

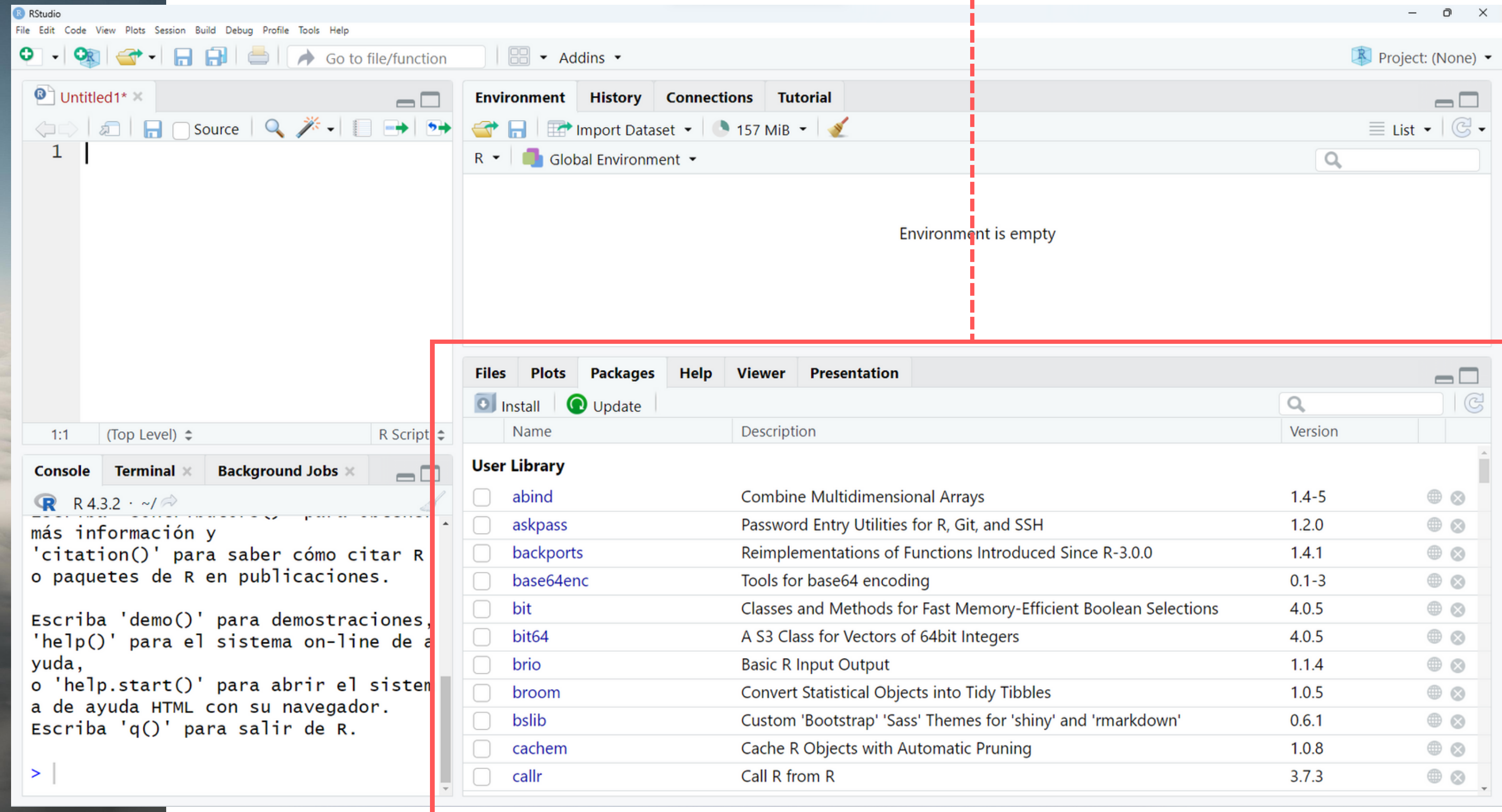
VIERNES DE BIOINFORMÁTICA

- **Instalación de paquetes en R con `pacman::p_load`**
- **¿Por qué no es buena idea usar loops en R?**
- **Creación de tus propias funciones en R**

