# Getting to know the code editor

What is R?
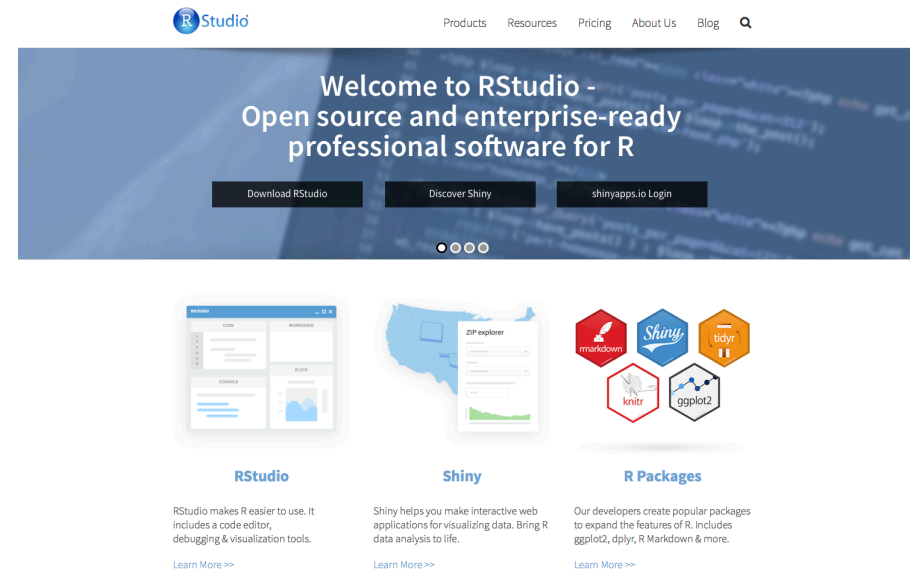# The R Project for Statistical Computing

- R is a high-level programming language.

- R is also a software environment for statistical computing and graphics that interprets the R language and provides two ways to perform analyses:

