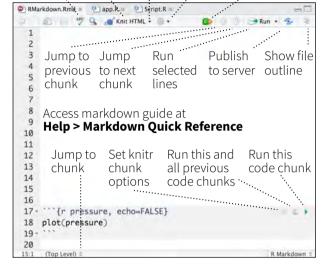
# RStudio IDE:: CHEAT SHEET

# **Documents and Apps**



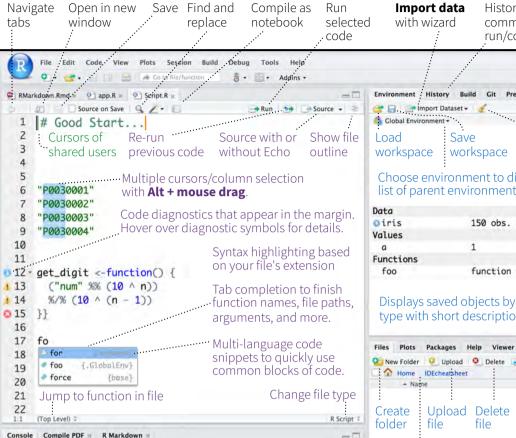
Check Render Choose Choose Insert spelling output output output code location chunk format



RStudio recognizes that files named app.R. server.R, ui.R, and global.R belong to a shiny app



## Write Code

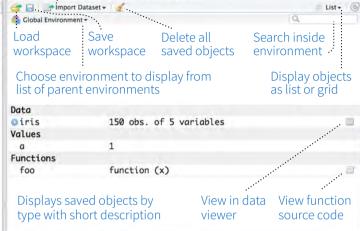


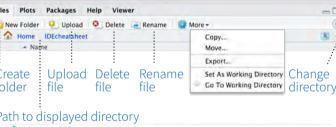
# R Support

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

garrett 🕒 Sessions = 😩 🌘

IDEcheatsheet • R 3.2.2 •



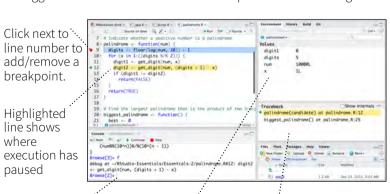


Path to displayed directory e hello.R Apr 13, 2016, 11:17 AM A File browser keyed to your working directory.

Click on file or directory name to open.

# **Debug Mode**

Open with **debug()**, **browser()**, or a breakpoint. RStudio will open the debugger mode when it encounters a breakpoint while executing code.



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

Launch debugger mode from origin of error Console ~/IDEcheatsheet/

foo()

function(x) x + 1

foo(1)

> foo(2)

foo(2)

foo(1)

[1] 2

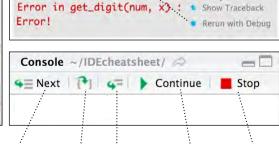
Open traceback to examine the functions that R called before the error occurred

Maximize,

Drag pane ···

boundaries

minimize panes



· Working

Directory

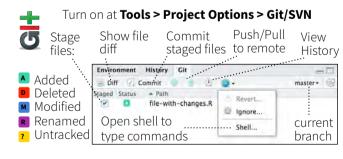
Press **1** to see

command history

Step through Step into and Resume Ouit debug code one line out of functions execution mode

Roxygen guide at Help > Roxygen Quick Reference

## Version Control with Git or SVN



# **Package Writing**



Enable roxygen documentation with **Tools > Project Options > Build Tools** 

Check Parkage **Build Binary Package** 

Clean and Rebuild

XXF7

Test Package

### **Pro Features**

Name of

current project

**Share Project** 

with Collaborators... collaborators Start new R Session in current project T H J garrett 🕒 Sessions - 🖅 🕖 IDEcheatsheet + R 3.2.2 + Close R Session in New Project.. ✓ R version 3.2.2 project R version 3.1.3 Close Project R version 3.0.3 Select Share Project.. R version 2.15.3 **R Version IDEcheatsheet** RStudio-Essentials **PROJECT SYSTEM** shiny-examples File > New Project Clear Project List RStudio saves the call history, Project Options.. workspace, and working directory associated with a

Active shared

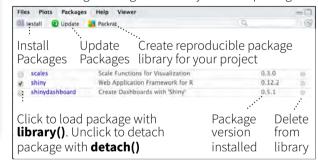
RStudio opens plots in a dedicated Plots pane

project. It reloads each when

you re-open a project.