Viernes 01 Marzo

- Instalación básica de Paquetes en RStudio

El panel “packages” es tu mejor amigo



- Vamos a instalar “cowsay”

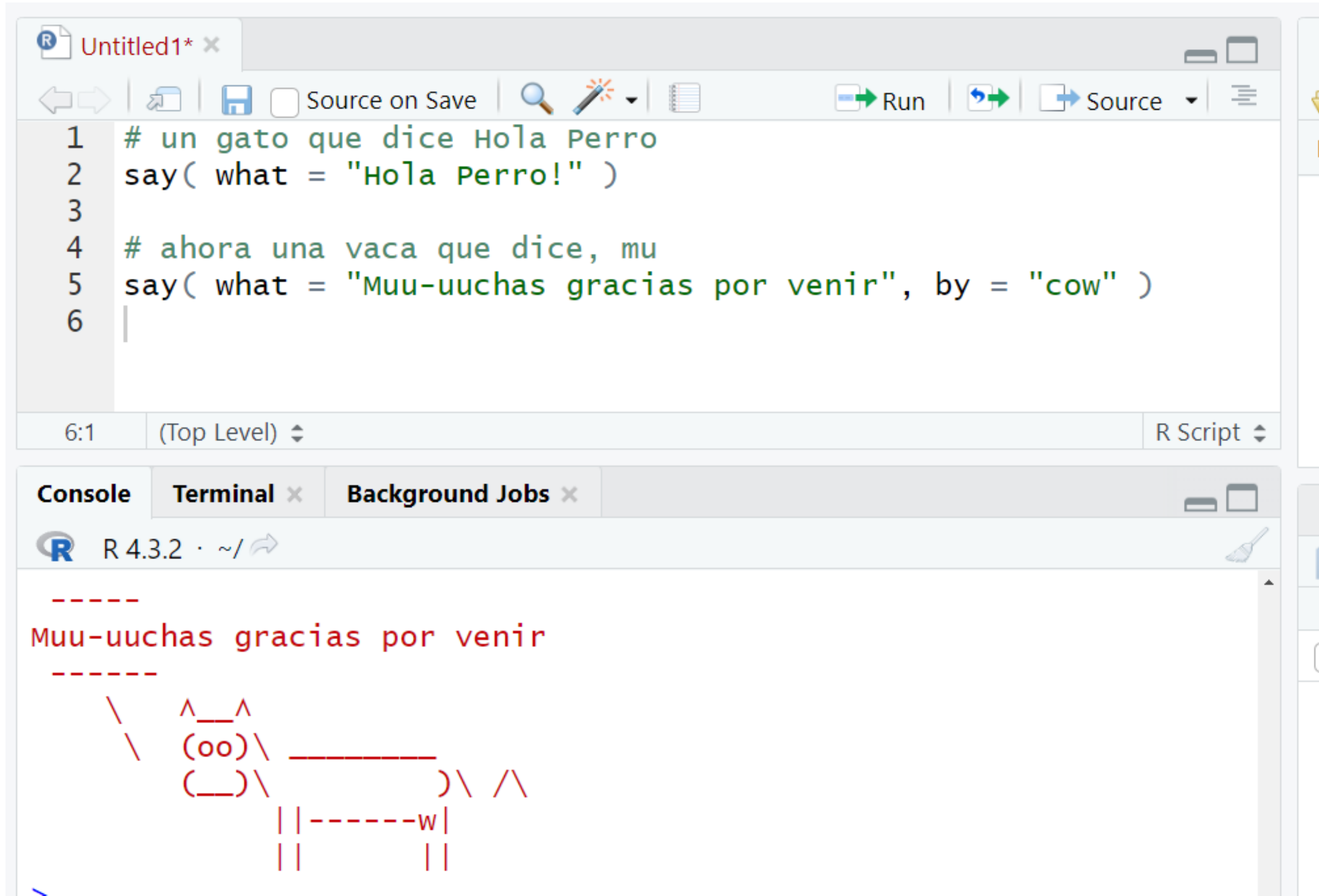
The image shows the RStudio interface with the 'Install Packages' dialog box open. The dialog box has the following fields:

- Install from:** Repository (CRAN) (with a link to 'Configuring Repositories')
- Packages (separate multiple with space or comma):** cowsay
- Install to Library:** C:/Users/iaguilar/AppData/Local/R/win-library/4.3 [Default]
- ☒ Install dependencies
- Buttons:** Install, Cancel

The background shows the RStudio 'Packages' pane with a list of installed and available packages. A red arrow points from the 'Install' button in the dialog box to the 'cowsay' package in the list.

