



Miguel Angel Orjuela Rocha Ing. de Sistemas y Computación

Skills:

- Desarrollo Fullstack
- Analítica de datos
- Transferencia de conocimiento

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Contenido

- Revisión de instalación
- Los programas R y RStudio
- Interfaz de RStudio
- Programación básica
 - Tipos de datos
 - Estructuras de control
 - Funciones

Revisión de instalación

Los programas R y RStudio

¿Qué es R?

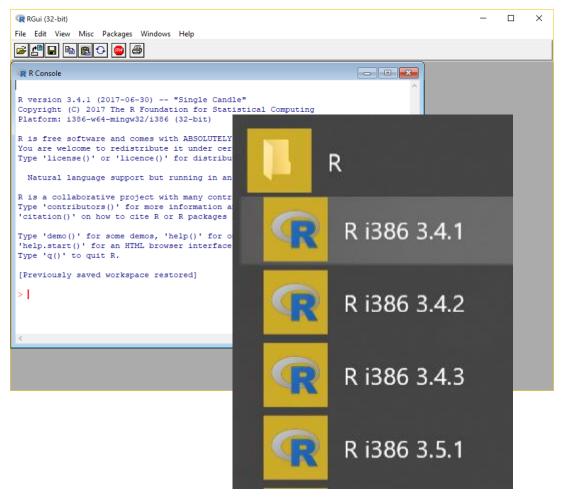
- Es un software libre
- Diseñado para hacer análisis estadísticos y gráficas
- Tiene una curva de aprendizaje relativamente sencilla
- Permite hacer prototipos de modelos muy rápido y con resultados muy buenos
- Permite compartir código de forma sencilla

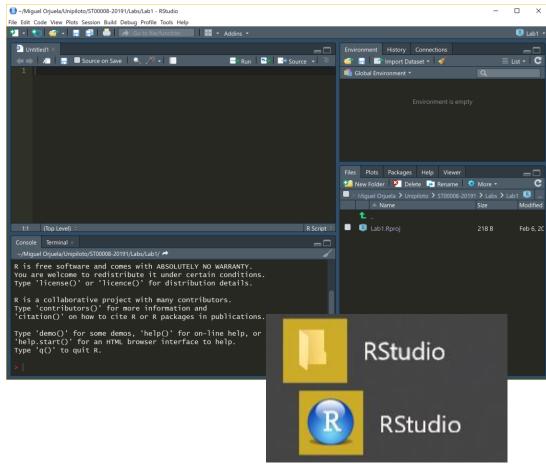
¿Qué es RStudio?

- Es una empresa que produce software especial para programar en R
 - Entorno Integrado de Desarrollo
 - Soluciones de escritorio y web
 - Paquetes especiales para R
- Tiene unas soluciones gratuitas (community) y otras pagas (profesionales)

R y RStudio

Los programas R y RStudio





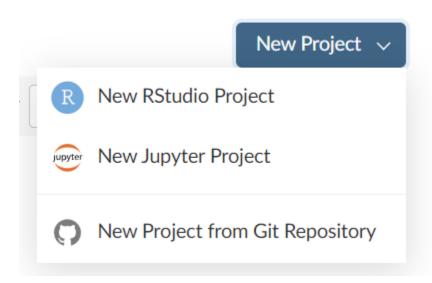
■ Servicio web que permite ejecutar R en la nube (servidores de RStudio)

