

# RStudio IDE :: CHEAT SHEET



## 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

Cursors of shared users, Re-run previous code, Source with or without Echo, 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, Maximize, minimize panes, Press **↑** to see command history, Drag pane boundaries

## R Support

Import data with wizard, History of past commands to run/copy, 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, Change directory

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

## Pro Features

**Share Project** with Collaborators, Active shared collaborators

Start **new R Session** in current project, Close R Session in project, **Select R Version**

### 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 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, RStudioConnect, ..., Refresh

**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()**, **browser()**, 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 from origin of error, Open traceback to examine the functions that R called before the error occurred

Show Traceback, Rerun with Debug

Next, Continue, Stop

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

## 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**

Build & Reload, Clean and Rebuild, Test Package, Check Package, Build Source Package, Build Binary Package, Document, Configure Build Tools...





### 1 LAYOUT

|                             |        |        |
|-----------------------------|--------|--------|
| Move focus to Source Editor | Ctrl+1 | Ctrl+1 |
| Move focus to Console       | Ctrl+2 | Ctrl+2 |
| Move focus to Help          | Ctrl+3 | Ctrl+3 |
| Show History                | Ctrl+4 | Ctrl+4 |
| Show Files                  | Ctrl+5 | Ctrl+5 |
| Show Plots                  | Ctrl+6 | Ctrl+6 |
| Show Packages               | Ctrl+7 | Ctrl+7 |
| Show Environment            | Ctrl+8 | Ctrl+8 |
| Show Git/SVN                | Ctrl+9 | Ctrl+9 |
| Show Build                  | Ctrl+0 | Ctrl+0 |

### 2 RUN CODE

|                                   |                      |                 |
|-----------------------------------|----------------------|-----------------|
| <b>Search command history</b>     | <b>Windows/Linux</b> | <b>Mac</b>      |
| Navigate command history          | Ctrl+↑               | Cmd+↑           |
| Move cursor to start of line      | ↑/↓                  | ↑/↓             |
| Move cursor to end of line        | Home                 | Cmd+←           |
| Change working directory          | End                  | Cmd+→           |
| <b>Interrupt current command</b>  | Ctrl+Shift+H         | Ctrl+Shift+H    |
| <b>Clear console</b>              | <b>Esc</b>           | <b>Esc</b>      |
| Quit Session (desktop only)       | Ctrl+L               | Ctrl+L          |
| <b>Restart R Session</b>          | Ctrl+Q               | Cmd+Q           |
| <b>Run current line/selection</b> | Ctrl+Shift+F10       | Cmd+Shift+F10   |
| Run current (retain cursor)       | Ctrl+Enter           | Cmd+Enter       |
| Run from current to end           | Alt+Enter            | Option+Enter    |
| Run the current function          | Ctrl+Alt+E           | Cmd+Option+E    |
| Source a file                     | Ctrl+Alt+F           | Cmd+Option+F    |
| <b>Source the current file</b>    | Ctrl+Alt+G           | Cmd+Option+G    |
| Source with echo                  | Ctrl+Shift+S         | Cmd+Shift+S     |
|                                   | Ctrl+Shift+Enter     | Cmd+Shift+Enter |

### 3 NAVIGATE CODE

|                           |                        |                     |
|---------------------------|------------------------|---------------------|
| <b>Goto File/Function</b> | <b>Windows /Linux</b>  | <b>Mac</b>          |
| Fold Selected             | Ctrl+.                 | Ctrl+.              |
| Unfold Selected           | Alt+L                  | Cmd+Option+L        |
| Fold All                  | Shift+Alt+L            | Cmd+Shift+Option+L  |
| Unfold All                | Alt+O                  | Cmd+Option+O        |
| Go to line                | Shift+Alt+O            | Cmd+Shift+Option+O  |
| Jump to                   | Shift+Alt+G            | Cmd+Shift+Option+G  |
| Switch to tab             | Shift+Alt+J            | Cmd+Shift+Option+J  |
| Previous tab              | Ctrl+Shift+.           | Ctrl+Shift+.        |
| Next tab                  | Ctrl+F11               | Ctrl+F11            |
| First tab                 | Ctrl+F12               | Ctrl+F12            |
| Last tab                  | Ctrl+Shift+F11         | Ctrl+Shift+F11      |
| Navigate back             | Ctrl+Shift+F12         | Ctrl+Shift+F12      |
| Navigate forward          | Ctrl+F9                | Cmd+F9              |
| Jump to Brace             | Ctrl+F10               | Cmd+F10             |
| Select within Braces      | Ctrl+P                 | Ctrl+P              |
| Use Selection for Find    | Ctrl+Shift+Alt+E       | Ctrl+Shift+Option+E |
| Find in Files             | Ctrl+F3                | Cmd+E               |
| Find Next                 | Ctrl+Shift+F           | Cmd+Shift+F         |
| Find Previous             | Win: F3, Linux: Ctrl+G | Cmd+G               |
| Jump to Word              | W: Shift+F3, L:        | Cmd+Shift+G         |
| Jump to Start/End         | Ctrl+ ←/→              | Option+ ←/→         |
| Toggle Outline            | Ctrl+↑/↓               | Cmd+↑/↓             |
|                           | Ctrl+Shift+O           | Cmd+Shift+O         |