Name	Description	Version
abind		
askpass		
backports		
base64enc		
bit		
bit64		
brio	Basic R Input Output	
broom	Convert Statistical Objects into Tidy Tibbles	
bslib	Custom 'Bootstrap' 'Sass' Themes for 'shiny' and 'rmarkdown'	
cachem	Cache R Objects with Automatic Pruning	
callr	Call R from R	
cowsay	Messages, Warnings, Strings with Ascii Animals	0.9.0

Ahora lo usamos



The screenshot shows the RStudio environment. The top pane displays an R script with the following code:

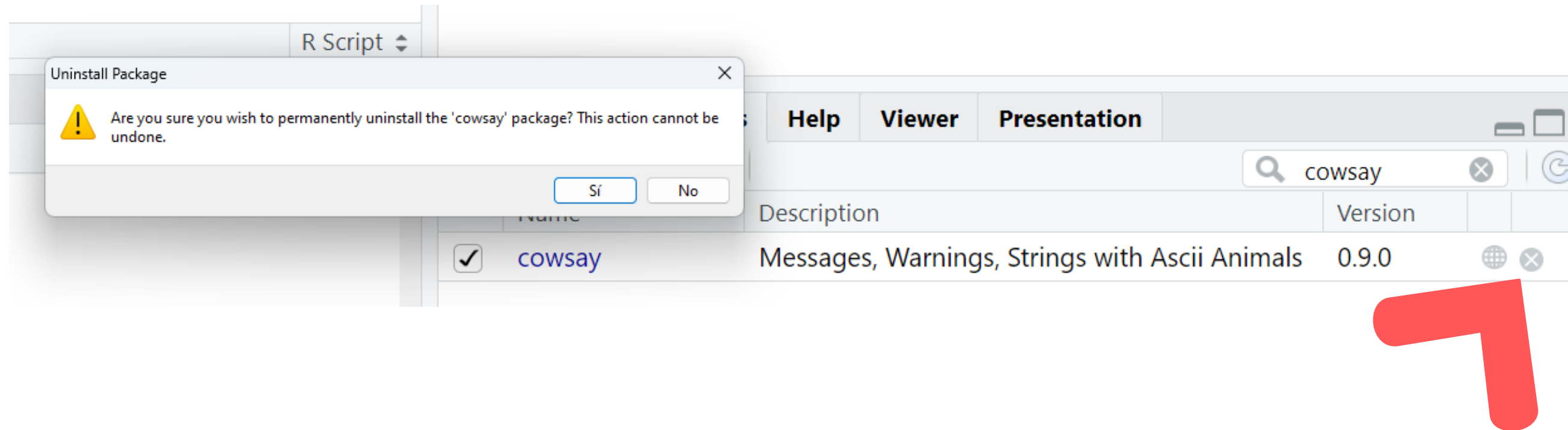
```
1 # un gato que dice Hola Perro
2 say( what = "Hola Perro!" )
3
4 # ahora una vaca que dice, mu
5 say( what = "Muu-uuchas gracias por venir", by = "cow" )
6 |
```

The bottom pane shows the console output for the second command:

```
-----
Muu-uuchas gracias por venir
-----
      \  ^__^
      \  (oo)\_______
          (__)\\       )\/
              ||----w |
              ||     ||
```

