

RStudio IDE Cheat Sheet

learn more at www.rstudio.com



The RStudio IDE is an Integrated Development Environment in R that comes in three versions



Desktop IDE

A local version of the IDE for your desktop



Open Source Server

for larger compute resources and remote access



Professional Server

for teams that share large compute resources, large data, and uniform environments for collaboration

Download all at www.rstudio.com. Each provides the same useful interface:

Documents and Apps

Open Shiny, R Markdown, knitr, Sweave, LaTeX, .Rd files and more in Source Pane

Check spelling, Render output, Choose output format, Choose output location, Insert code chunk

Jump to previous chunk, Jump to next chunk, Run selected lines, Publish to server, Show file outline

Access markdown guide at **Help > Markdown Quick Reference**

Jump to chunk, Set knitr chunk options, Run this and all previous code chunks, Run this code chunk

RStudio recognizes that files named **app.R**, **server.R**, **ui.R**, and **global.R** belong to a shiny app

Run app, Choose location to view app, Publish to shinyapps.io or server, Manage publish accounts

Write Code

Navigate tabs, Open in new window, Save, Find and replace, Compile as notebook, Run selected code

Multiple cursors/column selection with **Alt + mouse drag**

Code diagnostics that appear in the margin. Hover over diagnostic symbols for details.

Syntax highlighting based on your file's extension

Tab completion to finish function names, file paths, arguments, and more.

Multi-language code snippets to quickly use common blocks of code.

Jump to function in file

Change file type

Working Directory

Press **↑** to see command history

Maximize, minimize panes

Drag pane boundaries

R Support

Import data file with wizard

History of past commands to run/add to source

Display .Rpres slideshows

File > New File > R Presentation

Load workspace, Save workspace, Delete all saved objects, Search inside environment

Choose environment to display from list of parent environments

Display objects as list or grid

Displays saved objects by type with short description

View in data viewer, View function source code

Create folder, Upload file, Delete file, Rename file

Path to displayed directory

A File browser keyed to your working directory. Click on file or directory name to open.

Change directory

RStudio Pro Features

Share Project with Collaborators...

Active shared collaborators

Start new R Session in current project

Close R Session in project

Select R Version

R version 3.2.2, R version 3.1.3, R version 3.0.3, R version 2.15.3

Project System

File > New Project

RStudio saves the call history, workspace, and working directory associated with a project. It reloads each when you re-open a project.

Name of current project

RStudio opens plots in a dedicated Plots pane

Navigate recent plots, Open in window, Export plot, Delete plot, Delete all plots

GUI Package manager lists every installed package

Install Packages, Update Packages, Create reproducible package library for your project

Click to load package with **library()**. Unclick to detach package with **detach()**

Package version installed, Delete from library

RStudio opens documentation in a dedicated Help pane

Home page of helpful links, Search within help file, Search for help file

Viewer Pane displays HTML content, such as Shiny apps, RMarkdown reports, and interactive visualizations

Stop Shiny app, Publish to shinyapps.io, rpubs, RSConnect, ..., Refresh

Debug Mode

Open with **debug()**, **browse()**, or a breakpoint. RStudio will open the debugger mode when it encounters a breakpoint while executing code.

Click next to line number to add/remove a breakpoint.

Highlighted line shows where execution has paused

Run commands in environment where execution has paused

Examine variables in executing environment

Select function in traceback to debug

Launch debugger mode from origin of error

Open traceback to examine the functions that R called before the error occurred

Step through code one line at a time

Step into and out of functions to run

Resume execution mode

Quit debug

Version Control with Git or SVN

Turn on at **Tools > Project Options > Git/SVN**

Stage files, Show file diff, Commit staged files, Push/Pull to remote, View History

Added, Deleted, Modified, Renamed, Untracked

Open shell to type commands

current branch

Package Writing

File > New Project > New Directory > R Package

Turn project into package, Enable roxygen documentation with **Tools > Project Options > Build Tools**

Roxygen guide at **Help > Roxygen Quick Reference**

View(<data>)

opens spreadsheet like view of data set

	Sepal.Length	Sepal.Width	Petal.Length	Petal.Width	Species
1	5.1	3.5	1.4	0.2	setosa
2					
3					
4					