### 4 WRITE CODE

|                           |                        |                        |
|---------------------------|------------------------|------------------------|
| <b>Attempt completion</b> | <b>Windows /Linux</b>  | <b>Mac</b>             |
| Navigate candidates       | Tab or Ctrl+Space      | Tab or Cmd+Space       |
| Accept candidate          | ↑/↓                    | ↑/↓                    |
| Dismiss candidates        | Enter, Tab, or →       | Enter, Tab, or →       |
| Undo                      | Esc                    | Esc                    |
| Redo                      | Ctrl+Z                 | Cmd+Z                  |
| Cut                       | Ctrl+Shift+Z           | Cmd+Shift+Z            |
| Copy                      | Ctrl+X                 | Cmd+X                  |
| Paste                     | Ctrl+C                 | Cmd+C                  |
| Select All                | Ctrl+V                 | Cmd+V                  |
| Delete Line               | Ctrl+A                 | Cmd+A                  |
| Select                    | Ctrl+D                 | Cmd+D                  |
| Select Word               | Shift+[Arrow]          | Shift+[Arrow]          |
| Select to Line Start      | Ctrl+Shift+ ←/→        | Option+Shift+ ←/→      |
| Select to Line End        | Alt+Shift+←            | Cmd+Shift+←            |
| Select Page Up/Down       | Alt+Shift+→            | Cmd+Shift+→            |
| Select to Start/End       | Shift+PageUp/Down      | Shift+PageUp/Down      |
| Delete Word Left          | Shift+Alt+↑/↓          | Cmd+Shift+↑/↓          |
| Delete Word Right         | Ctrl+Backspace         | Ctrl+Opt+Backspace     |
| Delete to Line End        |                        | Option+Delete          |
| Delete to Line Start      |                        | Ctrl+K                 |
| Indent                    | Tab (at start of line) | Option+Backspace       |
| Outdent                   | Shift+Tab              | Tab (at start of line) |
| Yank line up to cursor    | Ctrl+U                 | Shift+Tab              |
| Yank line after cursor    | Ctrl+K                 | Ctrl+U                 |
| Insert yanked text        | Ctrl+Y                 | Ctrl+K                 |
| <b>Insert &lt;-</b>       | <b>Alt+-</b>           | <b>Option+-</b>        |
| <b>Insert %&gt;%</b>      | <b>Ctrl+Shift+M</b>    | <b>Cmd+Shift+M</b>     |
| Show help for function    | F1                     | F1                     |
| Show source code          | F2                     | F2                     |
| New document              | Ctrl+Shift+N           | Cmd+Shift+N            |
| New document (Chrome)     | Ctrl+Alt+Shift+N       | Cmd+Shift+Opt+N        |
| Open document             | Ctrl+O                 | Cmd+O                  |
| Save document             | Ctrl+S                 | Cmd+S                  |
| Close document            | Ctrl+W                 | Cmd+W                  |
| Close document (Chrome)   | Ctrl+Alt+W             | Cmd+Option+W           |
| Close all documents       | Ctrl+Shift+W           | Cmd+Shift+W            |
| Extract function          | Ctrl+Alt+X             | Cmd+Option+X           |
| Extract variable          | Ctrl+Alt+V             | Cmd+Option+V           |
| Reindent lines            | Ctrl+I                 | Cmd+I                  |
| <b>(Un)Comment lines</b>  | <b>Ctrl+Shift+C</b>    | <b>Cmd+Shift+C</b>     |
| Reflow Comment            | Ctrl+Shift+/           | Cmd+Shift+/            |
| Reformat Selection        | Ctrl+Shift+A           | Cmd+Shift+A            |
| Select within braces      | Ctrl+Shift+E           | Ctrl+Shift+E           |
| Show Diagnostics          | Ctrl+Shift+Alt+P       | Cmd+Shift+Opt+P        |
| Transpose Letters         |                        | Ctrl+T                 |
| Move Lines Up/Down        | Alt+↑/↓                | Option+↑/↓             |
| Copy Lines Up/Down        | Shift+Alt+↑/↓          | Cmd+Option+↑/↓         |
| Add New Cursor Above      | Ctrl+Alt+Up            | Ctrl+Option+Up         |
| Add New Cursor Below      | Ctrl+Alt+Down          | Ctrl+Option+Down       |
| Move Active Cursor Up     | Ctrl+Alt+Shift+Up      | Ctrl+Option+Shift+Up   |
| Move Active Cursor Down   | Ctrl+Alt+Shift+Down    | Ctrl+Opt+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            |

