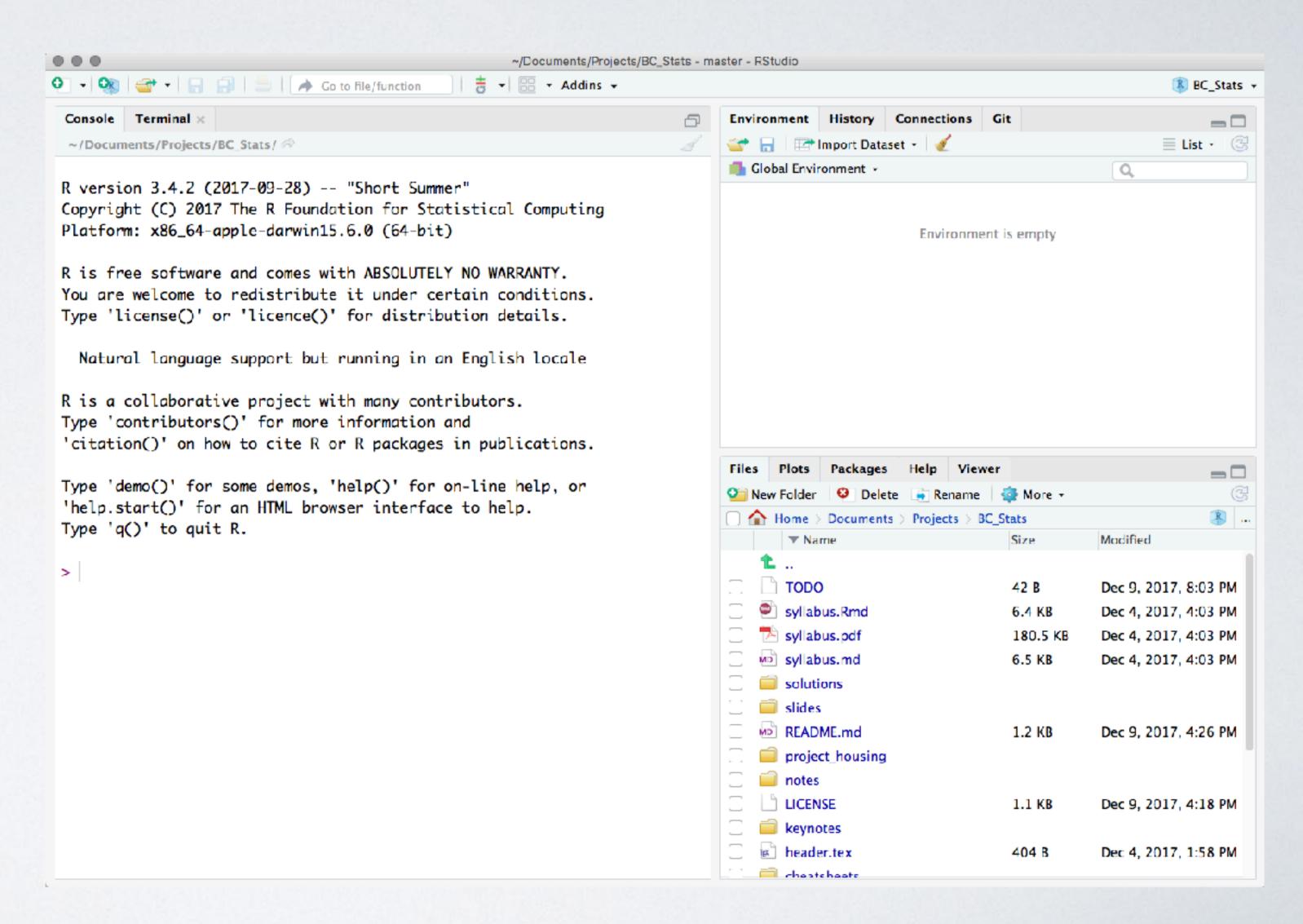
