

# RStudio IDE :: CHEAT SHEET



## Documents and Apps

Open Shiny, R Markdown, knitr, Sweave, LaTeX, .R 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

```

17- {r pressure, echo=FALSE}
18- plot(pressure)
19-
20-

```

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

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.

## R Support

Import data with wizard, History of past commands to run/copy, Display .RPres slideshows **File > New File > R Presentation**

## 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.

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

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

Filter	Sepal.Length	Sepal.Width	Petal.Length	Petal.Width	Species
All	All	All	All	All	All
1	5.1	3.5	1.4	0.2	setosa
2					
3	Filter rows by value or value range		Sort by values	Search for value	
4					

## 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

Console: `> foo()`

Error in `get_digit(num, x)`: Show Traceback, Rerun with Debug

Traceback: `palindrome(condidate) at palindrome.R:12`, `biggest_palindrome() at palindrome.R:25`

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, Check, More...

Load All, Clean and Rebuild, Test Package, Check Package, Build Source Package, Build Binary Package, Document, Configure Build Tools...





### 1 LAYOUT

Move focus to Source Editor  
 Move focus to Console  
 Move focus to Help  
 Show History  
 Show Files  
 Show Plots  
 Show Packages  
 Show Environment  
 Show Git/SVN  
 Show Build

**Windows/Linux** **Mac**  
 Ctrl+1 Ctrl+1  
 Ctrl+2 Ctrl+2  
 Ctrl+3 Ctrl+3  
 Ctrl+4 Ctrl+4  
 Ctrl+5 Ctrl+5  
 Ctrl+6 Ctrl+6  
 Ctrl+7 Ctrl+7  
 Ctrl+8 Ctrl+8  
 Ctrl+9 Ctrl+9  
 Ctrl+0 Ctrl+0

### 2 RUN CODE

#### Search command history

Navigate command history  
 Move cursor to start of line  
 Move cursor to end of line  
 Change working directory

**Windows/Linux** **Mac**  
 Ctrl+↑ **Cmd+↑**  
 ↑/↓ ↑/↓  
 Home Cmd+←  
 End Cmd+→  
 Ctrl+Shift+H Ctrl+Shift+H

#### Interrupt current command

#### Clear console

Quit Session (desktop only)

#### Restart R Session

#### Run current line/selection

Run current (retain cursor)  
 Run from current to end  
 Run the current function  
 Source a file

**Esc** **Esc**  
**Ctrl+L** **Ctrl+L**  
 Ctrl+Q Cmd+Q  
**Ctrl+Shift+F10** **Cmd+Shift+F10**  
**Ctrl+Enter** **Cmd+Enter**  
 Alt+Enter Option+Enter  
 Ctrl+Alt+E Cmd+Option+E  
 Ctrl+Alt+F Cmd+Option+F  
 Ctrl+Alt+G Cmd+Option+G

#### Source the current file

Source with echo

**Ctrl+Shift+S** **Cmd+Shift+S**  
 Ctrl+Shift+Enter Cmd+Shift+Enter

### 3 NAVIGATE CODE

#### Goto File/Function

Fold Selected  
 Unfold Selected  
 Fold All  
 Unfold All  
 Go to line  
 Jump to  
 Switch to tab  
 Previous tab  
 Next tab  
 First tab  
 Last tab  
 Navigate back  
 Navigate forward  
 Jump to Brace  
 Select within Braces  
 Use Selection for Find  
 Find in Files  
 Find Next  
 Find Previous  
 Jump to Word  
 Jump to Start/End  
 Toggle Outline

**Windows /Linux** **Mac**  
**Ctrl+.** **Ctrl+.**  
 Alt+L Cmd+Option+L  
 Shift+Alt+L Cmd+Shift+Option+L  
 Alt+O Cmd+Option+O  
 Shift+Alt+O Cmd+Shift+Option+O  
 Shift+Alt+G Cmd+Shift+Option+G  
 Shift+Alt+J Cmd+Shift+Option+J  
 Ctrl+Shift+. Ctrl+Shift+.  
 Ctrl+F11 Ctrl+F11  
 Ctrl+F12 Ctrl+F12  
 Ctrl+Shift+F11 Ctrl+Shift+F11  
 Ctrl+Shift+F12 Ctrl+Shift+F12  
 Ctrl+F9 Cmd+F9  
 Ctrl+F10 Cmd+F10  
 Ctrl+P Ctrl+P  
 Ctrl+Shift+Alt+E Ctrl+Shift+Option+E  
 Ctrl+F3 Cmd+E  
 Ctrl+Shift+F Cmd+Shift+F  
 Win: F3, Linux: Ctrl+G Cmd+G  
 W: Shift+F3, L: Cmd+Shift+G  
 Ctrl+ ←/→ Option+ ←/→  
 Ctrl+ ↑/↓ Cmd+ ↑/↓  
 Ctrl+Shift+O Cmd+Shift+O