  1. R console

  2. Simple R editor

➢ However, separate windows for the console, coding window, and graphic device can get confusing.
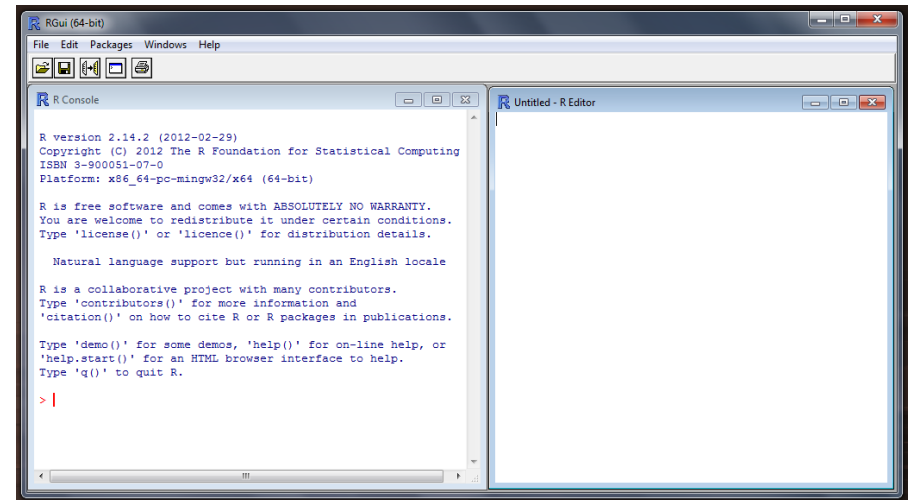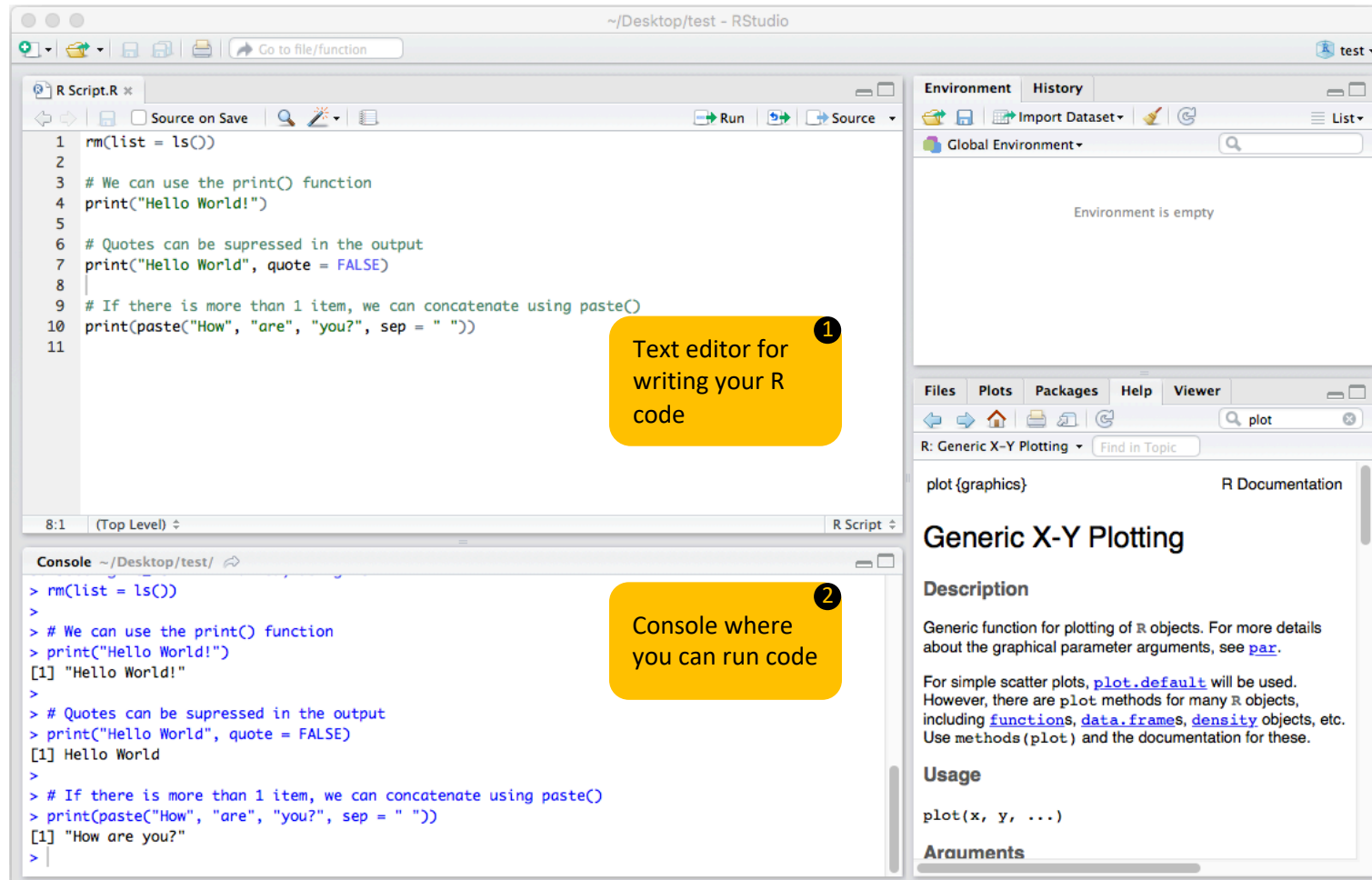
What is RStudio?
RStudio is an open-source IDE for R

- RStudio is an **I**ntegrated **D**evelopment **E**nvironment (**IDE**):

- It provides tools to write

  faster, better R code:

  - R Console

  - Enhanced editor

  - Workspace manager

  - Debugging Tool

- Available for many operating systems

- Desktop & Server version

What is RStudio?
RStudio makes it easy to write R code

- 1 Text editor for writing your R code
- 2 Console where you can run code

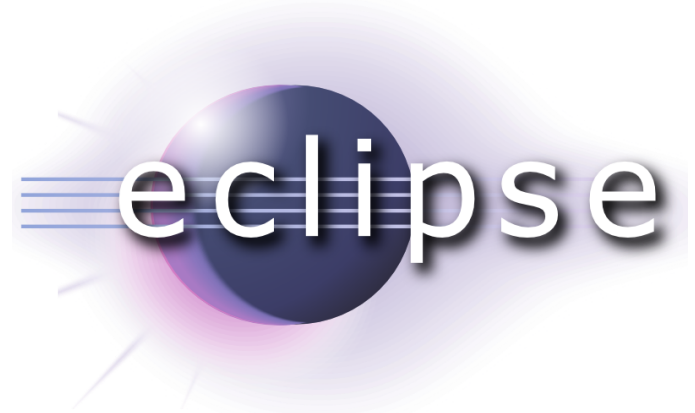# What is RStudio?
RStudio makes it easy to write R code

What is RStudio?
If you don't like RStudio, alternatives exist

Other R compatible IDEs include:

1. Visual Studio / Eclipse

2. Text editors, e.g.:

   ▪ Visual Studio Code

   ▪ Sublime

   ▪ Emacs

   ▪ TextWrangler

3. R-Commander / ...

Alternative R distributions such as Microsoft R Open can make your life easier

- Instead of the standard R distribution (https://www.r-project.org/), you can use an alternative R distribution such as Microsoft R Open. These make the installation process and access to additional functionalities easier.