https://rstudio.cloud ▼ Traducir esta página

RStudio Cloud

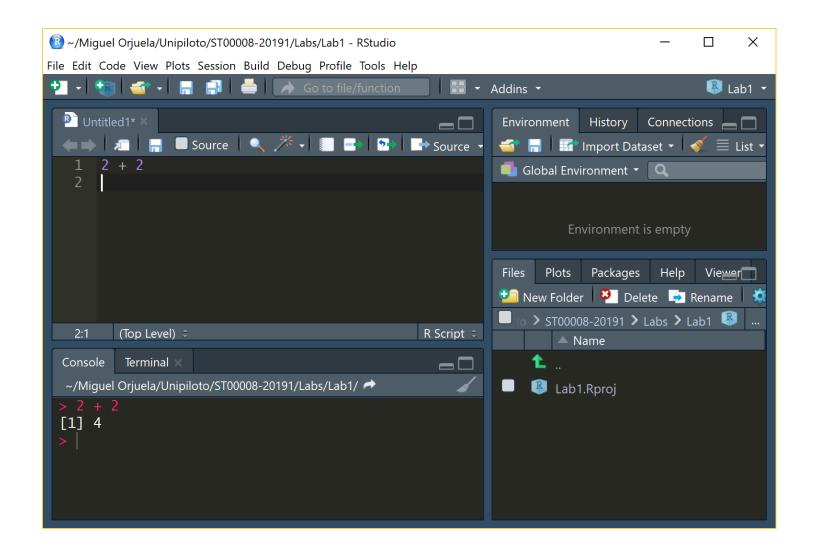
RStudio Cloud is a lightweight, cloud-based solution that allows anyone to do, share, teach and learn data science online. ... There is nothing to configure and ...

