

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, 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, Working Directory, Press **↑** to see command history, Maximize, minimize panes, Drag pane boundaries, Path to displayed directory, A File browser keyed to your working directory. Click on file or directory name to open

R Support

Import data file with wizard, History of past commands to run/add to source, Display .RPres slideshows **File > New File > R Presentation**, Import Dataset, Global Environment, 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, View in data viewer, View function source code, Displays saved objects by type with short description, Files, Path to displayed directory, A File browser keyed to your working directory. Click on file or directory name to open

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, Name of current project, **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, RStudio opens plots in a dedicated Plots pane, Navigate in 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, ..., View(<data>) opens spreadsheet like view of data set, Filter rows by value or value range, Sort by values, Search for value

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, Turn on at **Tools > Project Options > Git/SVN**, Stage files: Show file diff, Commit, Push/Pull staged files to remote, View History, **G** Stage files: Added, Deleted, Modified, Renamed, Untracked, Show file diff, Commit, Push/Pull staged files to remote, View History, Environment, History, Git, Diff, Status, Commit, Path, file-with-changes.R, Revert..., Ignore..., 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**, Turn project into package, Enable roxygen documentation with **Tools > Project Options > Build Tools**, Roxygen guide at **Help > Roxygen Quick Reference**, Build & RStudio, Load All, Clear and Rebuild, Test Package, Check Package, Build Source Package, Build Binary Package, Document, Configure Build Tools...

Version Control with Git or SVN

Turn on at **Tools > Project Options > Git/SVN**, Stage files: Show file diff, Commit, Push/Pull staged files to remote, View History, **G** Stage files: Added, Deleted, Modified, Renamed, Untracked, Show file diff, Commit, Push/Pull staged files to remote, View History, Environment, History, Git, Diff, Status, Commit, Path, file-with-changes.R, Revert..., Ignore..., 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**, Turn project into package, Enable roxygen documentation with **Tools > Project Options > Build Tools**, Roxygen guide at **Help > Roxygen Quick Reference**, Build & RStudio, Load All, Clear and Rebuild, Test Package, Check Package, Build Source Package, Build Binary Package, Document, Configure Build Tools...