- Microsoft R Open (https://mran.microsoft.com/open), for example, includes additional capabilities for improved performance and reproducibility.
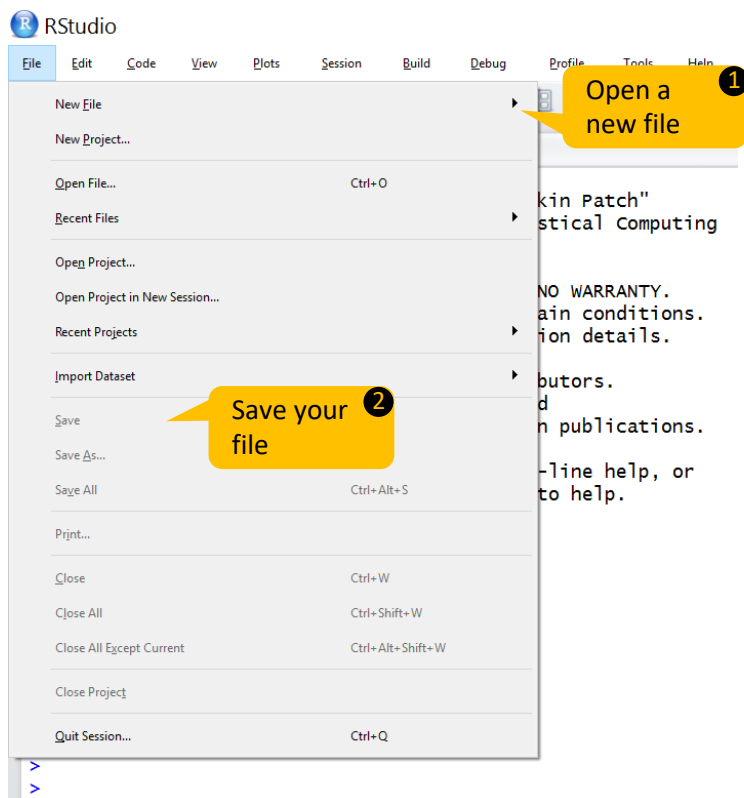
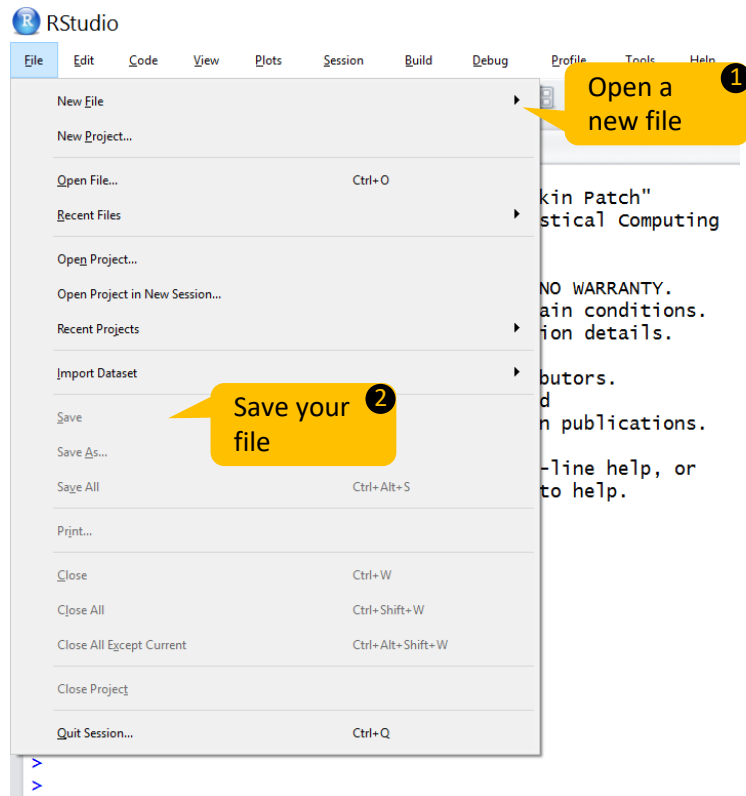# Use the code editor in RStudio to run R code
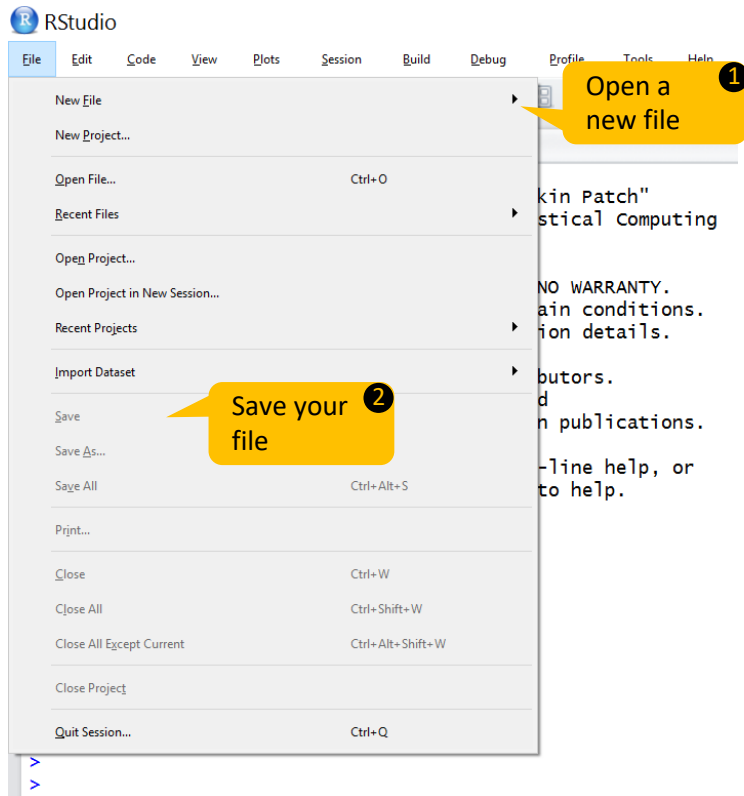
Use the code editor in RStudio to run R code