Filter rows by value or value range

Sort by values

Search for value

1 LAYOUT			4 WRITE CODE			5 DEBUG CODE		
	Windows/Linux	Mac		Windows /Linux	Mac		Windows/Linux	Mac
Move focus to Source Editor	Ctrl+1	Ctrl+1	Attempt completion	Tab or Ctrl+Space	Tab or Cmd+Space	Toggle Breakpoint	Shift+F9	Shift+F9
Move focus to Console	Ctrl+2	Ctrl+2	Navigate candidates	↑/↓	↑/↓	Execute Next Line	F10	F10
Move focus to Help	Ctrl+3	Ctrl+3	Accept candidate	Enter, Tab, or →	Enter, Tab, or →	Step Into Function	Shift+F4	Shift+F4
Show History	Ctrl+4	Ctrl+4	Dismiss candidates	Esc	Esc	Finish Function/Loop	Shift+F6	Shift+F6
Show Files	Ctrl+5	Ctrl+5	Undo	Ctrl+Z	Cmd+Z	Continue	Shift+F5	Shift+F5
Show Plots	Ctrl+6	Ctrl+6	Redo	Ctrl+Shift+Z	Cmd+Shift+Z	Stop Debugging	Shift+F8	Shift+F8
Show Packages	Ctrl+7	Ctrl+7	Cut	Ctrl+X	Cmd+X			
Show Environment	Ctrl+8	Ctrl+8	Copy	Ctrl+C	Cmd+C			
Show Git/SVN	Ctrl+9	Ctrl+9	Paste	Ctrl+V	Cmd+V			
Show Build	Ctrl+0	Ctrl+0	Select All	Ctrl+A	Cmd+A			
2 RUN CODE			Delete Line	Ctrl+D	Cmd+D			
	Windows/Linux	Mac	Select	Shift+[Arrow]	Shift+[Arrow]			
Search command history	Ctrl+↑	Cmd+↑	Select Word	Ctrl+Shift+ ←/→	Option+Shift+ ←/→			
Navigate command history	↑/↓	↑/↓	Select to Line Start	Alt+Shift+←	Cmd+Shift+←			
Move cursor to start of line	Home	Cmd+←	Select to Line End	Alt+Shift+→	Cmd+Shift+→			
Move cursor to end of line	End	Cmd+→	Select Page Up/Down	Shift+PageUp/Down	Shift+PageUp/Down			
Change working directory	Ctrl+Shift+H	Ctrl+Shift+H	Select to Start/End	Shift+Alt+↑/↓	Cmd+Shift+↑/↓			
Interrupt current command	Esc	Esc	Delete Word Left	Ctrl+Backspace	Ctrl+Opt+Backspace			
Clear console	Ctrl+L	Ctrl+L	Delete Word Right		Option+Delete			
Quit Session (desktop only)	Ctrl+Q	Cmd+Q	Delete to Line End		Ctrl+K			
Restart R Session	Ctrl+Shift+F10	Cmd+Shift+F10	Delete to Line Start		Option+Backspace			
Run current line/selection	Ctrl+Enter	Cmd+Enter	Indent	Tab (at start of line)	Tab (at start of line)			
Run current (retain cursor)	Alt+Enter	Option+Enter	Outdent	Shift+Tab	Shift+Tab			
Run from current to end	Ctrl+Alt+E	Cmd+Option+E	Yank line up to cursor	Ctrl+U	Ctrl+U			
Run the current function	Ctrl+Alt+F	Cmd+Option+F	Yank line after cursor	Ctrl+K	Ctrl+K			
Source a file	Ctrl+Shift+O	Cmd+Shift+O	Insert yanked text	Ctrl+Y	Ctrl+Y			
Source the current file	Ctrl+Shift+S	Cmd+Shift+S	Insert <-	Alt+-	Option+-			
Source with echo	Ctrl+Shift+Enter	Cmd+Shift+Enter	Insert %>%	Ctrl+Shift+M	Cmd+Shift+M			
3 NAVIGATE CODE			Show help for function	F1	F1			
	Windows /Linux	Mac	Show source code	F2	F2			
Goto File/Function	Ctrl+.	Ctrl+.	New document	Ctrl+Shift+N	Cmd+Shift+N			
Fold Selected	Alt+L	Cmd+Option+L	New document (Chrome)	Ctrl+Alt+Shift+N	Cmd+Shift+Alt+N			
Unfold Selected	Shift+Alt+L	Cmd+Shift+Option+L	Open document	Ctrl+O	Cmd+O			
Fold All	Alt+O	Cmd+Option+O	Save document	Ctrl+S	Cmd+S			
Unfold All	Shift+Alt+O	Cmd+Shift+Option+O	Close document	Ctrl+W	Cmd+W			
Go to line	Shift+Alt+G	Cmd+Shift+Option+G	Close document (Chrome)	Ctrl+Alt+W	Cmd+Option+W			
Jump to	Shift+Alt+J	Cmd+Shift+Option+J	Close all documents	Ctrl+Shift+W	Cmd+Shift+W			
Switch to tab	Ctrl+Shift+.	Ctrl+Shift+.	Extract function	Ctrl+Alt+X	Cmd+Option+X			
Previous tab	Ctrl+F11	Ctrl+F11	Extract variable	Ctrl+Alt+V	Cmd+Option+V			
Next tab	Ctrl+F12	Ctrl+F12	Reindent lines	Ctrl+I	Cmd+I			
