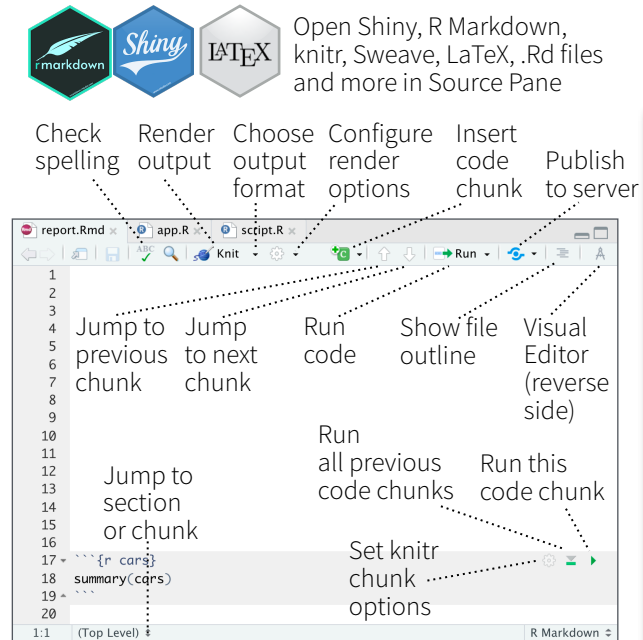


RStudio IDE :: CHEATSHEET

Documents and Apps



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

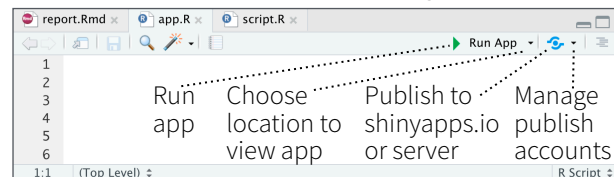
Check spelling, Render output, Choose output format, Configure render options, Insert code chunk, Publish to server

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

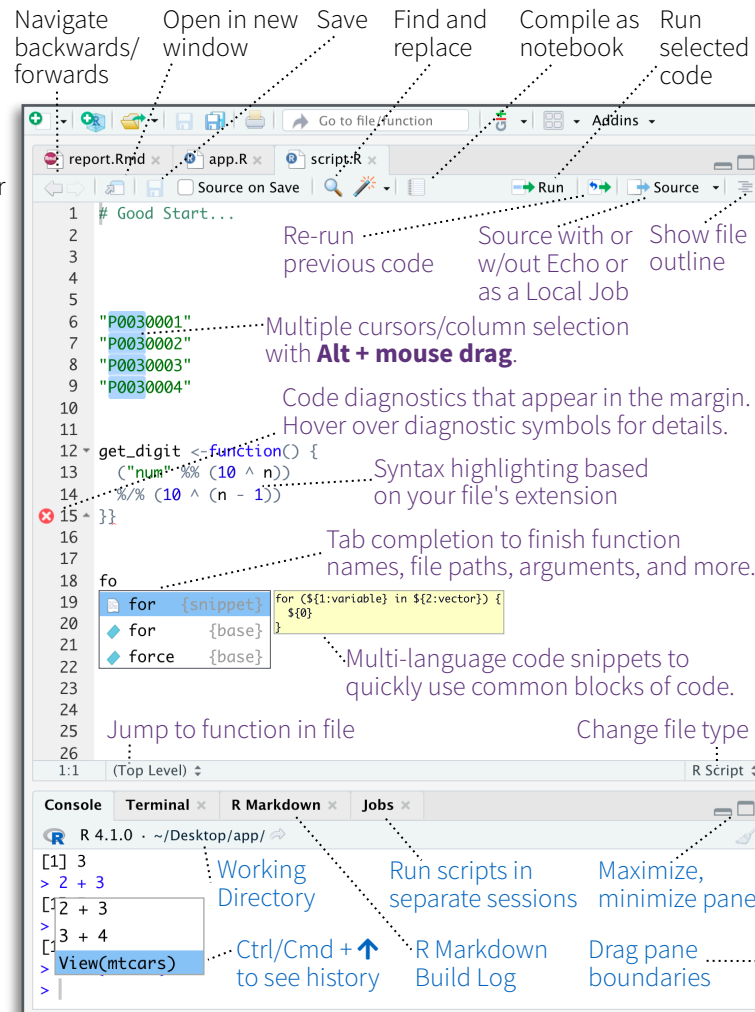
Access markdown guide at **Help > Markdown Quick Reference**
See reverse side for more on **Visual Editor**

