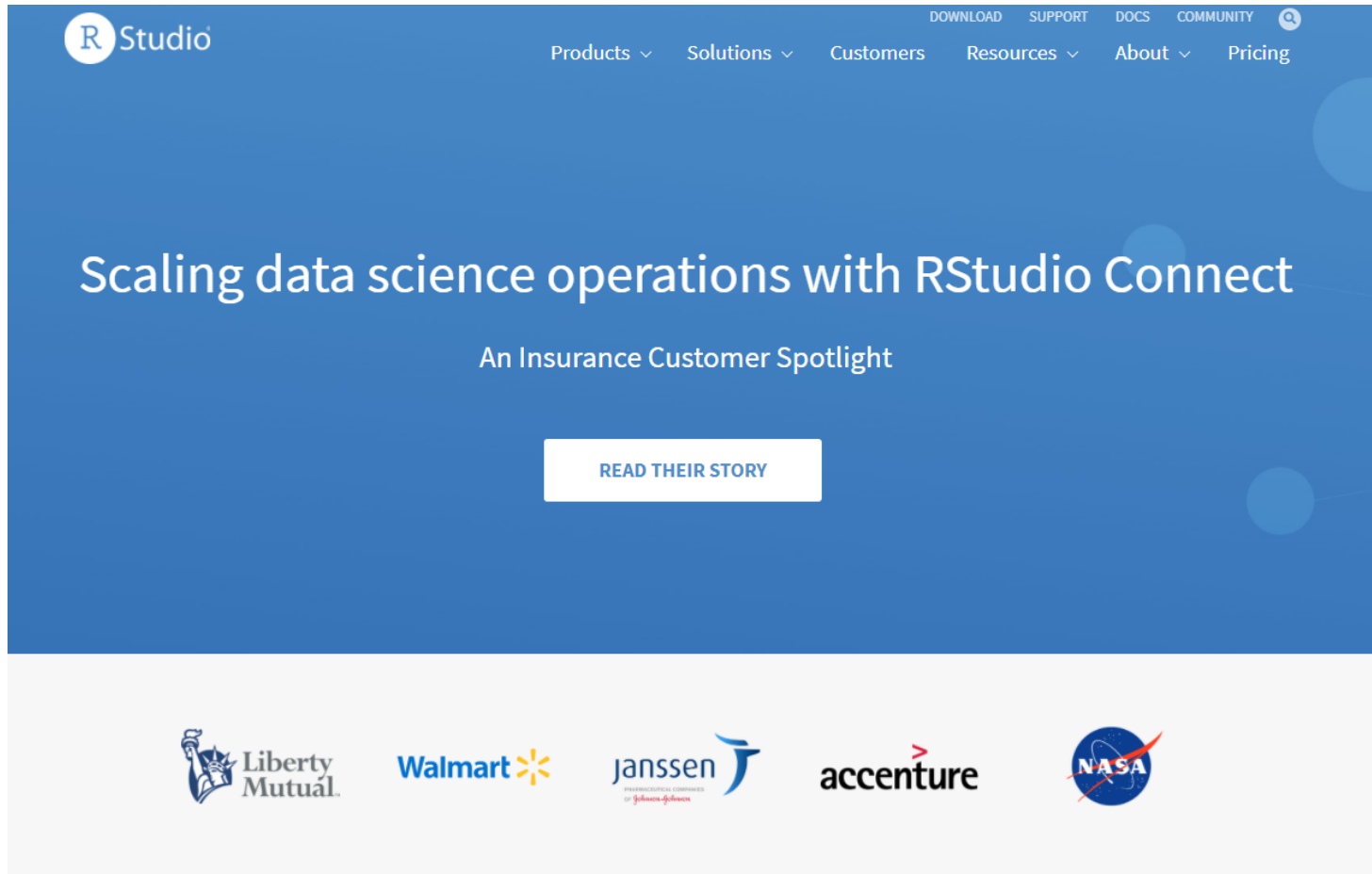
Questions About R

- If you have questions about R like how to download and install the software, or what the license terms are, please read our [answers to frequently asked questions](#) before you send an email.

