

RStudio Quick Start Guide

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16 July 2014

RStudio Server is a web-based interface for running R commands on a server. RStudio Server displays code, results of code execution, plots, and R help in one user interface.

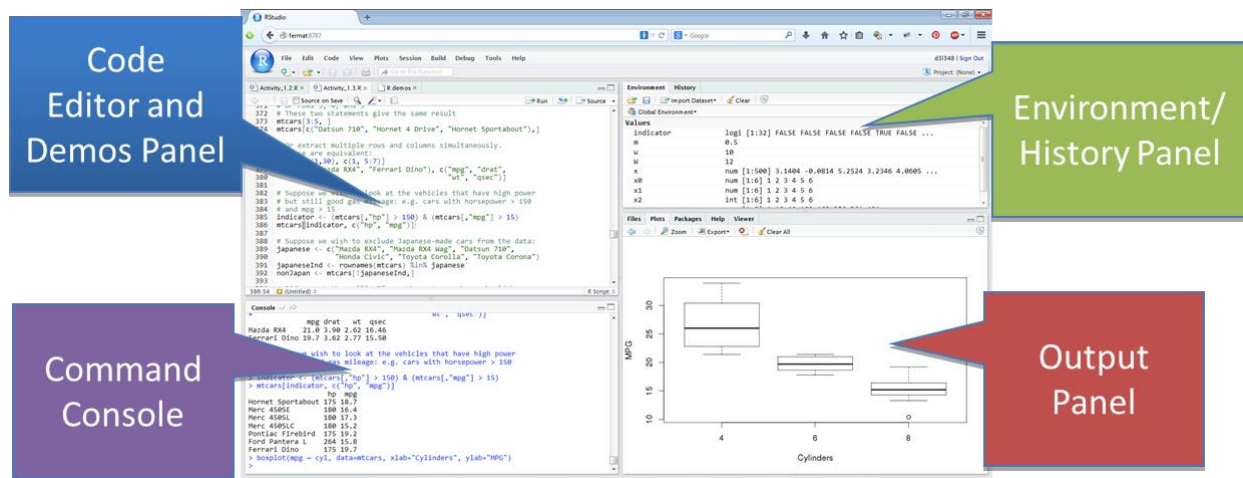


Figure 1: RStudio Interface

RStudio Server opens with 4 standard panels: They are

- **Demos/Code Editor Panel:** page 2
- **Command Console:** page 3
- **Environment/History Panel:** page 4
- **Output Panel:** page 5

RStudio Short Cuts:

- **Highlight → Control-Enter:** Run command(s) from History or R Script file in **Command Console** Window.
- **Tab Key:** Start a command in the **Command Console** or **Code Editor** window and use the 'Tab' key to both finish the command and determine the correct arguments. Similar to code completion tools in other Integrated Design Environments (IDEs).

- **Control-1, Control-2, Control-3, ...:** Used to move around the RStudio windows. Control-1 is the **Code Editor** window, Control-2 is the **Command Console** Window, Control-3 is the **Help Window**, etc... Order shown under View Menu Item
- (**↓↑**): You can use the arrow keys (**↑↓**) on the keyboard to scroll back to previous commands in the **Command Console** Window.

