

# RStudio IDE :: CHEAT SHEET

## Documents and Apps



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

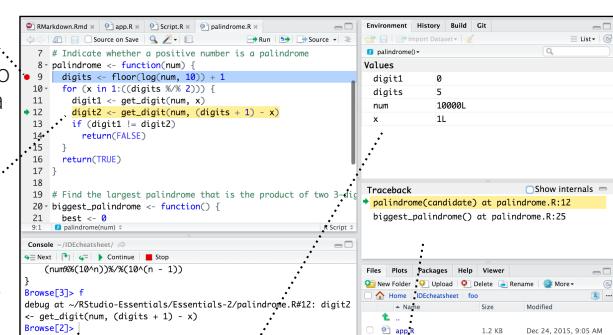
## Debug Mode

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

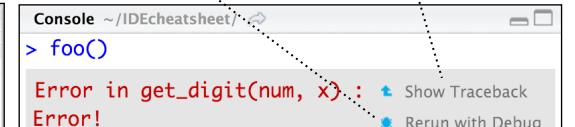


Examine variables in executing environment

Select function in traceback to debug

Launch debugger 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

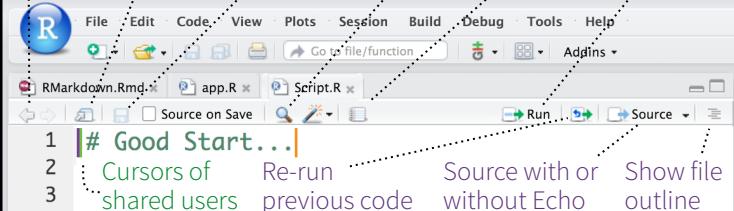
Step into and out of functions to run

Resume execution mode

Quit debug

## 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

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

Data   Values   Functions

150 obs. of 5 variables

a   1

foo   function (x)

Displays saved objects by type with short description

View in data viewer   View function source code



Files   Plots   Packages   Help   Viewer

New Folder   Upload   Delete   Rename   More

Copy...   Move...   Export...

Set As Working Directory   Go To Working Directory

Create folder   Upload file   Delete file   Rename file   Change directory

Path to displayed directory

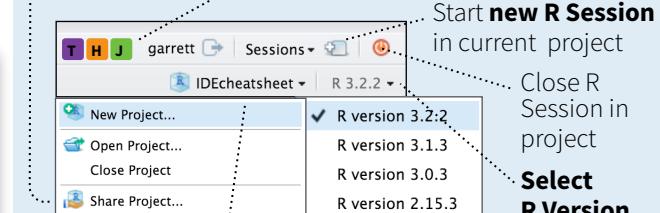
Maximize, minimize panes

Drag pane boundaries

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

## Pro Features

**Share Project** Active shared with Collaborators



Start **new R Session** in current project

Close R Session in project

**Select R Version**

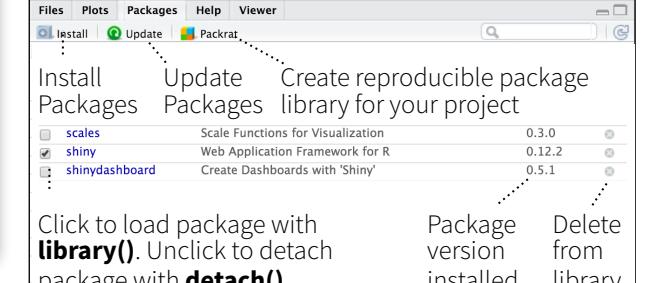
## PROJECT SYSTEM

**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.



GUI Package manager lists every installed package

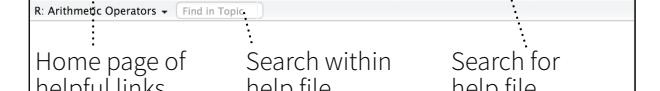


Click to load package with **library()**. Unclick to detach package with **detach()**

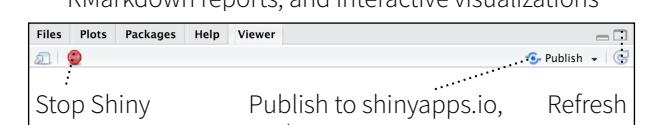
Package version installed

Delete from library

RStudio opens documentation in a dedicated Help pane



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



## 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

### Interrupt current command

### Clear console

Quit Session (desktop only)