[What are R and CRAN?](#)

El lenguaje de programación R

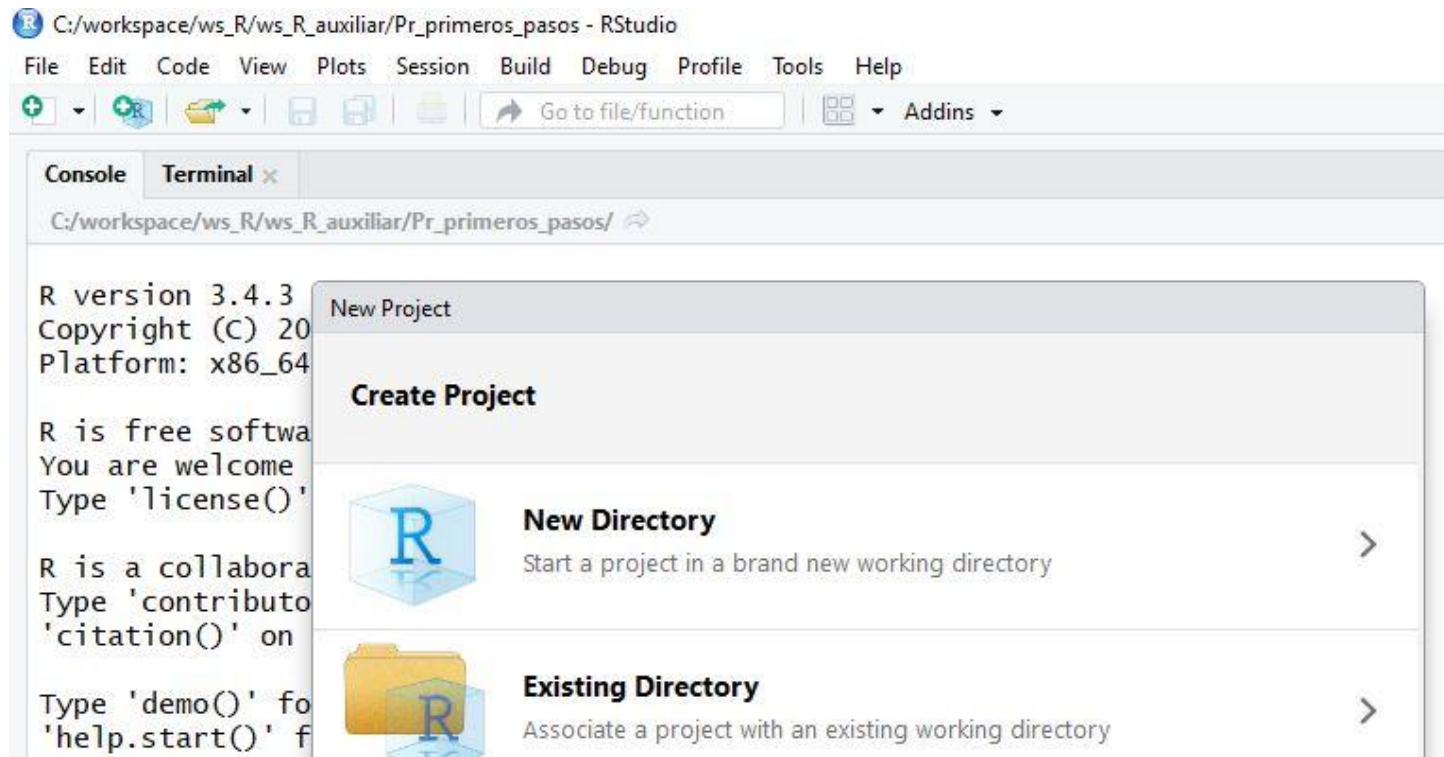
- Entorno de desarrollo o **IDE: RStudio** <https://www.rstudio.com/>