Code Editor/Demo Panel

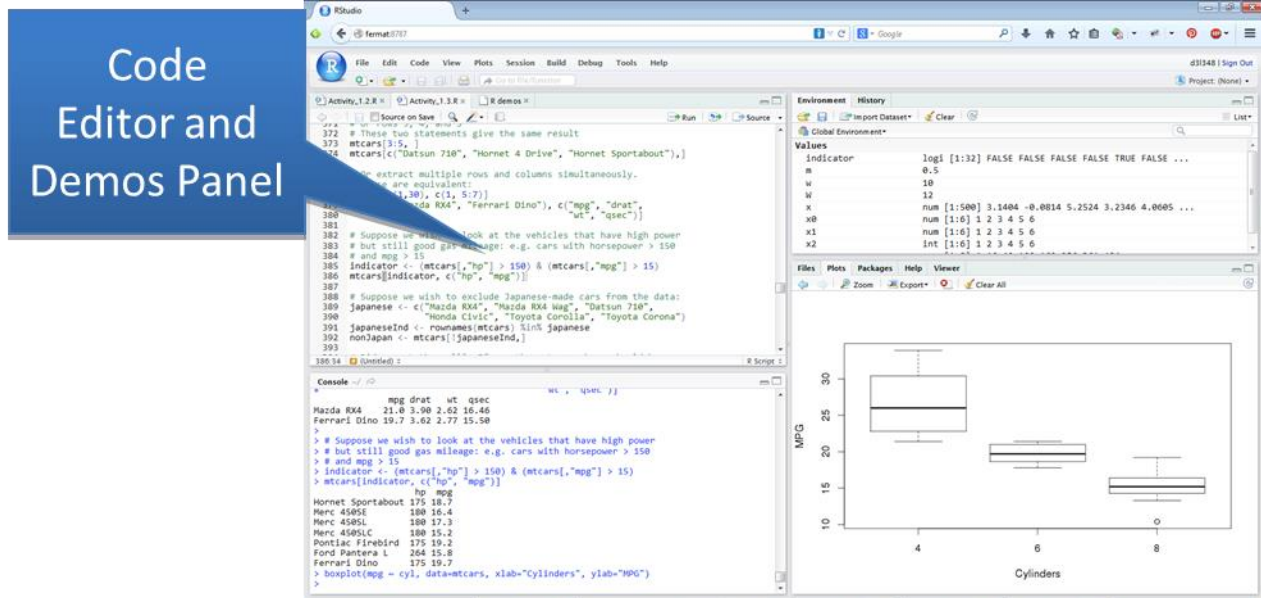


Figure 2: Code Editor/Demo Panel in RStudio

Code Editor/Demo Panel has the following tabs:

- **Code Editor Tab(s):** One or more R script files may be open for editing.
- **Demo Tab:** Panel which shows all available demos including the command line(s) to run the demo. (Type `demo()` at the command line to see this.)