Se inicia sesión y se crea un nuevo proyecto

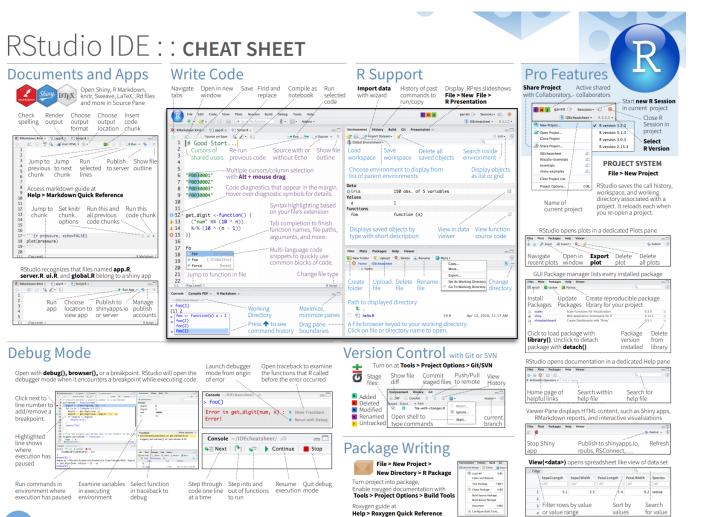


<u>Interfaz de RStudio</u>

Interfaz de RStudio



Interfaz de RStudio



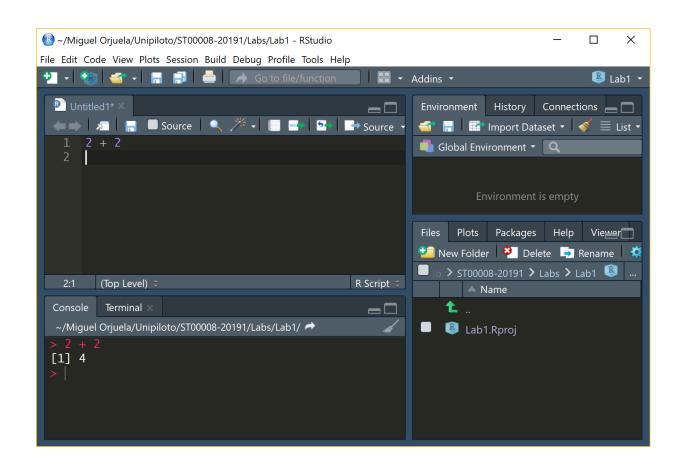


Interfaz de RStudio

| 1 LAYOUT | Windows/Linu | ıx Mac | 4 WRITE CODE | Windows /Linux | Mac | WHY RSTUDIO SERVER PRO? | | |
|--|--|--|---|---|--|---|--|--|
| Move focus to Source Editor | Ctrl+1 | Ctrl+1 | Attempt completion | Tab or Ctrl+Space | Tab or Cmd+Space | RSP extends the the open source | server with a | |
| Move focus to Console | Ctrl+2 | Ctrl+2 | Navigate candidates | ↑ / ↓ | ↑ / ↓ | commercial license, support, and more: | | |
| Move focus to Help | Ctrl+3 | Ctrl+3 | Accept candidate | Enter, Tab, or → | Enter, Tab, or 🔷 | open and run multiple R session | s at once | H |
| Show History | Ctrl+4 | Ctrl+4 | Dismiss candidates | Esc | Esc | tune your resources to improve | | |
| Show Files | Ctrl+5 | Ctrl+5 | Undo | Ctrl+Z | Cmd+Z | edit the same project at the same | | |
| Show Plots | Ctrl+6 | Ctrl+6 | Redo | Ctrl+Shift+Z | Cmd+Shift+Z | see what you and others are doi | | |
| Show Packages | Ctrl+7 | Ctrl+7 | Cut | Ctrl+X | Cmd+X | switch easily from one version of | | |
| Show Environment | Ctrl+8 | Ctrl+8 | Сору | Ctrl+C | Cmd+C | , | | |
| Show Git/SVN | Ctrl+9 | Ctrl+9 | Paste | Ctrl+V | Cmd+V | integrate with your authenticatio | | ind audit practices |
| Show Build | Ctrl+0 | Ctrl+0 | Select All | Ctrl+A Ctrl+D | Cmd+A Cmd+D | Download a free 45 day evaluation | | |
| 2 RUN CODE | Windows/Linu | іх Мас | Delete Line Select | | Shift+[Arrow] | www.rstudio.com/products/rst | udio-server-pro | I |
| Search command history | Ctrl+ ↑ | Cmd+ ↑ | Select Word | Shift+[Arrow] Ctrl+Shift+ ←/→ | Option+Shift+ \(\righta | 5 DEBUG CODE | Windows/Li | nuv Mac |
| Navigate command history | ↑/ ₩ | ↑/ ₩ | Select to Line Start | Alt+Shift+ | Cmd+Shift+ | Toggle Breakpoint | Shift+F9 | Shift+F9 |
| Move cursor to start of line | Home | Cmd+ ← | Select to Line Start | Alt+Shift+→ | Cmd+Shift+→ | Execute Next Line | F10 | F10 |
| Move cursor to end of line | End | Cmd+→ | Select to Ellie Ella Select Page Up/Down | Shift+PageUp/Down | Shift+PageUp/Down | Step Into Function | Shift+F4 | Shift+F4 |
| Change working directory | Ctrl+Shift+H | Ctrl+Shift+H | Select to Start/End | Shift+Alt+ ↑/ ↓ | Cmd+Shift+♠/♣ | | Shift+F6 | Shift+F6 |
| Interrupt current command | Esc | Esc | Delete Word Left | Ctrl+Backspace | Ctrl+Opt+Backspace | Finish Function/Loop | | |
| Clear console | Ctrl+L | Ctrl+L | Delete Word Right | Ctti backspace | Option+Delete | Continue | Shift+F5 | Shift+F5 |
| Quit Session (desktop only) | Ctrl+O | Cmd+O | Delete to Line End | | Ctrl+K | Stop Debugging | Shift+F8 | Shift+F8 |
| Restart R Session | Ctrl+Shift+F10 | | Delete to Line Start | | Option+Backspace | | Windows/Lii | |
| Run current line/selection | Ctrl+Enter | Cmd+Enter | Indent | Tab (at start of line) | Tab (at start of line) | 6 VERSION CONTROL | | |
| Run current (retain cursor) | Alt+Enter | Option+Enter | Outdent | Shift+Tab | Shift+Tab | Show diff | Ctrl+Alt+D | Ctrl+Option+D |
| Run from current to end | Ctrl+Alt+E | Cmd+Option+E | Yank line up to cursor | Ctrl+U | Ctrl+U | Commit changes | Ctrl+Alt+M | Ctrl+Option+M |