#### Mac

#### Ctrl+.

Cmd+Option+L  
 Cmd+Shift+Option+L  
 Cmd+Option+O  
 Cmd+Shift+Option+O  
 Cmd+Shift+Option+G  
 Cmd+Shift+Option+J  
 Ctrl+Shift+.  
 Ctrl+F11  
 Ctrl+F12  
 Ctrl+Shift+F11  
 Ctrl+Shift+F12  
 Cmd+F9  
 Cmd+F10  
 Ctrl+P  
 Ctrl+Shift+Option+E  
 Cmd+E  
 Cmd+Shift+F  
 Cmd+G  
 Cmd+Shift+G  
 Option+ ←/→  
 Cmd+ ↑/↓  
 Cmd+Shift+O

### 4 WRITE CODE

#### Attempt completion

Navigate candidates  
 Accept candidate  
 Dismiss candidates  
 Undo  
 Redo  
 Cut  
 Copy  
 Paste  
 Select All  
 Delete Line  
 Select  
 Select Word  
 Select to Line Start  
 Select to Line End  
 Select Page Up/Down  
 Select to Start/End  
 Delete Word Left  
 Delete Word Right  
 Delete to Line End  
 Delete to Line Start  
 Indent  
 Outdent  
 Yank line up to cursor  
 Yank line after cursor  
 Insert yanked text

**Windows /Linux** **Mac**  
**Tab or Ctrl+Space** **Tab or Cmd+Space**  
 ↑/↓ ↑/↓  
 Enter, Tab, or → Enter, Tab, or →  
 Esc Esc  
 Ctrl+Z Cmd+Z  
 Ctrl+Shift+Z Cmd+Shift+Z  
 Ctrl+X Cmd+X  
 Ctrl+C Cmd+C  
 Ctrl+V Cmd+V  
 Ctrl+A Cmd+A  
 Ctrl+D Cmd+D  
 Shift+[Arrow] Shift+[Arrow]  
 Ctrl+Shift+ ←/→ Option+Shift+ ←/→  
 Alt+Shift+← Cmd+Shift+←  
 Alt+Shift+→ Cmd+Shift+→  
 Shift+PageUp/Down Shift+PageUp/Down  
 Shift+Alt+ ↑/↓ Cmd+Shift+ ↑/↓  
 Ctrl+Backspace Ctrl+Opt+Backspace

Insert **Ctrl+L**  
 Delete Word Left  
 Delete Word Right  
 Delete to Line End  
 Delete to Line Start  
 Indent  
 Outdent  
 Yank line up to cursor  
 Yank line after cursor  
 Insert yanked text

**Alt+-** **Option+-**  
**Ctrl+Shift+M** **Cmd+Shift+M**  
 F1 F1  
 F2 F2  
 Ctrl+Shift+N Cmd+Shift+N  
 Ctrl+Alt+Shift+N Cmd+Shift+Opt+N  
 Ctrl+O Cmd+O  
 Ctrl+S Cmd+S  
 Ctrl+W Cmd+W  
 Ctrl+Alt+W Cmd+Option+W  
 Ctrl+Shift+W Cmd+Shift+W  
 Ctrl+Alt+X Cmd+Option+X  
 Ctrl+Alt+V Cmd+Option+V  
 Ctrl+I Cmd+I  
**Ctrl+Shift+C** **Cmd+Shift+C**  
 Ctrl+Shift+/ Cmd+Shift+/  
 Ctrl+Shift+A Cmd+Shift+A  
 Ctrl+Shift+E Ctrl+Shift+E  
 Ctrl+Shift+Alt+P Cmd+Shift+Opt+P  
 Ctrl+T Ctrl+T  
 Option+ ↑/↓ Option+ ↑/↓  
 Cmd+Option+ ↑/↓ Cmd+Option+ ↑/↓  
 Ctrl+Option+Up Ctrl+Option+Up  
 Ctrl+Option+Down Ctrl+Option+Down  
 Ctrl+Option+Shift+Up Ctrl+Option+Shift+Up  
 Ctrl+Opt+Shift+Down Ctrl+Opt+Shift+Down  
 Ctrl+F Cmd+F  
 Ctrl+E Cmd+E  
 Ctrl+Shift+J Cmd+Shift+J

#### Insert <-

#### Insert %>%

Show help for function  
 Show source code  
 New document  
 New document (Chrome)  
 Open document  
 Save document  
 Close document  
 Close document (Chrome)  
 Close all documents  
 Extract function  
 Extract variable  
 Reindent lines