Products -> RStudio
-> RStudio Desktop
-> Download
-> RStudio Desktop (Free)

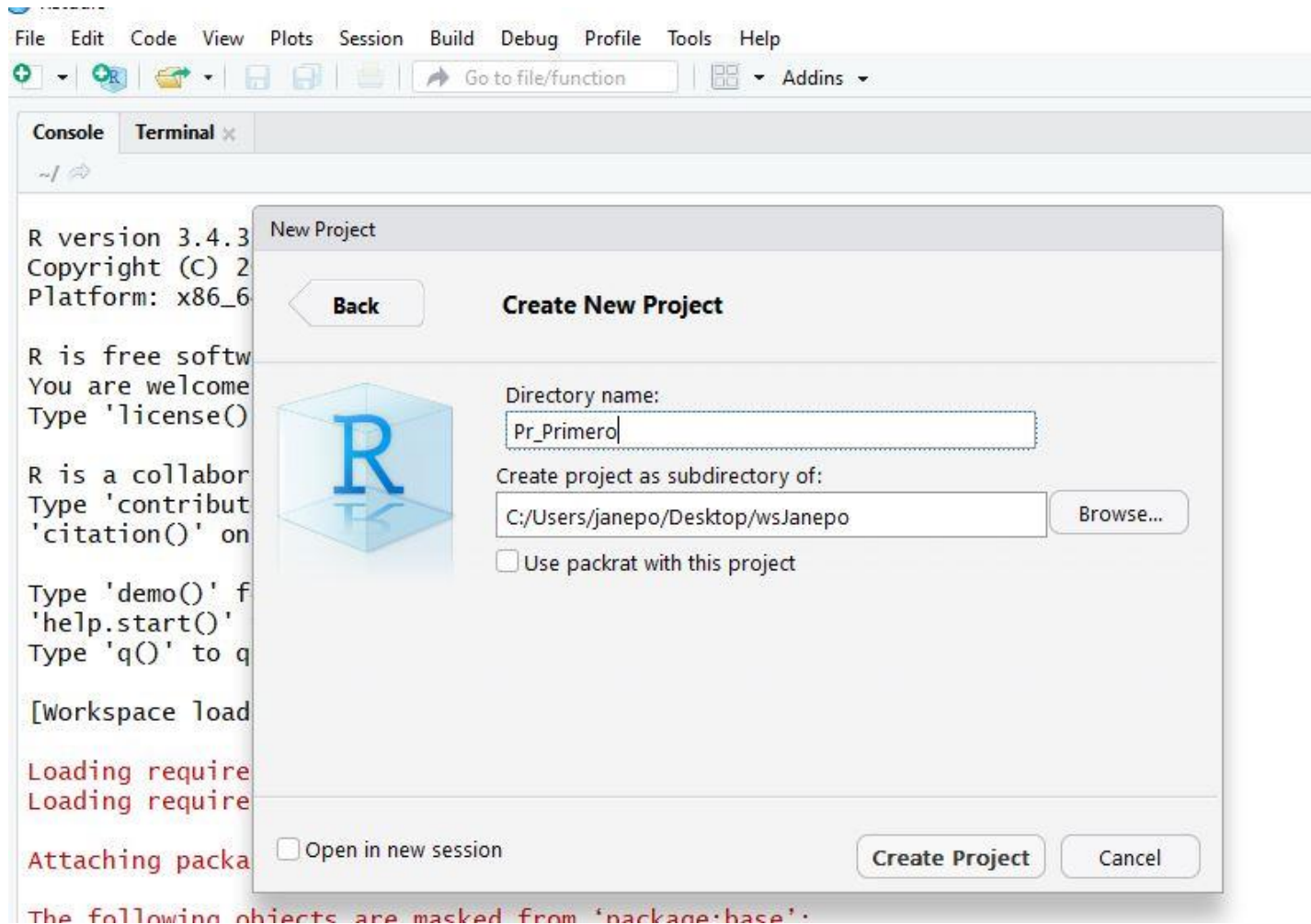
El lenguaje de programación R

- 1) Creamos un directorio de trabajo o *workspace*
por ejemplo una carpeta en el escritorio de nombre wsCursoR
- 2) Abrimos RStudio
- 3) Creamos un **proyecto nuevo** en el directorio de trabajo creado
File -> New Project -> New Directory -> New Project