| Run the current function | Ctrl+Alt+F | Cmd+Option+F | Yank line after cursor | Ctrl+K | Ctrl+K | Scroll diff view | Ctrl+ ↑/ ↓ | Ctrl+ ↑/ ↓ |
| Source a file | Ctrl+Alt+G | Cmd+Option+G | Insert yanked text | Ctrl+Y | Ctrl+Y | Stage/Unstage (Git) | Spacebar | Spacebar |
| Source the current file | Ctrl+Shift+S | Cmd+Shift+S | Insert <- | | | Stage/Unstage and move to next | Enter | Enter |
| | | | | | | | | |
| Source with echo | Ctrl+Shift+Ente | | | Alt+- Ctrl+Shift+M | Option+- Cmd+Shift+M | | | |
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| S NAVIGATE CODE Goto File/Function Fold Selected Unfold Selected Shift Fold All Unfold All Shift Go to line Jump to Switch to tab Previous tab Next tab Ctrl+ Next tab Ctrl+ Nist tab Ctrl+ Navigate back Winner Ctrl+ Navigate back Ctrl+ Navigate back Ctrl+ Navigate back Ctrl+ Navigate back | Ows /Linux Alt+L Alt+O Alt+G Alt+G Alt+J Shift+. | Mac Ctrl+. Cmd+Option+L Cmd+Option+L Cmd+Option+O Cmd+Shift+Option+O Cmd+Shift+Option+O Cmd+Shift+Option+J Ctrl+Shift+. Ctrl+F11 Ctrl+F12 Ctrl+Shift+F11 Ctrl+Shift+F12 Cmd+F9 | Insert %>% Show help for function Show source code New document New document (Chrome) Open document Save document Close document Close document Close document Stract function Extract variable Reindent lines (Un)Comment lines Reflow Comment Reformat Selection Select within braces | Ctrl+Shift+M F1 F2 Ctrl+Shift+N Ctrl+Alt+Shift+N Ctrl+O Ctrl+S Ctrl+W Ctrl+Alt+W Ctrl+Alt+W Ctrl+Alt+W Ctrl+Alt+V Ctrl+Shift+U Ctrl+Shift+C Ctrl+Shift+C Ctrl+Shift+E | Cmd+Shift+M F1 F2 Cmd+Shift+N Cmd+Shift+Opt+N Cmd+O Cmd+S Cmd+W Cmd+Option+W Cmd+Option+X Cmd+Option+V Cmd+Ift+C Cmd+Shift+C Cmd+Shift+/ Cmd+Shift+A Ctrl+Shift+A | Build and Reload Load All (devtools) Test Package (Desktop) Test Package (Web) Check Package Document Package 8 DOCUMENTS AND APPS Preview HTML (Markdown, etc.) Knit Document (knitr) Compile Notebook Compile PDF (TeX and Sweave) Insert chunk (Sweave and Knitr) Insert code section Re-run previous region | Ctrl+Shift+B Ctrl+Shift+L Ctrl+Shift+F Ctrl+Shift+E Ctrl+Shift+B Windows/Lim Ctrl+Shift+K Ctrl+Shift+K Ctrl+Shift+K Ctrl+Shift+K Ctrl+Shift+K Ctrl+Shift+K Ctrl+Shift+K Ctrl+Shift+R Ctrl+Shift+R Ctrl+Shift+R Ctrl+Shift+R Ctrl+Shift+P | Cmd+Shift+B Cmd+Shift+L Cmd+Shift+T Cmd+Opt+F7 Cmd+Shift+E Cmd+Shift+B LIX Mac Cmd+Shift+K Cmd+Shift+K Cmd+Shift+K Cmd+Shift+K Cmd+Option+I Cmd+Shift+R Cmd+Shift+R Cmd+Shift+R Cmd+Shift+R Cmd+Shift+R Cmd+Shift+R |
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| S NAVIGATE CODE Goto File/Function Fold Selected Alt+L Unfold Selected Shift Fold All Alt+C Unfold All Shift Go to line Shift Switch to tab Ctrl+ Next tab Ctrl+ First tab Ctrl+ Navigate back Ctrl+ Navigate forward Jump to Brace Selection for Find Ctrl+ Select within Brace Use Selection for Find Ctrl+ Ctrl | Ows / Linux Alt+L Alt+O Alt+G Alt+G Shift+. | Mac Ctrl+. Cmd+Shift+Enter Mac Ctrl+. Cmd+Option+L Cmd+Shift+Option+D Cmd+Shift+Option+O Cmd+Shift+Option+O Cmd+Shift+Option+J Ctrl+Shift+. Ctrl+F11 Ctrl+F12 Ctrl+Shift+F12 Cmd+F9 Cmd+F10 Ctrl+P0 Ctrl+P10 Ctrl+P0 Ctrl+P10 Ctrl+Shift+P10 Ctrl+P10 Ctrl+Shift+Option+E | Insert %>% Show help for function Show source code New document New document Open document Close document Close document Close document Close document Close a I document