

# 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

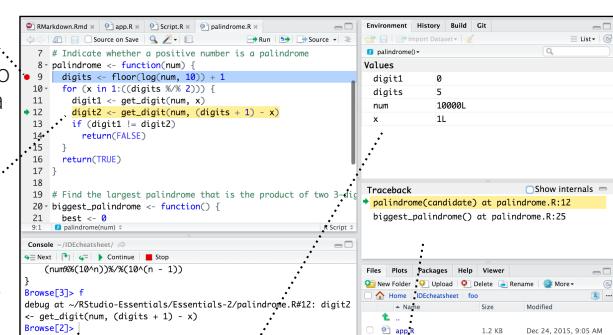
## Debug Mode

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

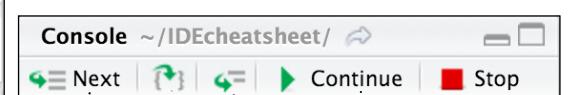
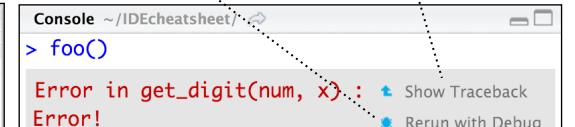


Examine variables in executing environment

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

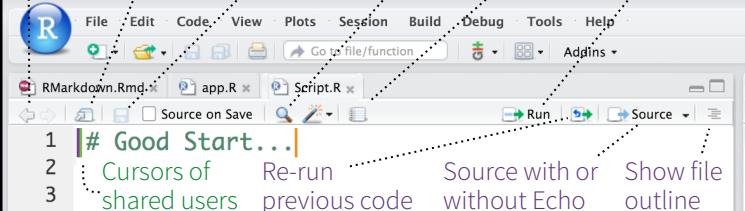
Step into and out of functions to run

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

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.

RStudio opens plots in a dedicated Plots pane

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

Files   Plots   Packages   Help   Viewer

R: Arithmetic Operators   Find in Topic

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

1   5.1   3.5   1.4   0.2   setosa

2   4.9   3.0   1.4   0.2   versicolor

3   4.7   3.2   1.3   0.2   virginica

4   4.6   3.1   1.5   0.2   virginica

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



## 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  
Cmd+X  
Cmd+C  
Cmd+V  
Ctrl+A  
Cmd+A  
Cmd+D  
Shift+[Arrow]  
Option+Shift+ ←/→  
Alt+Shift+ ←  
Alt+Shift+ →  
Shift+PageUp/Down  
Shift+Alt+↑/↓  
Ctrl+Opt+Backspace  
Option+Delete  
Ctrl+K  
Option+Backspace  
Tab (at start of line)  
Shift+Tab  
Ctrl+U  
Ctrl+K  
Ctrl+Y  
Alt+-  
Ctrl+Shift+M  
F1  
F2  
Cmd+Shift+N  
Ctrl+Alt+Shift+N  
Ctrl+O  
Ctrl+S  
Cmd+W  
Cmd+Option+W  
Cmd+Shift+W  
Ctrl+Alt+X  
Cmd+Option+X  
Ctrl+Alt+V  
Cmd+I  
Ctrl+Shift+C  
Ctrl+Shift+/  
Ctrl+Shift+A  
Ctrl+Shift+E  
Ctrl+Shift+E  
Ctrl+Shift+Opt+P  
Ctrl+T  
Option+↑/↓  
Shift+Alt+↑/↓  
Cmd+Option+↑/↓  
Ctrl+Option+Up  
Ctrl+Option+Down  
Ctrl+Option+Shift+Up  
Ctrl+Opt+Shift+Down  
Ctrl+F  
Ctrl+F3  
Ctrl+E  
Ctrl+Shift+J

## 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  
Alt+-  
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+Option+X  
Cmd+Option+V  
Cmd+I  
Cmd+Shift+C  
Cmd+Shift+/  
Cmd+Shift+A  
Cmd+Shift+E  
Cmd+Shift+E  
Cmd+Shift+Opt+P  
Cmd+T  
Option+↑/↓  
Shift+Alt+↑/↓  
Cmd+Option+↑/↓  
Ctrl+Option+Up  
Ctrl+Option+Down  
Ctrl+Option+Shift+Up  
Ctrl+Opt+Shift+Down  
Cmd+F  
Cmd+F3  
Cmd+E  
Cmd+Shift+J

## 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

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
<b>Ctrl+Shift+L</b>	<b>Cmd+Shift+L</b>
<b>Ctrl+Shift+T</b>	<b>Cmd+Shift+T</b>
Ctrl+Alt+F7	Cmd+Opt+F7
Ctrl+Shift+E	Cmd+Shift+E
<b>Ctrl+Shift+D</b>	<b>Cmd+Shift+D</b>

## 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
<b>Ctrl+Shift+K</b>	<b>Cmd+Shift+K</b>
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+R	Cmd+Option+R
<b>Ctrl+Alt+B</b>	<b>Cmd+Option+B</b>
<b>Ctrl+Alt+T</b>	<b>Cmd+Option+T</b>
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
<b>Alt+Shift+K</b>	<b>Option+Shift+K</b>