### Restart R Session

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

### Source the current file

Source with echo

**Windows/Linux Mac**

**Ctrl+↑** Cmd+↑  
**↑/↓** ↑/↓  
Home Cmd+←  
End Cmd+→  
Ctrl+Shift+H Ctrl+Shift+H  
**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  
**Ctrl+Shift+S** Cmd+Shift+S  
Ctrl+Shift+Enter Cmd+Shift+Enter

## 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  
**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

## Windows /Linux

### Tab or Ctrl+Space

↑/↓ Enter, Tab, or →  
Esc  
Ctrl+Z  
Ctrl+Shift+Z  
Ctrl+X  
Ctrl+C  
Ctrl+V  
Ctrl+A  
Ctrl+D  
Shift+[Arrow]  
Ctrl+Shift+←/→

Alt+Shift+←  
Alt+Shift+→  
Shift+PageUp/Down  
Shift+Alt+↑/↓  
Ctrl+Backspace

Ctrl+K  
Option+Backspace  
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+Opt+P  
Ctrl+T  
**Alt+↑/↓**  
**Shift+Alt+↑/↓**  
Ctrl+Option+Up  
Ctrl+Option+Down  
Ctrl+Alt+Shift+Up  
Ctrl+Alt+Shift+Down  
Ctrl+Opt+Shift+Down

Ctrl+F  
Ctrl+F3  
Ctrl+Shift+F  
Win: F3, Linux: Ctrl+G  
Cmd+G  
Cmd+Shift+G  
Option+←/→  
**Ctrl+↑/↓**  
Cmd+Shift+O

## Mac

### Tab or Cmd+Space

↑/↓ Enter, Tab, or →  
Esc  
Cmd+Z  
Cmd+Shift+Z  
Cmd+X  
Cmd+C  
Cmd+V  
Cmd+A  
Cmd+D  
Shift+[Arrow]

Option+Shift+←/→  
Cmd+Shift+←  
Cmd+Shift+→  
Shift+PageUp/Down  
Cmd+Shift+↑/↓  
Ctrl+Opt+Backspace  
Option+Delete  
Ctrl+K

Option+Backspace  
Tab (at start of line)  
Shift+Tab  
Ctrl+U  
Ctrl+K  
Ctrl+Y  
**Option+-**  
**Cmd+Shift+M**

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

Ctrl+F  
Ctrl+F3  
Ctrl+Shift+F  
W: Shift+F3, L:  
Option+←/→  
**Ctrl+↑/↓**  
Cmd+Shift+O

## WHY RSTUDIO SERVER PRO?

RSP extends 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

<b>Windows/Linux</b>	<b>Mac</b>
Toggle Breakpoint	Shift+F9
Execute Next Line	F10
Step Into Function	Shift+F4
Finish Function/Loop	Shift+F6
Continue	Shift+F5
Stop Debugging	Shift+F8

## 6 VERSION CONTROL

<b>Windows/Linux</b>	<b>Mac</b>
Show diff	Ctrl+Alt+D
Commit changes	Ctrl+Alt+M
Scroll diff view	Ctrl+↑/↓
Stage/Unstage (Git)	Spacebar
Stage/Unstage and move to next	Enter

## 7 MAKE PACKAGES

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

## 8 DOCUMENTS AND APPS

<b>Windows/Linux</b>	<b>Mac</b>
Preview HTML (Markdown, etc.)	Ctrl+Shift+K
<b>Knit Document (knitr)</b>	<b>Cmd+Shift+K</b>
Compile Notebook	Ctrl+Shift+K
Compile PDF (TeX and Sweave)	Ctrl+Shift+K
Insert chunk (Sweave and Knitr)	Ctrl+Alt+I
Insert code section	Ctrl+Shift+R
Re-run previous region	Ctrl+Shift+P
Run current document	Ctrl+Alt+R
<b>Run from start to current line</b>	<b>Cmd+Option+B</b>
<b>Run the current code section</b>	<b>Cmd+Option+T</b>
Run previous Sweave/Rmd code	Ctrl+Alt+P
Run the current chunk	Ctrl+Alt+C
Run the next chunk	Ctrl+Alt+N
Sync Editor & PDF Preview	Ctrl+F8
Previous plot	Ctrl+Alt+F11
Next plot	Ctrl+Alt+F12
<b>Show Keyboard Shortcuts</b>	<b>Alt+Shift+K</b>
	<b>Option+Shift+K</b>