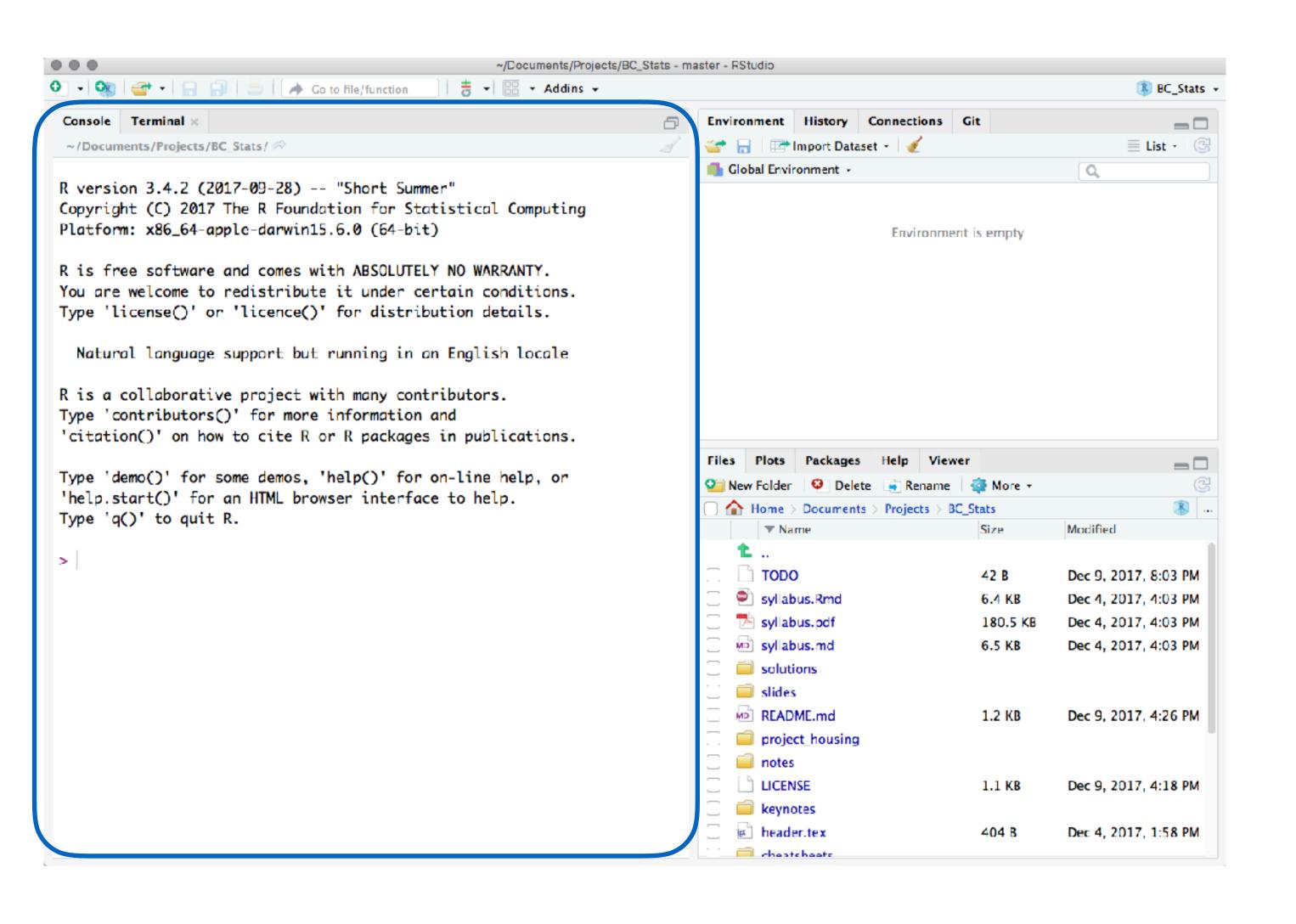
Getting Started with R and RStudio