El lenguaje de programación R

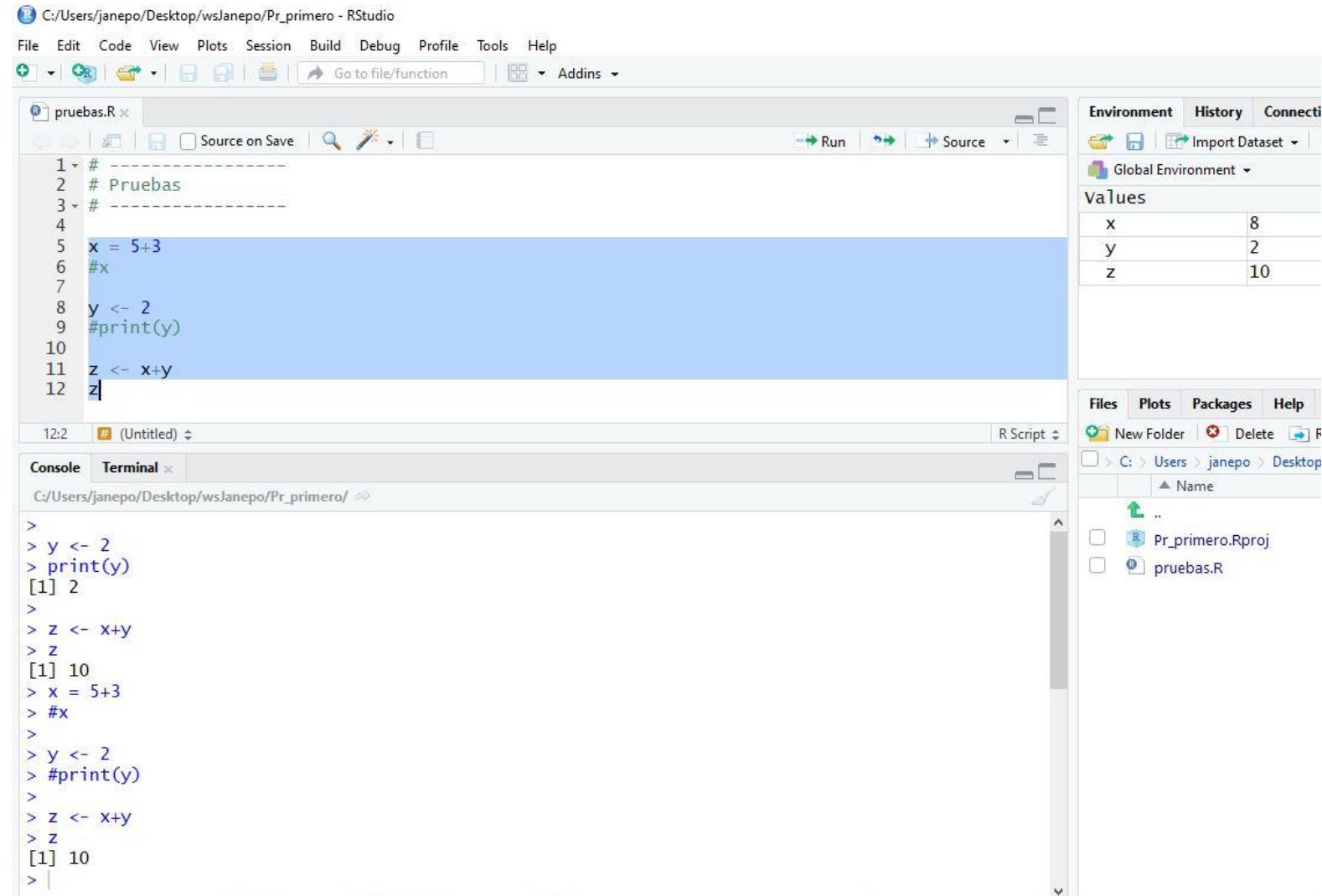
- 4) Se elige un nombre para el proyecto y se comprueba que está guardado en el directorio de trabajo