### WHY RSTUDIO SERVER PRO?

RSP extends the 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
- edit the same project at the same time as others
- see what you and others are doing on your server
- switch easily from one version of R to a different version
- integrate with your authentication, authorization, and audit practices

Download a free 45 day evaluation at

[www.rstudio.com/products/rstudio-server-pro/](http://www.rstudio.com/products/rstudio-server-pro/)

### 5 DEBUG CODE

|                      |          |          |
|----------------------|----------|----------|
| Toggle Breakpoint    | Shift+F9 | Shift+F9 |
| Execute Next Line    | F10      | F10      |
| Step Into Function   | Shift+F4 | Shift+F4 |
| Finish Function/Loop | Shift+F6 | Shift+F6 |
| Continue             | Shift+F5 | Shift+F5 |
| Stop Debugging       | Shift+F8 | Shift+F8 |

### 6 VERSION CONTROL

|                                |            |               |
|--------------------------------|------------|---------------|
| Show diff                      | Ctrl+Alt+D | Ctrl+Option+D |
| Commit changes                 | Ctrl+Alt+M | Ctrl+Option+M |
| Scroll diff view               | Ctrl+↑/↓   | Ctrl+↑/↓      |
| Stage/Unstage (Git)            | Spacebar   | Spacebar      |
| Stage/Unstage and move to next | Enter      | Enter         |

### 7 MAKE PACKAGES

|                               |                     |                    |
|-------------------------------|---------------------|--------------------|
| Build and Reload              | Ctrl+Shift+B        | Cmd+Shift+B        |
| <b>Load All (devtools)</b>    | <b>Ctrl+Shift+L</b> | <b>Cmd+Shift+L</b> |
| <b>Test Package (Desktop)</b> | <b>Ctrl+Shift+T</b> | <b>Cmd+Shift+T</b> |
| Test Package (Web)            | Ctrl+Alt+F7         | Cmd+Opt+F7         |
| Check Package                 | Ctrl+Shift+E        | Cmd+Shift+E        |
| <b>Document Package</b>       | <b>Ctrl+Shift+D</b> | <b>Cmd+Shift+D</b> |

### 8 DOCUMENTS AND APPS

|                                       |                     |                       |
|---------------------------------------|---------------------|-----------------------|
| Preview HTML (Markdown, etc.)         | Ctrl+Shift+K        | Cmd+Shift+K           |
| <b>Knit Document (knitr)</b>          | <b>Ctrl+Shift+K</b> | <b>Cmd+Shift+K</b>    |
| 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          |
| <b>Run from start to current line</b> | <b>Ctrl+Alt+B</b>   | <b>Cmd+Option+B</b>   |
| <b>Run the current code section</b>   | <b>Ctrl+Alt+T</b>   | <b>Cmd+Option+T</b>   |
| 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        |
| <b>Show Keyboard Shortcuts</b>        | <b>Alt+Shift+K</b>  | <b>Option+Shift+K</b> |