If you haven't already, open up the r_intro_bc_stats.Rproj file.

This should open up RStudio.





Console

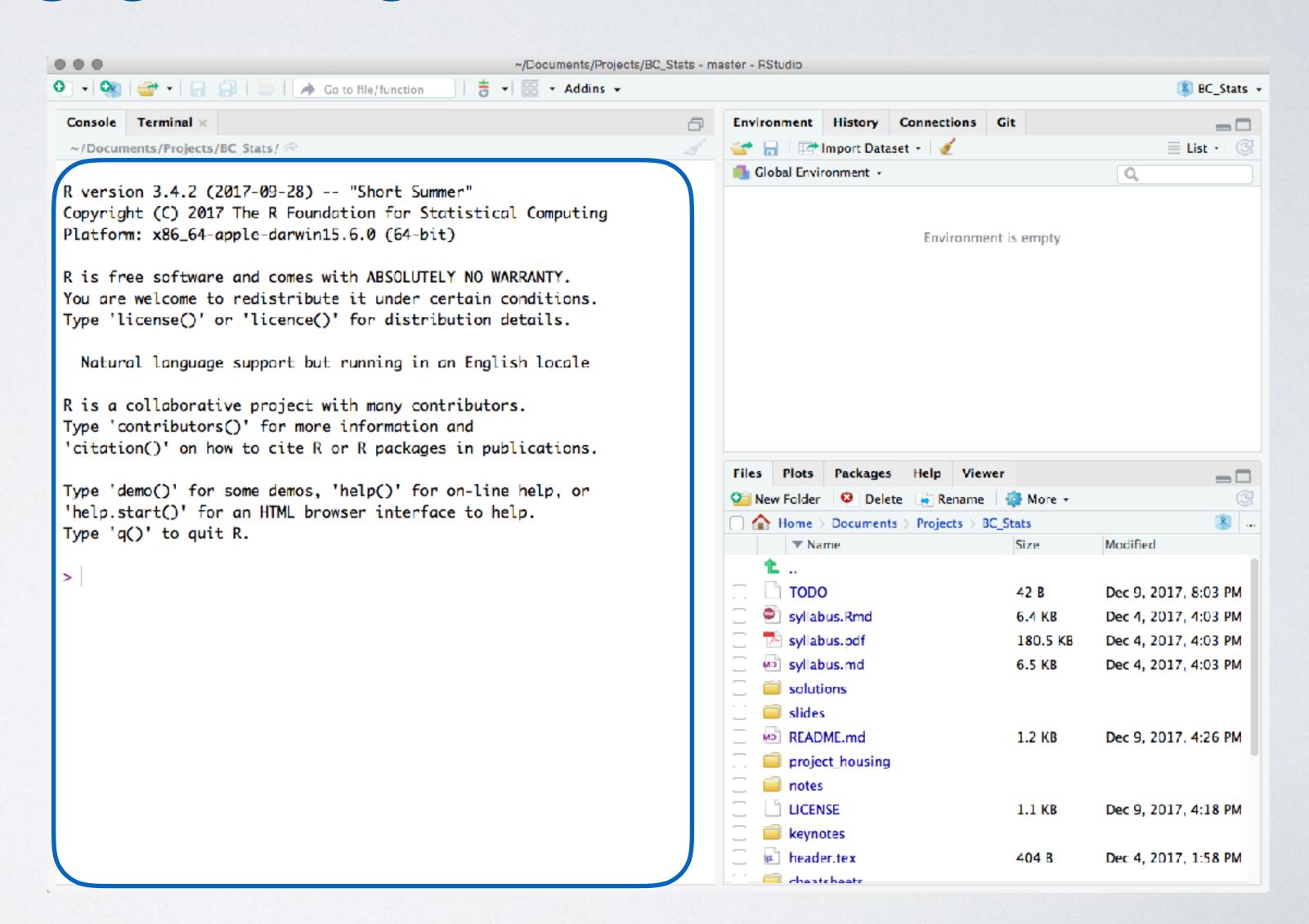
R is awaiting your instructions