El lenguaje de programación R

- Trabajar mediante un script
File -> New File -> R script

(Compruebe que el script se guarda en “su sitio”)



The screenshot shows the RStudio interface. The main editor window displays a script file named 'pruebas.R' with the following R code:

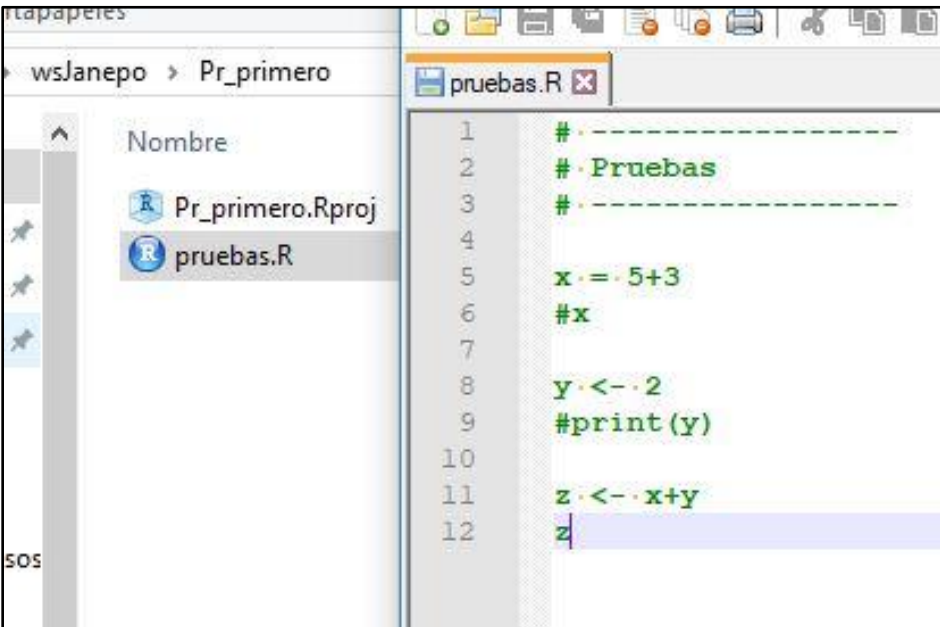
```
1 # -----  
2 # Pruebas  
3 # -----  
4  
5 x = 5+3  
6 #x  
7  
8 y <- 2  
9 #print(y)  
10  
11 z <- x+y  
12 z
```

The console window at the bottom shows the output of the script execution:

```
>  
> y <- 2  
> print(y)  
[1] 2  
>  
> z <- x+y  
> z  
[1] 10  
> x = 5+3  
> #x  
>  
> y <- 2  
> #print(y)  
>  
> z <- x+y  
> z  
[1] 10  
>
```