Extract function Extract variable Reindent lines (Un)Comment lines Reflow Comment Reformat Selection Select within braces Show Diagnostics Transpose Letters | Ctrl+Shift+M F1 F2 Ctrl+Shift+N Ctrl+Alt+Shift+N Ctrl+O Ctrl+S Ctrl+W Ctrl+Alt+W Ctrl+Alt+W Ctrl+Alt+W Ctrl+Alt+V Ctrl+Alt+C Ctrl+Shift+C Ctrl+Shift+C Ctrl+Shift+C Ctrl+Shift+A Ctrl+Shift+A Ctrl+Shift+A | Cmd+Shift+M F1 F2 Cmd+Shift+N Cmd+Shift+Opt+N Cmd+O Cmd+S Cmd+W Cmd+Option+W Cmd+Option+W Cmd+Option+V Cmd+Dtion+V Cmd+Coption+V Cmd+Shift+C Cmd+Shift+C Cmd+Shift+A Ctrl+Shift+E Cmd+Shift+D Ctrl+T Cmd+Shift+Opt+P Ctrl+T | Build and Reload Load All (devtools) Test Package (Desktop) Test Package (Web) Check Package Document Package BOCUMENTS AND APPS Preview HTML (Markdown, etc.) Knit Document (knitr) Compile Notebook Compile PDF (TeX and Sweave) Insert chunk (Sweave and Knitr) Insert code section Re-run previous region Run current document Run from start to current line Run the current code section | Ctrl+Shift+B Ctrl+Shift+L Ctrl+Shift+F Ctrl+Shift+E Ctrl+Shift+E Ctrl+Shift+K Ctrl+Shift+K Ctrl+Shift+K Ctrl+Shift+K Ctrl+Shift+K Ctrl+Shift+R Ctrl+Shift+R Ctrl+Shift+R Ctrl+Shift+R Ctrl+Shift+B Ctrl+Shift+B Ctrl+Shift+B Ctrl+Shift+B Ctrl+Shift+B Ctrl+Shift+B Ctrl+Shift+B Ctrl+Shift+B | Cmd+Shift+B Cmd+Shift+I Cmd+Shift+T Cmd+Opt+F7 Cmd+Shift+E Cmd+Shift+B UX Mac Cmd+Shift+K Cmd+Shift+K Cmd+Shift+K Cmd+Shift+K Cmd+Shift+K Cmd+Shift+K Cmd+Option+I Cmd+Shift+R Cmd+Option+R Cmd+Option+R Cmd+Option+T |
| S NAVIGATE CODE Goto File/Function Fold Selected Unfold Selected Shift- Fold All Unfold All Shift- Go to line Shift- Switch to tab Ctrl+ Previous tab Next tab Ctrl+ First tab Last tab Last tab Last tab Savigate forward Jump to Brace Select within Braces Use Selection for Find Find in Files Wind Ctrl+ Ctr | Alt+L Alt+O Alt+G Alt+G Alt+J Shift+. Shift+F11 Shift+F12 Shift+F14 Shift+Alt+E Shift+Alt+E Shift+Alt+E Shift+F1 | Mac Ctrl+. Cmd+Shift+Option+L Cmd+Shift+Option+D Cmd+Shift+Option+O Cmd+Shift+Option+O Cmd+Shift+Option+G Cmd+Shift+Option+G Ctrl+Shift+ Ctrl+F11 Ctrl+F12 Ctrl+Shift+F12 Ctrl+Shift+F12 Ctrl+Shift+F12 Ctrl+Shift+F12 Ctrl+P Ctrl+Shift+Option+E Ctrl+Shift+Option+E Ctrl+Shift+Option+E | Insert %>% Show help for function Show source code New document New document (Crome) Open document Save document Close document Close document Close document Close all documents Extract function Extract variable Reindent lines (Un)Comment lines Reflow Comment Reformat Selection Select within braces Show Diagnostics Transpose Letters Move Lines Up/Down | Ctrl+Shift+M F1 F2 Ctrl+Shift+N Ctrl+Alt+Shift+N Ctrl+O Ctrl+S Ctrl+W Ctrl+Alt+W Ctrl+Alt+W Ctrl+Alt+V Ctrl+Alt+V Ctrl+Alt+V Ctrl+Shift+C Ctrl+Shift+C Ctrl+Shift+A Ctrl+Shift+A Ctrl+Shift+A Alt+P Alt+↑◆ | Cmd+Shift+M F1 F2 Cmd+Shift+N Cmd+Shift+Opt+N Cmd+S Cmd+O Cmd+S Cmd+W Cmd+Option+W Cmd+Option+W Cmd+Option+V Cmd+Coption+V Cmd+Shift+U Cmd+Shift+C Cmd | Build and Reload Load All (devtools) Test Package (Desktop) Test Package (Web) Check Package Document Package 8 DOCUMENTS AND APPS Preview HTML (Markdown, etc.) Knit Document (knitr) Compile Notebook Compile PDF (Tex and Sweave) Insert chunk (Sweave and Knitr) Insert code section Re-run previous region Run current document Run from start to current line Run the current code