

RStudio IDE :: CHEATSHEET



Documents and Apps

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

Check spelling, Render output, Choose output format, Configure render options, Insert code chunk, Publish to server

Jump to previous chunk, Jump to next chunk, Run code, Show file outline, Visual Editor (reverse side)

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

Access markdown guide at **Help > Markdown Quick Reference**
See reverse side for more on **Visual Editor**

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

Source Editor

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

Re-run previous code, Source with or w/out Echo or as a Local Job, Show file outline

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, Run scripts in separate sessions, Maximize, minimize panes, Ctrl/Cmd + ↑ to see history, R Markdown Build Log, Drag pane boundaries

Tab Panes

Import data with wizard, History of past commands to run/copy, Manage external databases, View memory usage, R tutorials

Load workspace, Save workspace, Clear R workspace, 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, Delete file, Rename file, More file options, Change directory

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

Version Control

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

Added, Deleted, Modified, Renamed, Untracked

Stage files, Commit staged files, Push/Pull to remote, View History, Current branch

Show file diff to view file differences

Debug Mode

Use **debug()**, **browser()**, or a breakpoint and execute your code to open the debugger mode.

Launch debugger mode from origin of error, Open traceback to examine the functions that R called before the error occurred

Console, Terminal, Jobs, Show Traceback, Rerun with Debug

Package Development

Create a new package with **File > New Project > New Directory > R Package**

Enable roxygen documentation with **Tools > Project Options > Build Tools**

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

See package information in the **Build Tab**

Install package and restart R, Run devtools::load_all() and reload changes

Run R CMD check, Customize package build options, Clear output and rebuild, Run package tests

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, Browse package site, 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, Posit Connect, Posit Cloud, ..., Refresh

View(<data>) opens spreadsheet like view of data set

Filter rows by value or value range, Sort by values, Search for value

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

Step through code one line at a time, Step into and out of functions to run, Resume execution, Quit debug mode

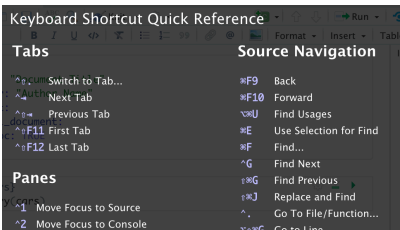


Keyboard Shortcuts

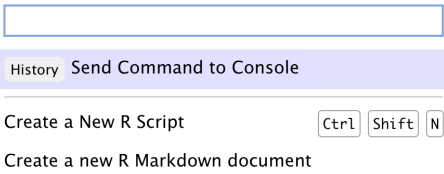
RUN CODE		Windows/Linux	Mac
Search command history		Ctrl+↑	Cmd+↑
Interrupt current command		Esc	Esc
Clear console		Ctrl+L	Ctrl+L
NAVIGATE CODE			
Go to File/Function		Ctrl+.	Ctrl+.
WRITE CODE			
Attempt completion		Tab or Ctrl+Space	Tab or Ctrl+Space
Insert <- (assignment operator)		Alt+-	Option+-
Insert > or %>% (pipe operator)		Ctrl+Shift+M	Cmd+Shift+M
(Un)Comment selection		Ctrl+Shift+C	Cmd+Shift+C
MAKE PACKAGES		Windows/Linux	Mac
Load All (devtools)		Ctrl+Shift+L	Cmd+Shift+L
Test Package (Desktop)		Ctrl+Shift+T	Cmd+Shift+T
Document Package		Ctrl+Shift+D	Cmd+Shift+D

DOCUMENTS AND APPS		Windows/Linux	Mac
Knit/Render Document (knitr)		Ctrl+Shift+K	Cmd+Shift+K
Insert chunk (Sweave & Knitr)		Ctrl+Alt+I	Cmd+Option+I
Run from start to current line		Ctrl+Alt+B	Cmd+Option+B
MORE KEYBOARD SHORTCUTS			
Keyboard Shortcuts Help		Alt+Shift+K	Option+Shift+K
Show Command Palette		Ctrl+Shift+P	Cmd+Shift+P

View the Keyboard Shortcut Quick Reference with **Tools > Keyboard Shortcuts** or **Alt/Option + Shift + K**



Search for keyboard shortcuts with **Tools > Show Command Palette** or **Ctrl/Cmd + Shift + P**.



Visual Editor

Block format

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

Back to Source Editor (front page)

Heading 2

B

I

U

</>

Format

Insert

Table

title: "Document Title"

author: "Author Name"

output:

html_document:

toc: TRUE

Lists and block quotes

Links

Citations

Images

More formatting

Insert blocks, citations, equations, and special characters

R Markdown Including Plots

File outline

Insert and edit tables

Clear formatting

Insert verbatim code

{r setup, include=FALSE}

knitr::opts_chunk\$set(echo = TRUE)

R Markdown

This is an R Markdown document. Markdown is a simple formatting syntax for authoring HTML, PDF, and MS Word documents.

{r cars}

summary(cars)

Jump to chunk or header

Set knitr chunk options

Run this and all previous code chunks

Run this code chunk

Add/Edit attributes

Posit Workbench



WHY POSIT WORKBENCH?

- Extend the open source server with a commercial license, support, and more:
- open and run multiple R sessions at once
 - tune your resources to improve performance
 - administrative tools for managing user sessions
 - collaborate real-time with others in shared projects
 - switch easily from one version of R to a different version
 - integrate with your authentication, authorization, and audit practices
 - work in the RStudio IDE, JupyterLab, Jupyter Notebooks, or VS Code

Download a free 45 day evaluation at posit.co/products/enterprise/workbench/

Share Projects

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.

New Project...

Open Project...

Close Project

Share Project...

IDEcheatsheet

RStudio-Essentials

Essentials

shiny-examples

Clear Project List

Project Options...

Start new R Session in current project

Close R Session in project

Active shared collaborators

Name of current project

Select R Version

Share Project with Collaborators

Run Remote Jobs

Run R on remote clusters (Kubernetes/Slurm) via the Job Launcher

Run

Source

Source with Echo

Source as Launcher Job...

Source as Local Job...

Monitor launcher jobs

Launch a job

Run launcher jobs remotely

Console

Terminal

Jobs

Launcher

Start Launcher Job

Sorted by submission time

fast.R

Running

Local

0:09

sleepy.R

Succeeded 11:22 AM

Local

0:41

sleepy.R

Idle

KubernetesX

Waiting