#### (Un)Comment lines

Reflow Comment  
 Reformat Selection  
 Select within braces  
 Show Diagnostics  
 Transpose Letters  
 Move Lines Up/Down  
 Copy Lines Up/Down  
 Add New Cursor Above  
 Add New Cursor Below  
 Move Active Cursor Up  
 Move Active Cursor Down  
 Find and Replace  
 Use Selection for Find  
 Replace and Find

Tab (at start of line)  
 Shift+Tab  
 Ctrl+U  
 Ctrl+K  
 Ctrl+Y

#### Alt+-

#### Ctrl+Shift+M

F1  
 F2  
 Ctrl+Shift+N  
 Ctrl+Alt+Shift+N  
 Ctrl+O  
 Ctrl+S  
 Ctrl+W  
 Ctrl+Alt+W  
 Ctrl+Shift+W  
 Ctrl+Alt+X  
 Ctrl+Alt+V  
 Ctrl+I  
**Ctrl+Shift+C**  
 Ctrl+Shift+/  
 Ctrl+Shift+A  
 Ctrl+Shift+E  
 Ctrl+Shift+Alt+P

Alt+ ↑/↓  
 Shift+Alt+ ↑/↓  
 Ctrl+Alt+Up  
 Ctrl+Alt+Down  
 Ctrl+Alt+Shift+Up  
 Ctrl+Alt+Shift+Down  
 Ctrl+F  
 Ctrl+E  
 Ctrl+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  
 Execute Next Line  
 Step Into Function  
 Finish Function/Loop  
 Continue  
 Stop Debugging

**Windows/Linux** **Mac**

Shift+F9 Shift+F9  
 F10 F10  
 Shift+F4 Shift+F4  
 Shift+F6 Shift+F6  
 Shift+F5 Shift+F5  
 Shift+F8 Shift+F8

### 6 VERSION CONTROL

Show diff  
 Commit changes  
 Scroll diff view  
 Stage/Unstage (Git)  
 Stage/Unstage and move to next

**Windows/Linux** **Mac**

Ctrl+Alt+D Ctrl+Option+D  
 Ctrl+Alt+M Ctrl+Option+M  
 Ctrl+ ↑/↓ Ctrl+ ↑/↓  
 Spacebar Spacebar  
 Enter Enter

### 7 MAKE PACKAGES

Build and Reload  
**Load All (devtools)**  
**Test Package (Desktop)**  
 Test Package (Web)  
 Check Package  
**Document Package**

**Windows/Linux** **Mac**

Ctrl+Shift+B Cmd+Shift+B  
**Ctrl+Shift+L** **Cmd+Shift+L**  
**Ctrl+Shift+T** **Cmd+Shift+T**  
 Ctrl+Alt+F7 Cmd+Opt+F7  
 Ctrl+Shift+E Cmd+Shift+E  
**Ctrl+Shift+D** **Cmd+Shift+D**

### 8 DOCUMENTS AND APPS

Preview HTML (Markdown, etc.)  
**Knit Document (knitr)**  
 Compile Notebook  
 Compile PDF (TeX and Sweave)  
 Insert chunk (Sweave and Knitr)  
 Insert code section  
 Re-run previous region  
 Run current document  
**Run from start to current line**  
**Run the current code section**  
 Run previous Sweave/Rmd code  
 Run the current chunk  
 Run the next chunk  
 Sync Editor & PDF Preview  
 Previous plot  
 Next plot  
**Show Keyboard Shortcuts**

**Windows/Linux** **Mac**

Ctrl+Shift+K Cmd+Shift+K  
**Ctrl+Shift+K** **Cmd+Shift+K**  
 Ctrl+Shift+K Cmd+Shift+K  
 Ctrl+Shift+K Cmd+Shift+K  
 Ctrl+Alt+I Cmd+Option+I  
 Ctrl+Shift+R Cmd+Shift+R  
 Ctrl+Shift+P Cmd+Shift+P  
 Ctrl+Alt+R Cmd+Option+R  
**Ctrl+Alt+B** **Cmd+Option+B**  
**Ctrl+Alt+T** **Cmd+Option+T**  
 Ctrl+Alt+P Cmd+Option+P  
 Ctrl+Alt+C Cmd+Option+C  
 Ctrl+Alt+N Cmd+Option+N  
 Ctrl+F8 Cmd+F8  
 Ctrl+Alt+F11 Cmd+Option+F11  
 Ctrl+Alt+F12 Cmd+Option+F12  
**Alt+Shift+K** **Option+Shift+K**