section Run previous Sweave/Rmd code | Ctrl+Shift+B Ctrl+Shift+L Ctrl+Shift+F Ctrl+Shift+E Ctrl+Shift+B Windows/Lim Ctrl+Shift+K Ctrl+Shift+K Ctrl+Shift+K Ctrl+Shift+K Ctrl+Shift+K Ctrl+Shift+K Ctrl+Shift+R Ctrl+Alt+I Ctrl+Alt+B Ctrl+Alt+B Ctrl+Alt+B Ctrl+Alt+P Ctrl+Alt+P | Cmd+Shift+B Cmd+Shift+I Cmd+Shift+T Cmd+Opt+F7 Cmd+Shift+E Cmd+Shift+B LIX Mac Cmd+Shift+K Cmd+Shift+K Cmd+Shift+K Cmd+Shift+K Cmd+Shift+K Cmd+Shift+K Cmd+Shift+R Cmd+Shift+R Cmd+Shift+P Cmd+Option+I Cmd+Option+R Cmd+Option+T Cmd+Option+P |
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| S NAVIGATE CODE Goto File/Function Fold Selected Unfold Selected Unfold All Unfold All Unfold All Shift Go to line Shift Switch to tab Ctrl+ Frevious tab Next tab Ctrl+ First tab Last tab Navigate back Navigate forward Jump to Brace Use Selection for Find Find in Files Find Next Find Previous W: Sk | Alt+L Alt+O Alt+G Alt+G Alt+J Shift+. **11 **12 Shift+F11 Shift+F12 **19 Shift+Alt+E **3 Shift+F **3, Linux: Ctrl+G **ift+F3, L: **4/* | Mac Ctrl+. Cmd+Shift+Enter Mac Ctrl+. Cmd+Option+L Cmd+Shift+Option+L Cmd+Shift+Option+O Cmd+Shift+Option+O Cmd+Shift+Option+D Ctrl+Shift+. Ctrl+F11 Ctrl+F11 Ctrl+Shift+F11 Ctrl+Shift+F12 Cmd+F9 Cmd+F10 Ctrl+Shift+F10 Cmd+Shift+F10 Cmd+G Cmd+Shift+G Cmd+Shift+G | Insert %>% Show help for function Show source code New document New document (Crome) Open document Save document Close document Close document Close document (Chrome) Close all documents Extract function Extract variable Reindent lines (Un)Comment lines Reflow Comment Reformat Selection Select within braces Show Diagnostics Transpose Letters Move Lines Up/Down Copy Lines Up/Down Add New Cursor Above Add New Cursor Below | Ctrl+Shift+M F1 F2 Ctrl+Shift+N Ctrl+Alt+Shift+N Ctrl+Alt+Shift+N Ctrl+S Ctrl+W Ctrl+Shift+W Ctrl+Alt+W Ctrl+Shift+W Ctrl+Alt+V Ctrl+Shift+C Ctrl+Shift+C Ctrl+Shift+C Ctrl+Shift+C Ctrl+Shift+C Ctrl+Shift+Alt+P Alt+Alt+Alt+D Ctrl+Shift+Alt+P Ctrl+Shift+Alt+D Ctrl+Shift+Alt+D Ctrl+Alt+Down Ctrl+Alt+Shift+Up | Cmd+Shift+M F1 F2 Cmd+Shift+N Cmd+Shift+Opt+N Cmd+O Cmd+S Cmd+W Cmd+Option+W Cmd+Option+V Cmd+Option+V Cmd+Shift+C Cmd+Shift+C Cmd+Shift+C Cmd+Shift+C Cmd+Shift+C Cmd+Shift+C Cmd+Shift+C Cmd+Shift+Opt+P Ctrl+T Option+A-/- | Build and Reload Load All (devtools) Test Package (Desktop) Test Package (Web) Check Package Document Package B DOCUMENTS AND APPS Preview HTML (Markdown, etc.) Knit Document (knitr) Compile Notebook Compile PDF (Tex and Sweave) Insert chunk (Sweave and Knitr) Insert code section Re-run previous region Run current document Run from start to current line Run the current code section Run previous Sweave/Rmd code Run the current chunk Run the next chunk Sync Editor & PDF Preview | Ctrl+Shift+B Ctrl+Shift+L Ctrl+Shift+F Ctrl+Shift+E Ctrl+Shift+W indows/Linu Ctrl+Shift+K Ctrl+Shift+K Ctrl+Shift+K Ctrl+Shift+K Ctrl+Shift+K Ctrl+Shift+R Ctrl+Shift+R Ctrl+Shift+P Ctrl+Alt+B Ctrl+Alt+B Ctrl+Alt+B Ctrl+Alt+Ctrl+ | Cmd+Shift+B Cmd+Shift+I Cmd+Shift+T Cmd+Opt+F7 Cmd+Shift+E Cmd+Shift+B LIX Mac Cmd+Shift+K Cmd+Shift+K Cmd+Shift+K Cmd+Shift+K Cmd+Shift+K Cmd+Shift+R Cmd+Option+I Cmd+Shift+R Cmd+Option+B Cmd+Option+B Cmd+Option+B Cmd+Option+C Cmd+Cmd+C Cmd+Cmd+C Cmd+Cmd+C Cmd+C |
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Comandos rápidos