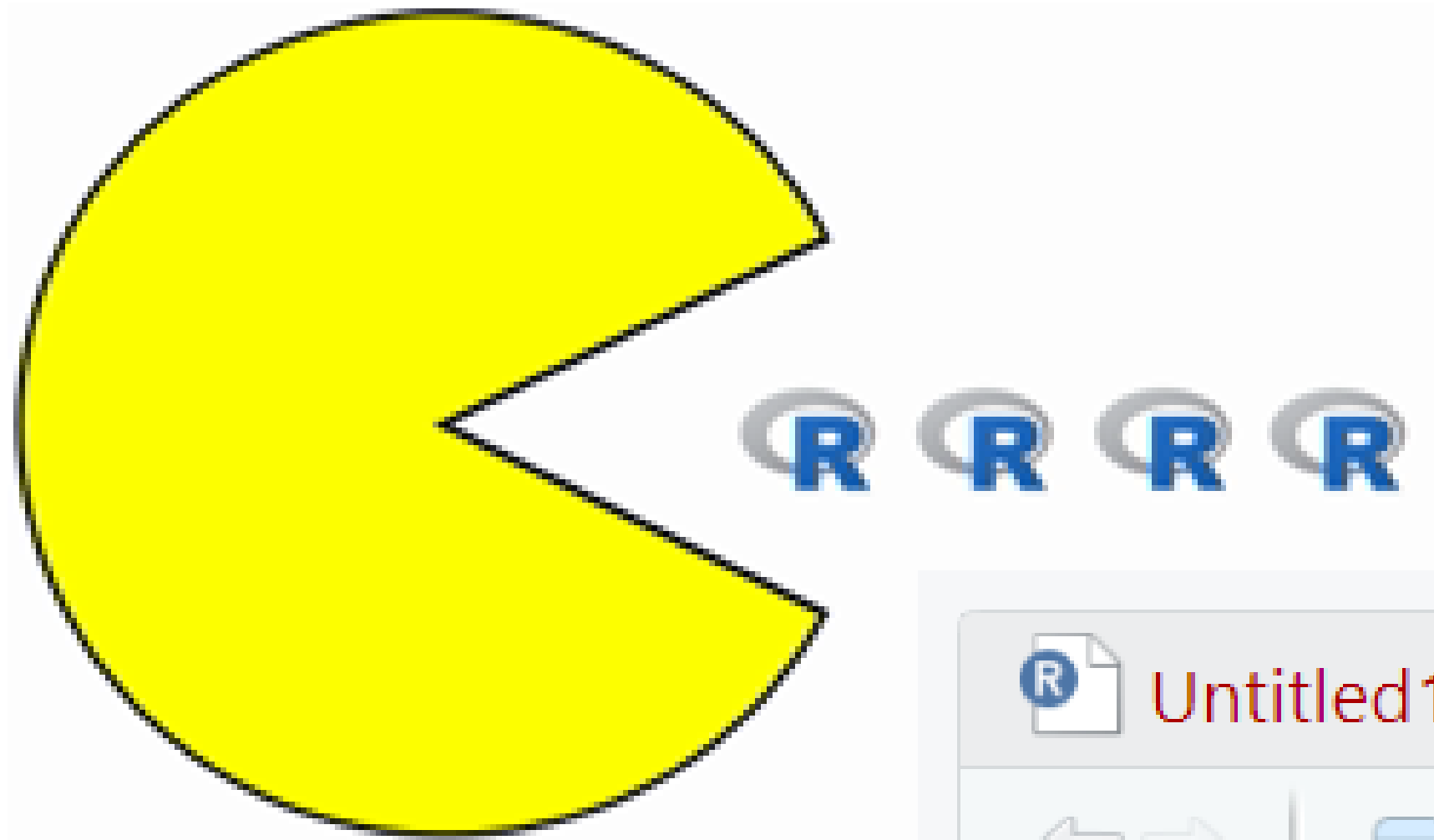
The console also shows the R version (R 4.3.2) and the current directory (~/).

Desinstalamos el paquete cowsay



```
Removing package from 'C:/Users/iaguilar/AppData/Local/R/win-libra  
ry/4.3'  
(as 'lib' is unspecified)  
> |
```

**El paquete pacman se encarga de revisar si ya tienes instalado
un paquete y si no, lo instala y lo carga**



```
1 install.packages( "pacman" )
2
3 pacman::p_load( "cowsay" )
4
```


Los paquetes del mundo Bio-logo



Installation

To install this package, start R (version "4.3") and enter:

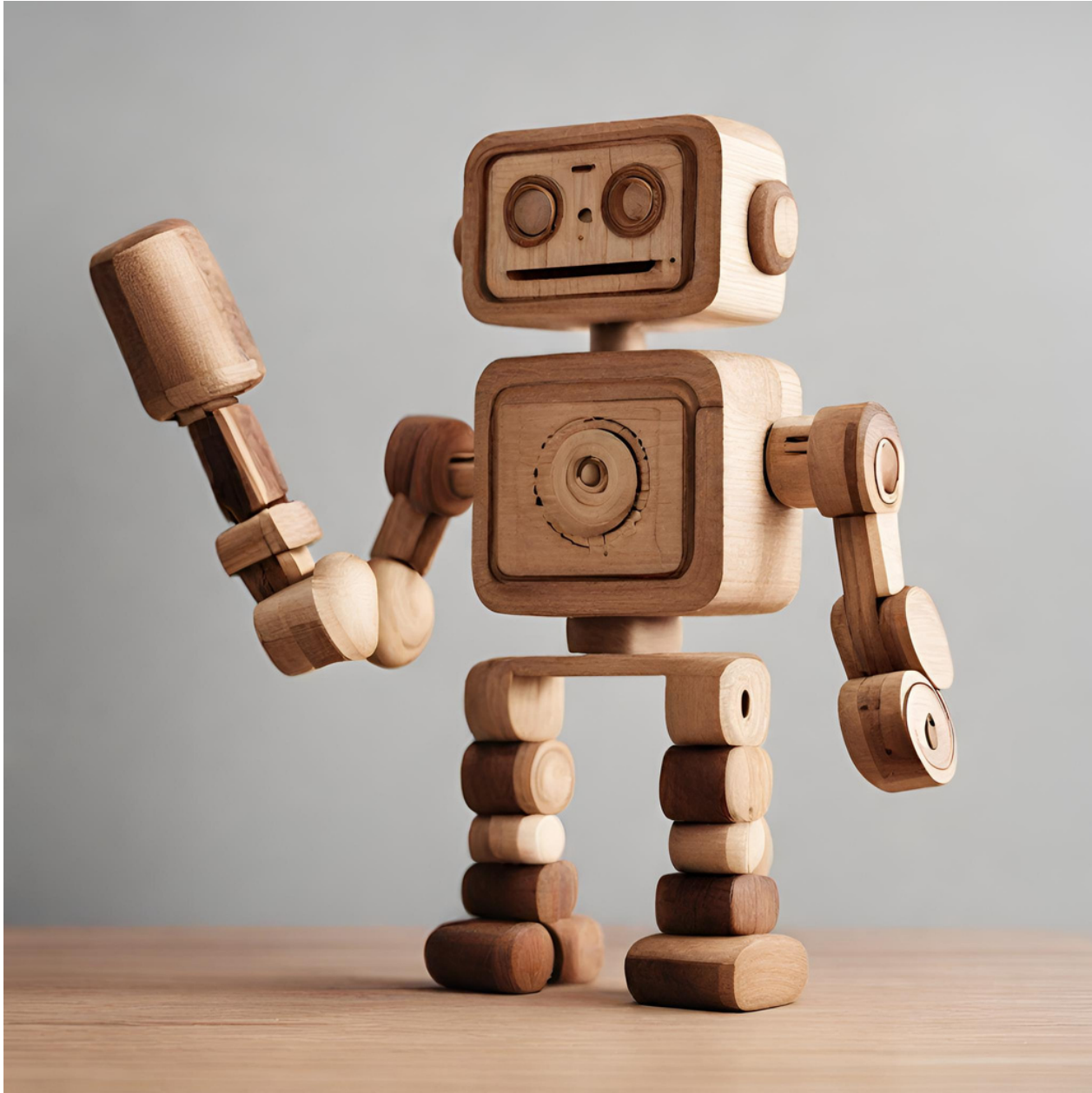
```
if (!require("BiocManager", quietly = TRUE))  
  install.packages("BiocManager")  
  
BiocManager::install("DESeq2")
```



pacman puede funcionar con BiocManager

```
5 pacman::p_load( "BiocManager" )  
6  
7 pacman::p_load( "DESeq2", try.bioconductor = TRUE )  
8
```


¿Por qué no se recomienda usar loops en R?



**Porque hay alternativas
más rápidas**