First tab	Ctrl+Shift+F11	Ctrl+Shift+F11	(Un)Comment lines	Ctrl+Shift+C	Cmd+Shift+C			
Last tab	Ctrl+Shift+F12	Ctrl+Shift+F12	Reflow Comment	Ctrl+Shift+/	Cmd+Shift+/			
Navigate back	Ctrl+F9	Cmd+F9	Reformat Selection	Ctrl+Shift+A	Cmd+Shift+A			
Navigate forward	Ctrl+F10	Cmd+F10	Select within braces	Ctrl+Shift+E	Ctrl+Shift+E			
Jump to Brace	Ctrl+P	Ctrl+P	Show Diagnostics	Ctrl+Shift+Alt+P	Cmd+Shift+Alt+P			
Select within Braces	Ctrl+Shift+Alt+E	Ctrl+Shift+Alt+E	Transpose Letters		Ctrl+T			
Use Selection for Find	Ctrl+F3	Cmd+E	Move Lines Up/Down	Alt+↑/↓	Option+↑/↓			
Find in Files	Ctrl+Shift+F	Cmd+Shift+F	Copy Lines Up/Down	Shift+Alt+↑/↓	Cmd+Option+↑/↓			
Find Next	Win: F3, Linux: Ctrl+G	Cmd+G	Add New Cursor Above	Ctrl+Alt+Up	Ctrl+Alt+Up			
Find Previous	W: Shift+F3, L: Ctrl+Shift	Cmd+Shift+G	Add New Cursor Below	Ctrl+Alt+Down	Ctrl+Alt+Down			
Jump to Word	Ctrl+ ←/→	Option+ ←/→	Move Active Cursor Up	Ctrl+Alt+Shift+Up	Ctrl+Alt+Shift+Up			
Jump to Start/End	Ctrl+↑/↓	Cmd+↑/↓	Move Active Cursor Down	Ctrl+Alt+Shift+Down	Ctrl+Alt+Shift+Down			
			Find and Replace	Ctrl+F	Cmd+F			
			Use Selection for Find	Ctrl+F3	Cmd+E			
			Replace and Find	Ctrl+Shift+J	Cmd+Shift+J			
6 VERSION CONTROL			7 MAKE PACKAGES					
	Windows/Linux	Mac		Windows/Linux	Mac			
Show diff	Ctrl+Alt+D	Ctrl+Option+D	Build and Reload	Ctrl+Shift+B	Cmd+Shift+B			
Commit changes	Ctrl+Alt+M	Ctrl+Option+M	Load All (devtools)	Ctrl+Shift+L	Cmd+Shift+L			
Scroll diff view	Ctrl+↑/↓	Ctrl+↑/↓	Test Package (Desktop)	Ctrl+Shift+T	Cmd+Shift+T			
Stage/Unstage (Git)	Spacebar	Spacebar	Test Package (Web)	Ctrl+Alt+F7	Cmd+Alt+F7			
Stage/Unstage and move to next	Enter	Enter	Check Package	Ctrl+Shift+E	Cmd+Shift+E			
			Document Package	Ctrl+Shift+D	Cmd+Shift+D			
8 DOCUMENTS AND APPS				Windows/Linux	Mac			
			Preview HTML (Markdown, etc.)	Ctrl+Shift+K	Cmd+Shift+K			
			Knit Document (knitr)	Ctrl+Shift+K	Cmd+Shift+K			
			Compile Notebook	Ctrl+Shift+K	Cmd+Shift+K			
			Compile PDF (TeX and Sweave)	Ctrl+Shift+K	Cmd+Shift+K			
			Insert chunk (Sweave and Knitr)	Ctrl+Alt+I	Cmd+Option+I			
			Insert code section	Ctrl+Shift+R	Cmd+Shift+R			
			Re-run previous region	Ctrl+Shift+P	Cmd+Shift+P			
			Run current document	Ctrl+Alt+R	Cmd+Option+R			
			Run from start to current line	Ctrl+Alt+B	Cmd+Option+B			
			Run the current code section	Ctrl+Alt+T	Cmd+Option+T			
			Run previous Sweave/Rmd code	Ctrl+Alt+P	Cmd+Option+P			
			Run the current chunk	Ctrl+Alt+C	Cmd+Option+C			
			Run the next chunk	Ctrl+Alt+N	Cmd+Option+N			
			Sync Editor & PDF Preview	Ctrl+F8	Cmd+F8			
			Previous plot	Ctrl+Alt+F11	Cmd+Option+F11			
			Next plot	Ctrl+Alt+F12	Cmd+Option+F12			
			Show Keyboard Shortcuts	Alt+Shift+K	Option+Shift+K			
Why RStudio Server Pro?								
Do everything you would do with the open source server with a commercial license, support, and more.								
<ul style="list-style-type: none"> • edit the same project at the same time as others • switch easily from one version of R to a different version • open and run multiple R sessions simultaneously • see what you and others are doing on your server • tune your resources to improve performance • integrate with your authentication, authorization, and audit practices 								
Download a free 45 day evaluation at www.rstudio.com/products/rstudio-server-pro/								