1 LAYOUT		Windows/Linux	Mac	4 WRITE CODE		Windows /Linux	Mac	5 DEBUG CODE		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 →	Enter, Tab, or →	Step Into Function		Shift+F4	Shift+F4
Show History		Ctrl+4	Ctrl+4	Dismiss candidates	Esc	Esc	Esc	Finish Function/Loop		Shift+F6	Shift+F6
Show Files		Ctrl+5	Ctrl+5	Undo	Ctrl+Z	Cmd+Z	Cmd+Z	Continue		Shift+F5	Shift+F5
Show Plots		Ctrl+6	Ctrl+6	Redo	Ctrl+Shift+Z	Cmd+Shift+Z	Cmd+Shift+Z	Stop Debugging		Shift+F8	Shift+F8
Show Packages		Ctrl+7	Ctrl+7	Cut	Ctrl+X	Cmd+X	Cmd+X				
Show Environment		Ctrl+8	Ctrl+8	Copy	Ctrl+C	Cmd+C	Cmd+C				
Show Git/SVN		Ctrl+9	Ctrl+9	Paste	Ctrl+V	Cmd+V	Cmd+V				
Show Build		Ctrl+0	Ctrl+0	Select All	Ctrl+A	Cmd+A	Cmd+A				
2 RUN CODE		Windows/Linux	Mac	5 DEBUG CODE		Windows /Linux	Mac	6 VERSION CONTROL		Windows/Linux	Mac
Search command history		Ctrl+↑	Cmd+↑	Delete Line	Ctrl+D	Cmd+D	Cmd+D	Show diff		Ctrl+Alt+D	Ctrl+Option+D
Navigate command history		↑/↓	↑/↓	Select	Shift+[Arrow]	Shift+[Arrow]	Shift+[Arrow]	Commit changes		Ctrl+Alt+M	Ctrl+Option+M
Move cursor to start of line		Home	Cmd+←	Select Word	Ctrl+Shift+←→	Option+Shift+←→	Option+Shift+←→	Scroll diff view		Ctrl+↑/↓	Ctrl+↑/↓
Move cursor to end of line		End	Cmd+→	Select to Line Start	Alt+Shift+←	Cmd+Shift+←	Cmd+Shift+←	Stage/Unstage (Git)		Spacebar	Spacebar
Change working directory		Ctrl+Shift+H	Ctrl+Shift+H	Select to Line End	Alt+Shift+→	Cmd+Shift+→	Cmd+Shift+→	Stage/Unstage and move to next		Enter	Enter
Interrupt current command		Esc	Esc	Select Page Up/Down	Shift+PageUp/Down	Shift+PageUp/Down	Shift+PageUp/Down				
Clear console		Ctrl+L	Ctrl+L	Select to Start/End	Shift+Alt+↑/↓	Cmd+Shift+↑/↓	Cmd+Shift+↑/↓				
Quit Session (desktop only)		Ctrl+Q	Cmd+Q	Delete Word Left	Ctrl+Opt+Backspace	Option+Delete	Option+Delete				
Restart R Session		Ctrl+Shift+F10	Cmd+Shift+F10	Delete Word Right		Ctrl+K	Ctrl+K				
Run current line/selection		Ctrl+Enter	Cmd+Enter	Delete to Line End		Option+Backspace	Option+Backspace				
Run current (retain cursor)		Alt+Enter	Option+Enter	Delete to Line Start		Tab (at start of line)	Tab (at start of line)				
Run from current to end		Ctrl+Alt+E	Cmd+Option+E	Indent		Shift+Tab	Shift+Tab				
Run the current function		Ctrl+Alt+F	Cmd+Option+F	Outdent		Ctrl+U	Ctrl+U				
Source a file		Ctrl+Shift+O	Cmd+Shift+O	Yank line up to cursor		Ctrl+K	Ctrl+K				
Source the current file		Ctrl+Shift+S	Cmd+Shift+S	Yank line after cursor		Ctrl+Y	Ctrl+Y				
Source with echo		Ctrl+Shift+Enter	Cmd+Shift+Enter	Insert yanked text							
3 NAVIGATE CODE		Windows /Linux	Mac	4 WRITE CODE		Windows /Linux	Mac	5 DEBUG CODE		Windows/Linux	Mac
Goto File/Function		Ctrl+.	Ctrl+.	Insert <-	Alt+-	Option+	Option+				
Fold Selected		Alt+L	Cmd+Option+L	Insert %>%	Ctrl+Shift+M	Cmd+Shift+M	Cmd+Shift+M				
Unfold Selected		Shift+Alt+L	Cmd+Shift+Option+L	Show help for function	F1	F1	F1				
Fold All		Alt+O	Cmd+Option+O	Show source code	F2	F2	F2				
Unfold All		Shift+Alt+O	Cmd+Shift+Option+O	New document	Ctrl+Shift+N	Cmd+Shift+N	Cmd+Shift+N				
Go to line		Shift+Alt+G	Cmd+Shift+Option+G	New document (Chrome)	Ctrl+Alt+Shift+N	Cmd+Shift+Alt+N	Cmd+Shift+Alt+N				
Jump to		Shift+Alt+J	Cmd+Shift+Option+J	Open document	Ctrl+O	Cmd+O	Cmd+O				
Switch to tab		Ctrl+Shift+.	Ctrl+Shift+.	Save document	Ctrl+S	Cmd+S	Cmd+S				
Previous tab		Ctrl+F11	Ctrl+F11	Close document	Ctrl+W	Cmd+W	Cmd+W				
Next tab		Ctrl+F12	Ctrl+F12	Close document (Chrome)	Ctrl+Alt+W	Cmd+Option+W	Cmd+Option+W				
First tab		Ctrl+Shift+F11	Ctrl+Shift+F11	Close all documents	Ctrl+Shift+W	Cmd+Shift+W	Cmd+Shift+W				
Last tab		Ctrl+Shift+F12	Ctrl+Shift+F12	Extract function	Ctrl+Alt+X	Cmd+Option+X	Cmd+Option+X				
Navigate back		Ctrl+F9	Cmd+F9	Extract variable	Ctrl+Alt+V	Cmd+Option+V	Cmd+Option+V				
Navigate forward		Ctrl+F10	Cmd+F10	Reindent lines	Ctrl+I	Cmd+I	Cmd+I				
Jump to Brace		Ctrl+P	Ctrl+P	(Un)Comment lines	Ctrl+Shift+C	Cmd+Shift+C	Cmd+Shift+C				