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



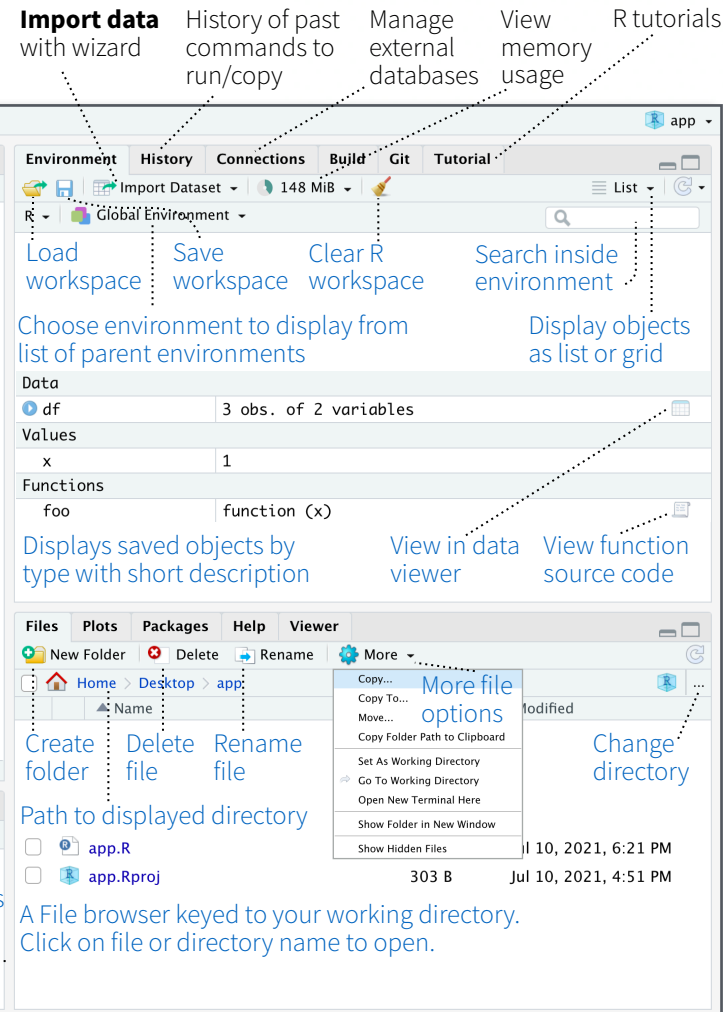
Navigate backwards/forwards, Open in new window, Save, Find and replace, Compile as notebook, Run selected code

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



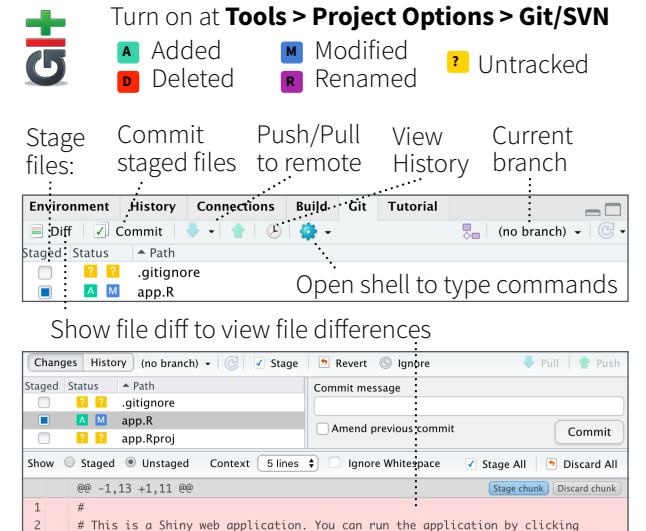
Import data with wizard, History of past commands to run/copy, Manage external databases, View memory usage, R tutorials

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**

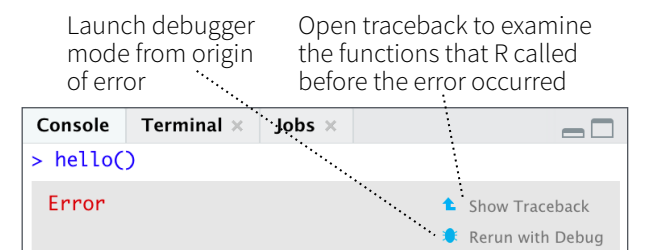
Added, Deleted, Modified, Renamed, Untracked

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

Error, Show Traceback, Rerun with Debug

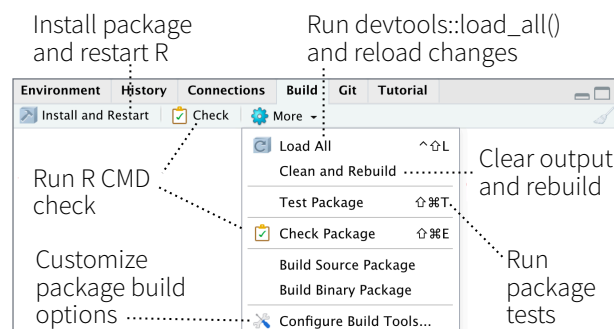
Package Development

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

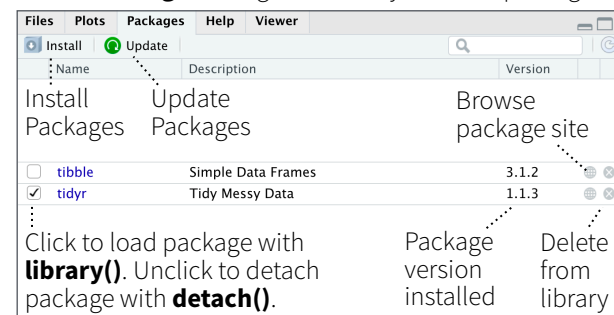
Run R CMD check, Customize package build options, Clear output and rebuild, Run package tests