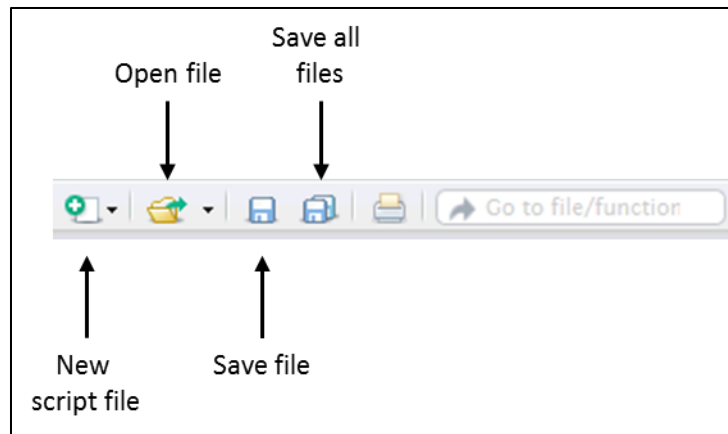


Figure 3: Code Editor Command Buttons

Command Console

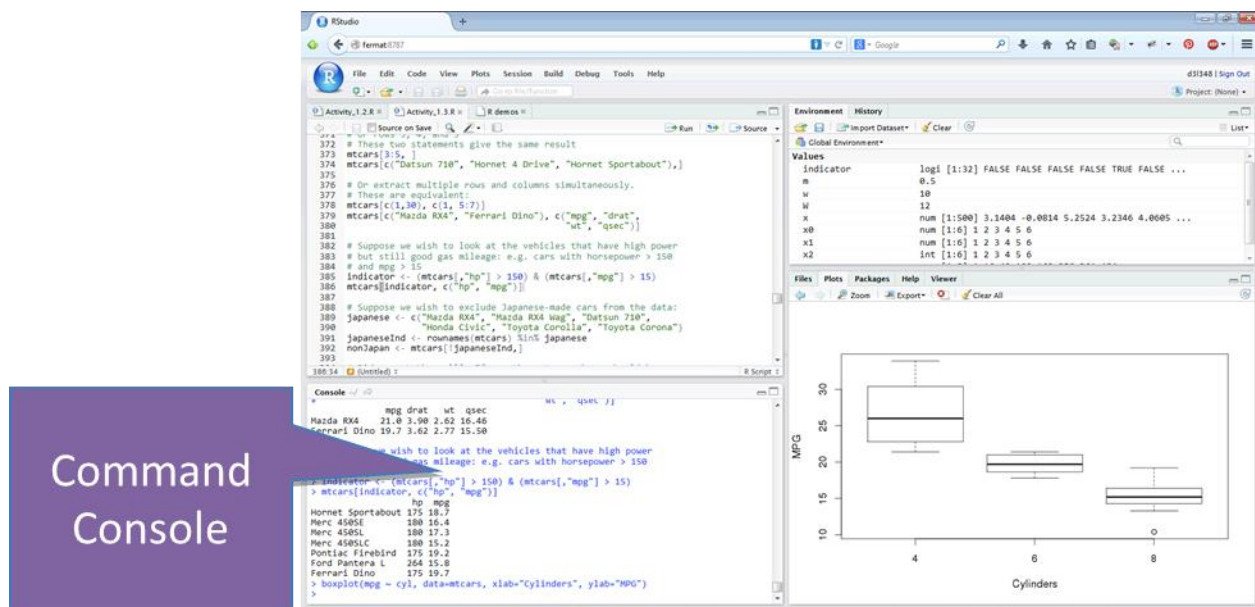


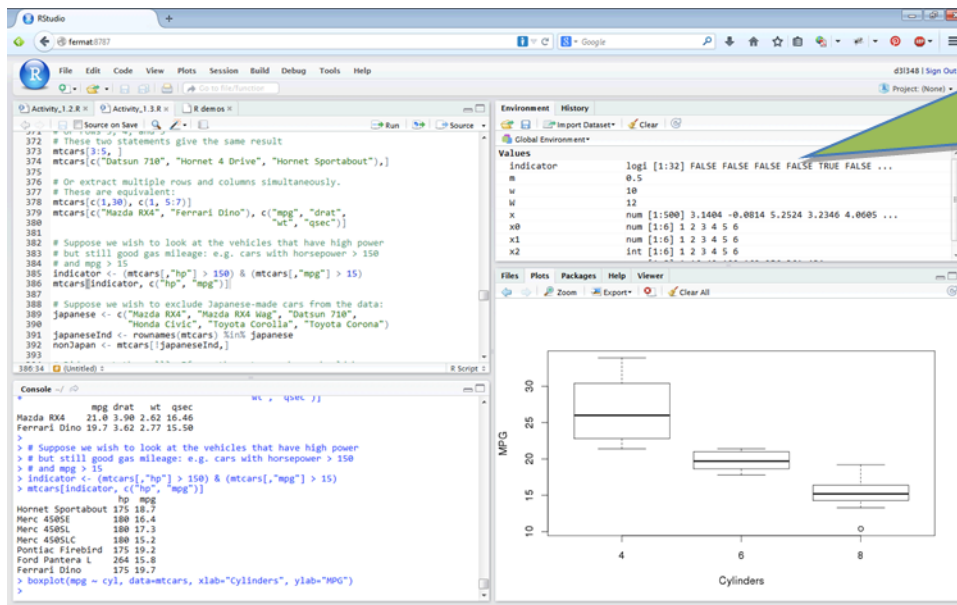
Figure 4: Command Console in RStudio

Command Console:

- Panel where all R commands are run and results are shown
- To execute a command:
 - Type command here and hit Return, or
 - Select command in the **Code Editor Panel** and hit Ctrl-Enter (Cmd-Enter for Mac)
- Many commands will show results below command (e.g. **head()** or **str()**);

- Graphical (i.e. plots) will be shown in the **Output Panel** under the **Plots Tab** (see below)

Environment/History Panel



Environment/History Panel

Figure 5: Environment/History Panel in RStudio

Environment/History Panel has the following tabs:

- **Environment Tab:** shows variables created in this session as well as functions and datasets in each library loaded
- **History Tab:** shows all previous commands and allows the user to
 - Rerun them using the 'To Console' button at the top window
 - Insert previously executed commands at the cursor location in an open R script file using the 'To Source' button
 - Save previous commands to an R script file