Write and run the following code:

```
print("This is my first
      line of code.")
```
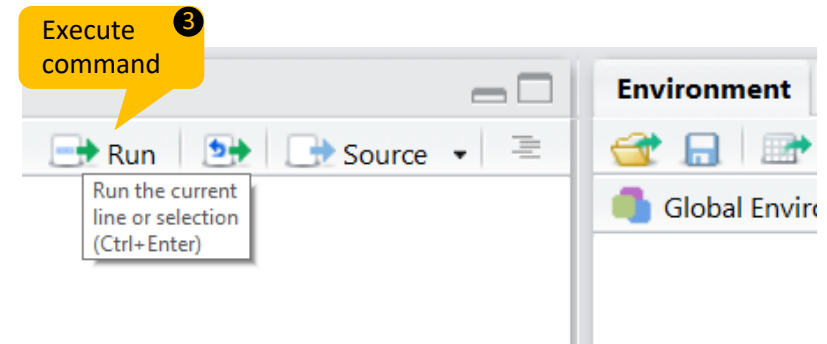
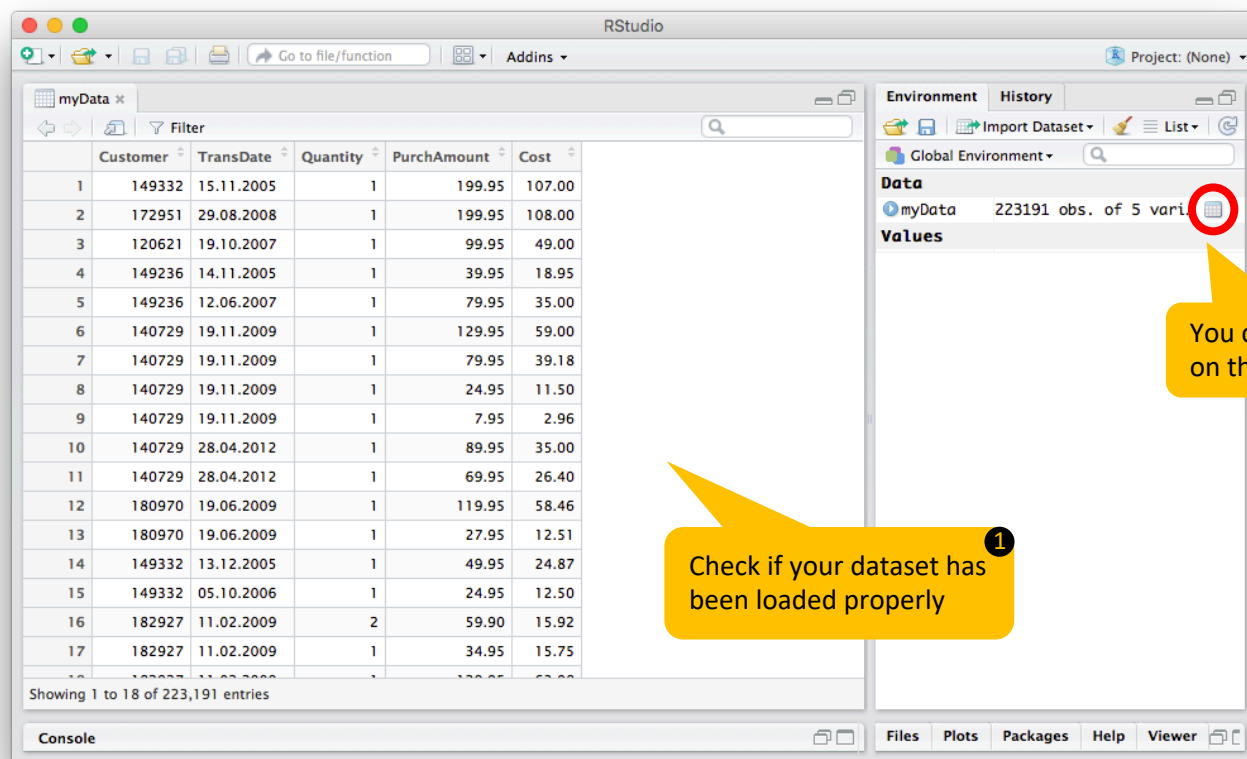# Use the code editor in RStudio to run R code

Write and run the following code:

```
print("This is my first
         line of code.")
```

Run your code (and watch what happens in the console):

➢ To run the entire script: Ctrl+Alt+R

RStudio offers further functionalities

`View(myData)`

Getting to know the code editor