RStudio opens plots in a dedicated **Plots** pane



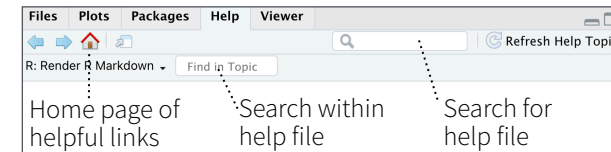
Navigate recent plots, Open in window, Export plot, Delete plot, Delete all plots

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



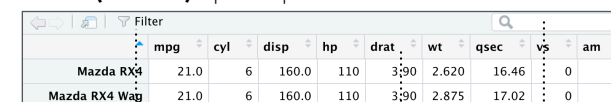
Home page of helpful links, Search within help file, Search for help file

Viewer pane displays HTML content, such as Shiny apps, RMarkdown reports, and interactive visualizations



Stop Shiny app, Publish to shinyapps.io, rpubs, RSConnect, ..., Refresh

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

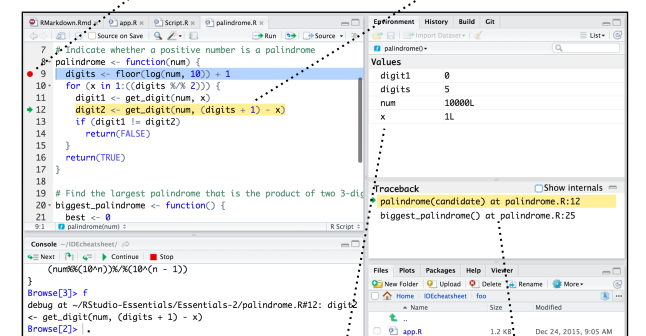


	mpg	cyl	displacement	horsepower	weight	quarter mile time	vs	am	
Mazda RX4	21.0	6	160.0	110	3.90	2.620	16.46	0	1
Mazda RX4 Wag	21.0	6	160.0	110	3.90	2.875	17.02	0	1

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

Run commands in environment where execution has paused, Examine variables in executing environment, Select function in traceback to debug



Console, Terminal, Jobs

Next, Step into and out of functions to run, Continue, Resume execution, Stop, Quit debug mode

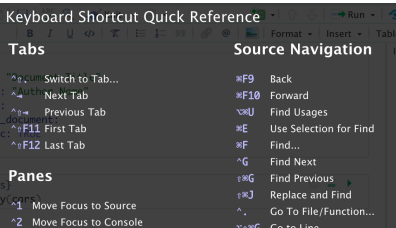
Step through code one line at a time, Step into and out of functions to run, Resume execution, Quit debug mode

Keyboard Shortcuts

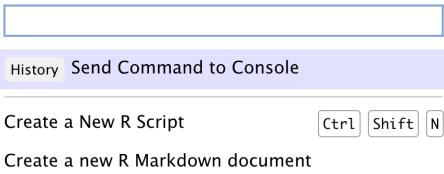
RUN CODE	Windows/Linux	Mac
Search command history	Ctrl+↑	Cmd+↑
Interrupt current command	Esc	Esc
Clear console	Ctrl+L	Ctrl+L
NAVIGATE CODE		
Go to File/Function	Ctrl+.	Ctrl+.
WRITE CODE		
Attempt completion	Tab or Ctrl+Space	Tab or Ctrl+Space
Insert <- (assignment operator)	Alt+-	Option+-
Insert > or %>% (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		
Knit 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)

File outline

Insert and edit tables

Insert blocks, citations, equations, and special characters

More formatting

Lists and block quotes

Links

Citations

Images

Clear formatting

Insert verbatim code

Add/Edit attributes

Set knitr chunk options

Run this and all previous code chunks

Run this code chunk

Jump to chunk or header

R Markdown

R Markdown document content:

```
title: "Document Title"
author: "Author Name"
output:
  html_document:
    toc: TRUE
```

```
{r setup, include=FALSE}
knitr::opts_chunk$set(echo = TRUE)
```

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

```
{r cars}
summary(cars)
```

RStudio Workbench



WHY RSTUDIO 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 www.rstudio.com/products/workbench/evaluation/

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.

Start new R Session in current project

Close R Session in project

Active shared collaborators

Name of current project

Share Project with Collaborators

Select R Version

Run Remote Jobs

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

Monitor launcher jobs

Launch a job

Run launcher jobs remotely

Job Name	Status	Location	Time
fast.R	Running	Local	0:09
sleepy.R	Succeeded 11:22 AM	Local	0:41
sleepy.R	Idle	KubernetesX	Waiting