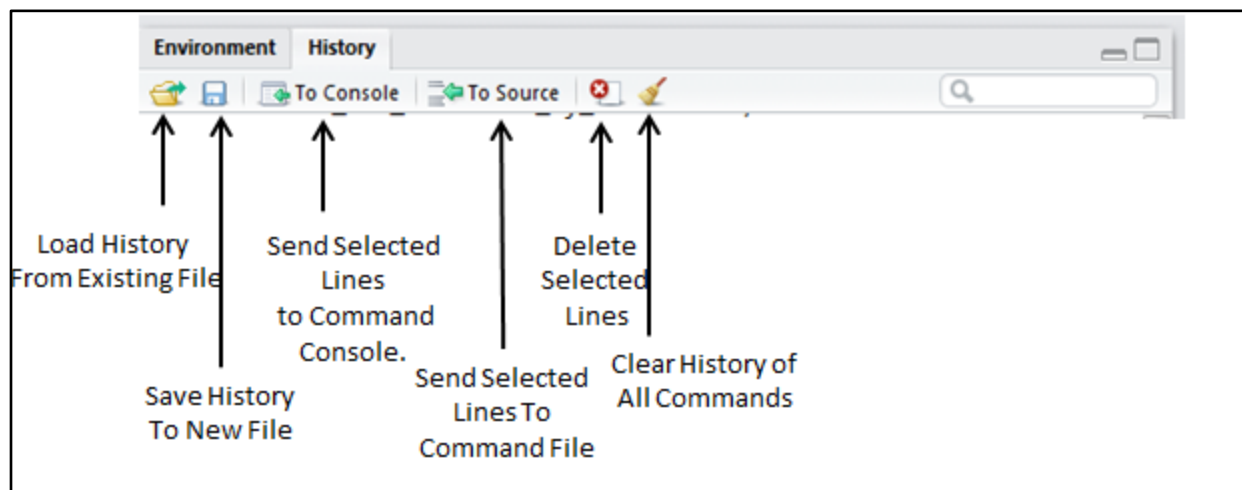


Figure 6: History Panel Command Bar

Output Panel

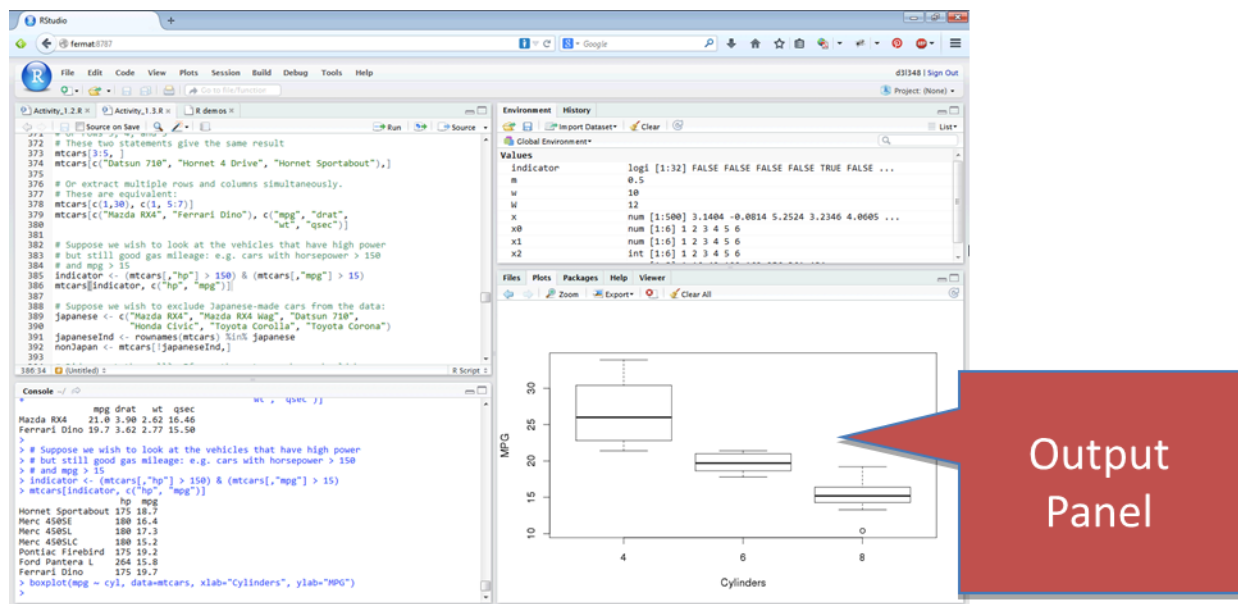


Figure 7: Output Panel in RStudio

Output Panel has the following tabs, left to right:

- **Files Tab:** shows all files/folders in the current working directory
- **Plots Tab:** shows all plots created during the current user session (see Plots Tab figure below)
- **Packages Tab:** shows all the packages installed and available for installation at CRAN
- **Help Tab:** help content from R. (i.e. `help("topic")`)

- **Viewer tab:** shows local web content including local html content

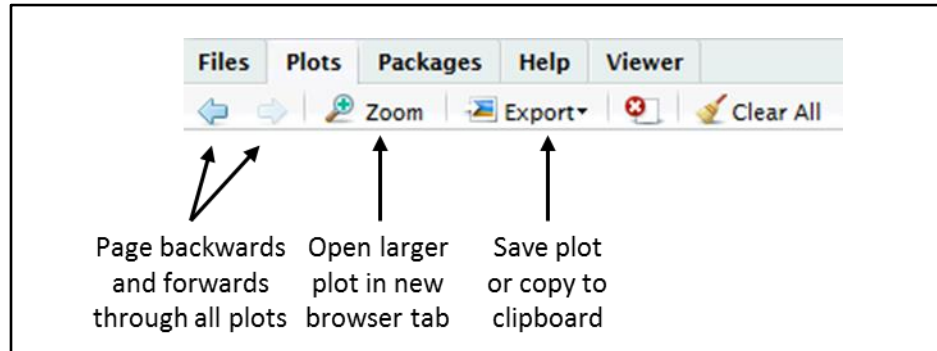


Figure 8: Plots Tab Command Bar