GUI Package manager lists every installed package



RStudio opens documentation in a dedicated Help pane



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



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

Sepal.Length	Sepal.Width	Petal.Length	Petal.Width	Species
A//	All	All	All	All
1 5,1	3.5	1.4	0.2	setosa
Filter rows or value ra		<i>:</i> Sort valu		i earch or valu



1 LAYOUT	,	Mac
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**

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 Ouit 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

Source the current file

Source with echo

Fold Selected

Fold All

Unfold All

Go to line

Jump to

Next tab

First tab

Last tab

Switch to tab

Previous tab

Navigate back

Jump to Brace

Find in Files

Find Previous

Jump to Word

Toggle Outline

Jump to Start/End

Find Next

Navigate forward

Select within Braces

Use Selection for Find

**Unfold Selected** 

**3 NAVIGATE CODE** 

**Goto File/Function** 

Windows/Linux Mac Ctrl+**↑** Cmd+**↑ 1**/**\P**  $\Lambda/\Psi$ Home Cmd+**←** End Cmd+→ Ctrl+Shift+H Ctrl+Shift+H Esc Esc Ctrl+L Ctrl+L Ctrl+O Cmd+O

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 Cmd+Shift+S

Ctrl+Shift+S Ctrl+Shift+Enter

**Windows / Linux** 

Ctrl+Shift+Alt+E

Win: F3, Linux: Ctrl+G

Ctrl+Shift+F

W: Shift+F3. L:

Ctrl+ **←/→** 

Ctrl+**↑/**↓

Ctrl+Shift+O

Ctrl+F3

# Mac

Ctrl+. Ctrl+. Alt+L Cmd+Option+L Shift+Alt+L Alt+O Cmd+Option+O Shift+Alt+O Shift+Alt+G Shift+Alt+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

Cmd+Shift+Option+L Cmd+Shift+Option+O Cmd+Shift+Option+G Cmd+Shift+Option+J Ctrl+P Ctrl+Shift+Option+E Cmd+E Cmd+Shift+F Cmd+G Cmd+Shift+G Option+ **←/→** 

Cmd+**↑/↓** 

Cmd+Shift+O

Cmd+Shift+Enter

#### Windows /Linux **4 WRITE CODE**

**Attempt completion** 

Navigate candidates

Accept candidate

Undo

Redo

Cut

Copy

Paste

Select

Indent

Outdent

Insert <-

Insert %>%

Select All

Delete Line

Select Word

Select to Line Start

Select to Line End

Select to Start/End

Delete Word Left

Delete Word Right

Delete to Line End

Delete to Line Start

Yank line up to cursor

Yank line after cursor

Show help for function

New document (Chrome)

Close document (Chrome)

Close all documents

(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

Use Selection for Find

Find and Replace

Insert vanked text

Show source code

New document

Open document

Save document

Close document

Extract function

Extract variable

Reindent lines

Select Page Up/Down

Dismiss candidates

Tab or Ctrl+Space 个/少 Enter, Tab, or → Esc Ctrl+7 Ctrl+Shift+Z Ctrl+X Ctrl+C Ctrl+V Ctrl+A Ctrl+D Shift+[Arrow] Ctrl+Shift+ **←/→** Alt+Shift+**←** Alt+Shift+**→** Shift+PageUp/Down Ctrl+Backspace

Mac

 $\Lambda/\Psi$ 

Fsc

Cmd+7

Cmd+X

Cmd+C

Cmd+V

Cmd+A

Cmd+D

Shift+[Arrow]

Cmd+Shift+**←** 

Cmd+Shift+→

Option+Shift+ **←/→** 

Shift+PageUp/Down

Ctrl+Opt+Backspace

Option+Backspace

Tab (at start of line)

Cmd+Shift+**↑/↓** 

Option+Delete

Ctrl+K

Shift+Tab

Ctrl+U

Ctrl+K

Ctrl+Y

F1

F2

Option+-

Cmd+Shift+M

Cmd+Shift+N

Cmd+O

Cmd+S

Cmd+W

Cmd+Shift+Opt+N

Cmd+Option+W

Cmd+Shift+W

Cmd+Option+X

Cmd+Option+V

Tab or Cmd+Space

Enter, Tab, or →

Cmd+Shift+Z

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 Move Active Cursor Down Ctrl+Alt+Shift+Down

Ctrl+F

Ctrl+F3

Cmd+I Cmd+Shift+C Cmd+Shift+/ Cmd+Shift+A Ctrl+Shift+E Cmd+Shift+Opt+P Ctrl+T Option+**↑/**↓ Cmd+Option+**↑/**↓ Ctrl+Option+Up Ctrl+Option+Down Ctrl+Option+Shift+Up Ctrl+Opt+Shift+Down Cmd+F Cmd+E 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/

#### **5 DEBUG CODE** Windows/Linux Mac Toggle Breakpoint

**Execute Next Line** Step Into Function Finish Function/Loop Continue

#### **6 VERSION CONTROL**

Stop Debugging

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

#### **7 MAKE PACKAGES**

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

### **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 Ctrl+Alt+F11 Next plot Ctrl+Alt+F12 **Show Keyboard Shortcuts** Alt+Shift+K

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

#### Windows/Linux Mac

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

#### Windows/Linux Mac

Ctrl+Shift+B Cmd+Shift+B Cmd+Shift+L Ctrl+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

#### Windows/Linux Mac

Ctrl+Alt+C

Ctrl+Alt+N

Ctrl+F8

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

Cmd+Option+C Cmd+Option+N Cmd+F8 Cmd+Option+F11

Cmd+Option+F12 Option+Shift+K

Replace and Find Ctrl+Shift+J