Paso 1: Escriba 2 + 2

Paso 2: Oprima Ctrl+Enter

Paso 3: Oprima Ctrl+L

Programación básica

```
2 + 2
sqrt(9)
log(10)
```

Ingreso de expresiones

■ Operador de asignación <-

```
Shortcut: Alt + - (tecla menos) inserta asignaciones
```

```
x <- 1
print(x)
x
msg <- "hola"</pre>
```

- La gramática del lenguaje determina si una expresión está completa o no
- Comentarios con #

```
# este es un comentario
```

Evaluación de expresiones

■ Ingreso, evaluación, resultado impreso (autoprint)

```
x <- 5 # nada se imprime
x # auto-printing
print(x) # print explícito</pre>
```

Secuencia de números

```
y <- 11:40
y
```

Tipos de datos

Clases básicas o **atómicas** de objetos

- character
- numeric (números reales)
- integer
- complex
- logical (true/false)

Vectores y listas

- vector objetos de la misma clase
- list objetos de diferente clase

Tipos de datos

| Tipo de dato | Descripción | Definición |
|-----------------|--|--|
| Numeric | Números decimales | numero <- 1.0 |
| Integer | Números enteros | int <- 1 |
| Character | Cadenas de texto | str <- "un texto" |
| Complex | Números complejos | comp <- 3+2i |
| Logical | Verdadero (TRUE) o falso (FALSE). Es a menudo el resultado de operaciones lógicas. | a <- 1; b <- 2; a < b |
| Factor | Este no es estrictamente un tipo de dato, pero vale la pena describirlo aquí. Una variable factor es una variable categórica. Los vectores de caracteres a menudo se almacenan como factores para explotar funciones para tratar datos categóricos. Por ejemplo, en análisis de regresión. | Aplique as.factor() a un vector de caracteres. |

https://bookdown.org/chescosalgado/intro_r/tipos-y-estructuras-de-datos-en-r.html

```
class(x)
typeof(x)
str(x)
```