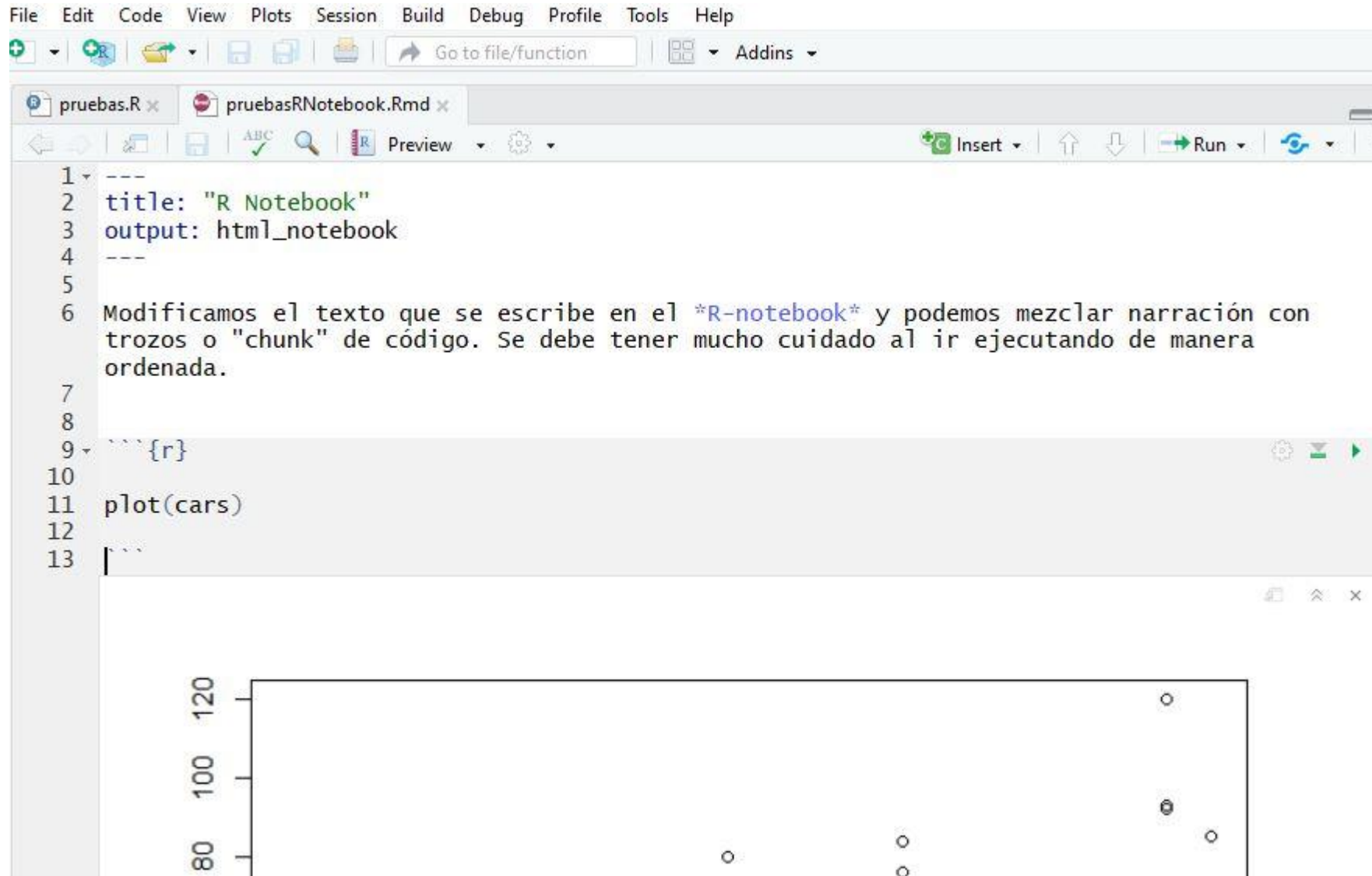
The Environment pane on the right shows the Global Environment with the following values:

Variable	Value
x	8
y	2
z	10



El lenguaje de programación R

- Trabajar mediante un R-notebook



El lenguaje de programación R

- Trabajar mediante un R-notebook



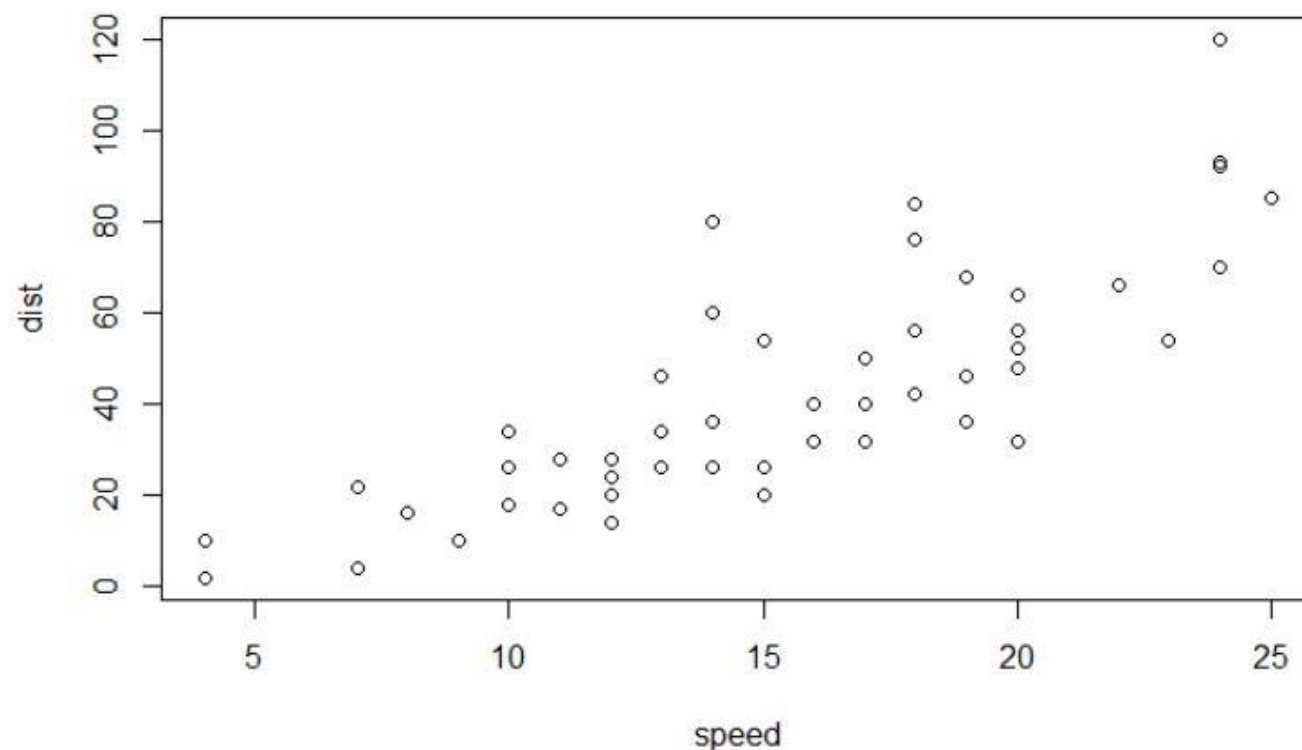
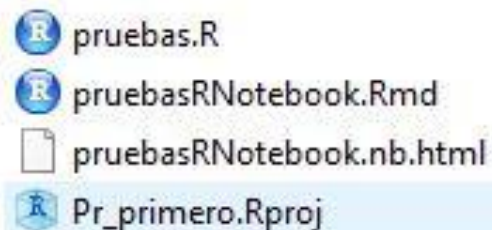
R Notebook

Code ▾

Modificamos el texto que se escribe en el *R-notebook* y podemos mezclar narración con trozos o “chunk” de código. Se debe tener mucho cuidado al ir ejecutando de manera ordenada.

Obsérvese la extensión del fichero del script (.R) y la del R notebook (.Rmd).

¿Qué otras cosas encontramos en el proyecto?



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Recursos de consulta:

- Hojas de resumen o “*cheat sheet*” sobre muchos paquetes.
 - Buscad en RStudio (Resources -> Cheatsheets)
<https://www.rstudio.com/resources/cheatsheets/>
 - RStudio
 - Base R
 - Advance R
- Stackoverflow: para consultar errores, etc.
<https://es.stackoverflow.com/>
(Se suele llegar desde Google al poner el error)
- R-bloggers: <https://www.r-bloggers.com/>