Select within Braces		Ctrl+Shift+Alt+E	Ctrl+Shift+Alt+E	Reflow Comment	Ctrl+Shift+/-	Cmd+Shift+/-	Cmd+Shift+/-				
Use Selection for Find		Ctrl+F3	Cmd+E	Reformat Selection	Ctrl+Shift+A	Cmd+Shift+A	Cmd+Shift+A				
Find in Files		Ctrl+Shift+F	Cmd+Shift+F	Select within braces	Ctrl+Shift+E	Ctrl+Shift+E	Ctrl+Shift+E				
Find Next		Win: F3, Linux: Ctrl+G	Cmd+G	Show Diagnostics	Ctrl+Shift+Alt+P	Cmd+Shift+Alt+P	Cmd+Shift+Alt+P				
Find Previous		W: Shift+F3, L: Ctrl+Shift	Cmd+Shift+G	Transpose Letters	Ctrl+T	Ctrl+T	Ctrl+T				
Jump to Word		Ctrl+←→	Option+←→	Move Lines Up/Down	Alt+↑/↓	Option+↑/↓	Option+↑/↓				
Jump to Start/End		Ctrl+↑/↓	Cmd+↑/↓	Copy Lines Up/Down	Shift+Alt+↑/↓	Cmd+Option+↑/↓	Cmd+Option+↑/↓				
				Add New Cursor Above	Ctrl+Alt+Up	Ctrl+Alt+Up	Ctrl+Alt+Up				
				Add New Cursor Below	Ctrl+Alt+Down	Ctrl+Alt+Down	Ctrl+Alt+Down				
				Move Active Cursor Up	Ctrl+Alt+Shift+Up	Ctrl+Alt+Shift+Up	Ctrl+Alt+Shift+Up				
				Move Active Cursor Down	Ctrl+Alt+Shift+Down	Ctrl+Alt+Shift+Down	Ctrl+Alt+Shift+Down				
				Find and Replace	Ctrl+F	Cmd+F	Cmd+F				
				Use Selection for Find	Ctrl+F3	Cmd+E	Cmd+E				
				Replace and Find	Ctrl+Shift+J	Cmd+Shift+J	Cmd+Shift+J				
6 VERSION CONTROL		Windows/Linux	Mac	7 MAKE PACKAGES		Windows /Linux	Mac	8 DOCUMENTS AND APPS		Windows/Linux	Mac
Search command history		Ctrl+↑	Cmd+↑	Build and Reload				Preview HTML (Markdown, etc.)		Ctrl+Shift+K	Cmd+Shift+K
Navigate command history		↑/↓	↑/↓	Load All (devtools)				Knit Document (knitr)		Ctrl+Shift+K	Cmd+Shift+K
Move cursor to start of line		Home	Cmd+←	Test Package (Desktop)				Compile Notebook		Ctrl+Shift+K	Cmd+Shift+K
Move cursor to end of line		End	Cmd+→	Test Package (Web)				Compile PDF (TeX and Sweave)		Ctrl+Shift+K	Cmd+Shift+K
Change working directory		Ctrl+Shift+H	Ctrl+Shift+H	Delete Word Left				Insert chunk (Sweave and Knitr)		Ctrl+Alt+I	Cmd+Option+I
Interrupt current command		Esc	Esc	Delete Word Right				Insert code section		Ctrl+Shift+R	Cmd+Shift+R
Clear console		Ctrl+L	Ctrl+L	Delete to Line End				Re-run previous region		Ctrl+Shift+P	Cmd+Shift+P
Quit Session (desktop only)		Ctrl+Q	Cmd+Q	Delete to Line Start				Run current document		Ctrl+Alt+R	Cmd+Option+R
Restart R Session		Ctrl+Shift+F10	Cmd+Shift+F10	Indent				Run from start to current line		Ctrl+Alt+B	Cmd+Option+B
Run current line/selection		Ctrl+Enter	Cmd+Enter	Outdent				Run the current code section		Ctrl+Alt+T	Cmd+Option+T
Run current (retain cursor)		Alt+Enter	Option+Enter	Yank line up to cursor				Run previous Sweave/Rmd code		Ctrl+Alt+P	Cmd+Option+P
Run from current to end		Ctrl+Alt+E	Cmd+Option+E	Yank line after cursor				Run the current chunk		Ctrl+Alt+C	Cmd+Option+C
Run the current function		Ctrl+Alt+F	Cmd+Option+F	Insert yanked text				Run the next chunk		Ctrl+Alt+N	Cmd+Option+N
Source a file		Ctrl+Shift+O	Cmd+Shift+O	Insert <-	Alt+-	Option+	Option+	Sync Editor & PDF Preview		Ctrl+F8	Cmd+F8
Source the current file		Ctrl+Shift+S	Cmd+Shift+S	Insert %>%	Ctrl+Shift+M	Cmd+Shift+M	Cmd+Shift+M	Previous plot		Ctrl+Alt+F11	Cmd+Option+F11
Source with echo		Ctrl+Shift+Enter	Cmd+Shift+Enter	Show help for function	F1	F1	F1	Next plot		Ctrl+Alt+F12	Cmd+Option+F12
3 NAVIGATE CODE		Windows /Linux	Mac	4 WRITE CODE		Windows /Linux	Mac	5 DEBUG CODE		Windows/Linux	Mac
Goto File/Function		Ctrl+.	Ctrl+.	Show source code	F2	F2	F2	Show Keyboard Shortcuts		Alt+Shift+K	Option+Shift+K
Fold Selected		Alt+L	Cmd+Option+L	New document	Ctrl+Shift+N	Cmd+Shift+N	Cmd+Shift+N	Why RStudio Server Pro?		Do everything you would do with the open source server with a commercial license, support, and more.	
Unfold Selected		Shift+Alt+L	Cmd+Shift+Option+L	New document (Chrome)	Ctrl+Alt+Shift+N	Cmd+Shift+Alt+N	Cmd+Shift+Alt+N	• edit the same project at the same time as others		• switch easily from one version of R to a different version	
Fold All		Alt+O	Cmd+Option+O	Open document	Ctrl+O	Cmd+O	Cmd+O	• open and run multiple R sessions simultaneously			