Comparaciones lógicas

| Operador | Comparación | Ejemplo | Resultado |
|----------|-----------------------|---------|-----------|
| < | Menor que | 5 < 3 | FALSE |
| <= | Menor o igual que | 5 <= 3 | FALSE |
| > | Mayor que | 5 > 3 | TRUE |
| >= | Mayor o igual que | 5 >= 3 | TRUE |
| == | Exactamente igual que | 5 == 3 | FALSE |
| ! = | No es igual que | 5 != 3 | TRUE |

Conversión entre tipos

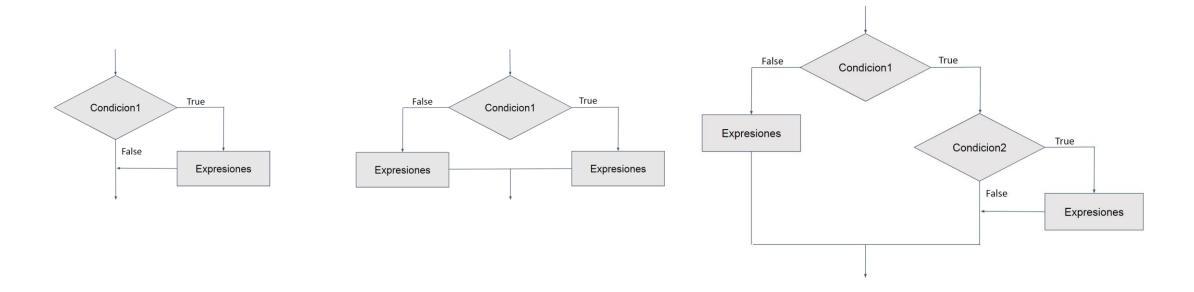
■ Funciones para hacer casting entre tipos de variables

```
x <- 6
class(x)
as.numeric(x)
as.logical(x)
as.character(x)</pre>
```

■ ¿Qué pasa cuando no hay forma razonable de transformar los datos?

```
x <- "a"
as.numeric(x)
as.logical(x)
as.complex(x)</pre>
```

Instrucciones condicionales



Instrucciones condicionales

```
x <- runif(1,0,10)
```

```
if(<condition>) {
## hacer algo
} else {
## hacer algo diferente
}
```

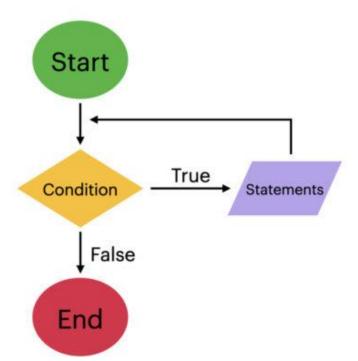
```
if(<condition>) {
## hacer algo
} else {
## hacer algo diferente
}
```

```
if(<condition1>) {
## hacer algo
} else if(<condition2>) {
## hacer algo diferente
} else {
## hacer algo diferente
}
```

Ciclos

For Loop Start No Last Statements Item? Yes End

While Loop



Ciclos

En R, los ciclos for toman una variable iteradora y le asignan valores sucesivos de una secuencia o vector.

Los ciclos for se usan más comúnmente para iterar sobre los elementos de un objeto (lista, vector, etc.)

```
for(i in 1:10) {
   print(i)
}
```

Ciclos

Los ciclos while inician verificando una condición, si se cumple, su bloque de código se ejecuta. Una vez ejecutado, se vuelve a verificar, y así sucesivamente hasta que la condición evalúa a falso.

```
count <- 0
while(count < 10) {
    print(count)
    count <- count + 1
}</pre>
```

Funciones

Forma de dar nombre a un bloque de código para agruparlo y reutilizarlo

```
saludar <- function()
{
   print("hola")
}
saludar()</pre>
```

Sin retorno

```
sumar_dos <-
function(numero) {
  return(numero + 2)
}
sumar_dos(4)</pre>
```

Con retorno

Gracias por tu asistencia y participación ©

Contacto

in https://www.linkedin.com/in/miguel-orjuela/

https://github.com/maorjuela73

Links de interés

- https://r4ds.had.co.nz/
- https://bookdown.org/chescosalgado/intro_r/