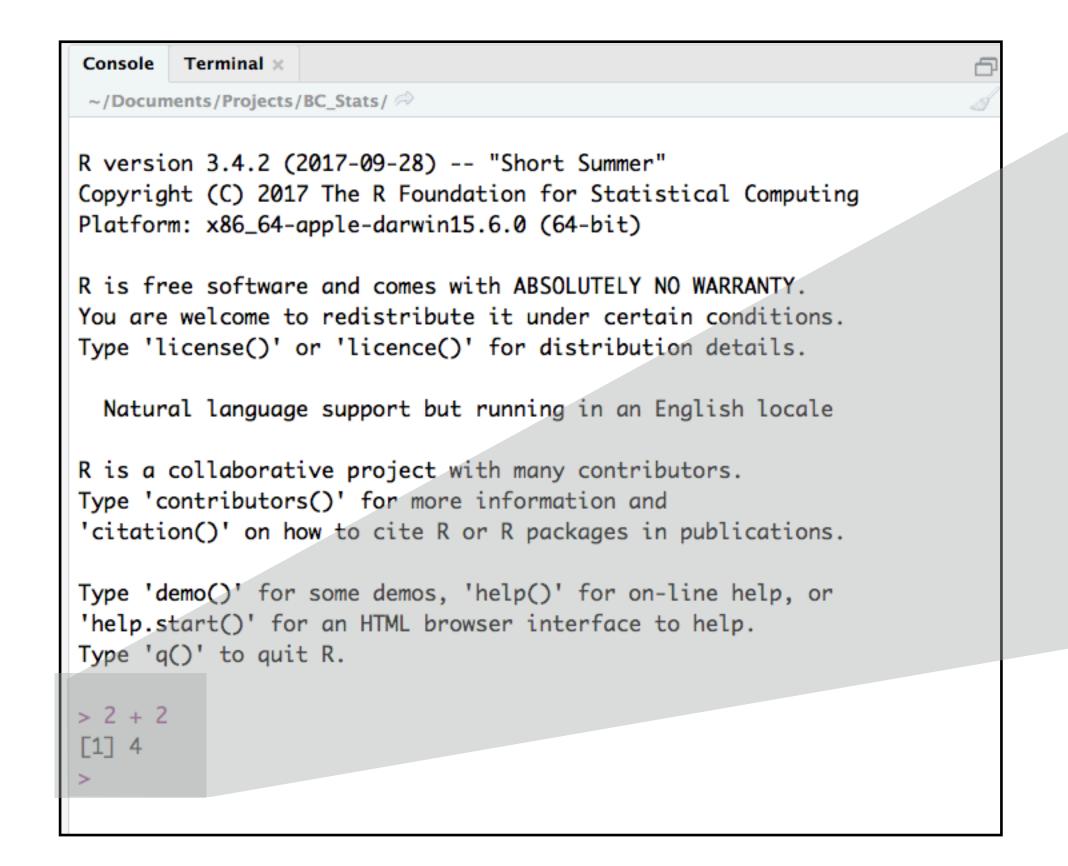
You can type code here, hit Enter, and R will evaluate it,

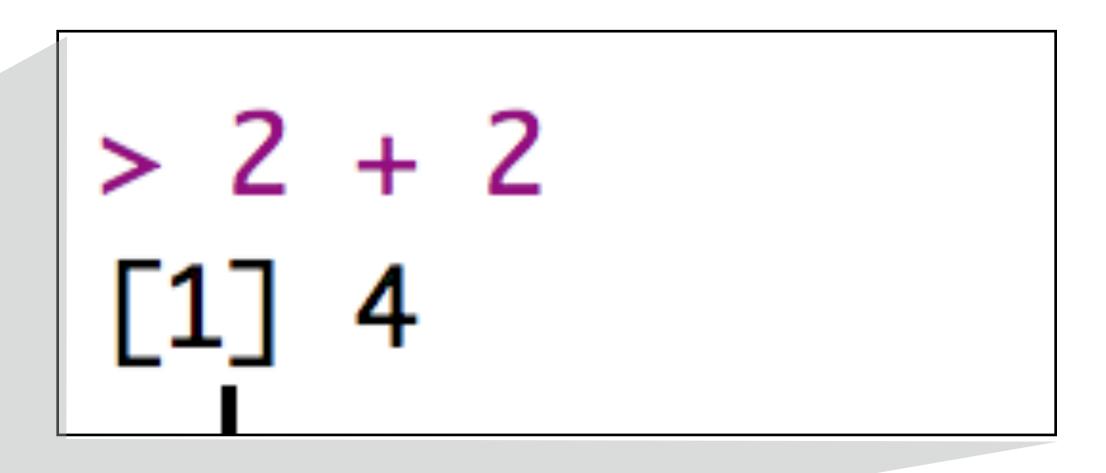
a.k.a "running code"

Into the console, type: 2 + 2

Then hit Enter

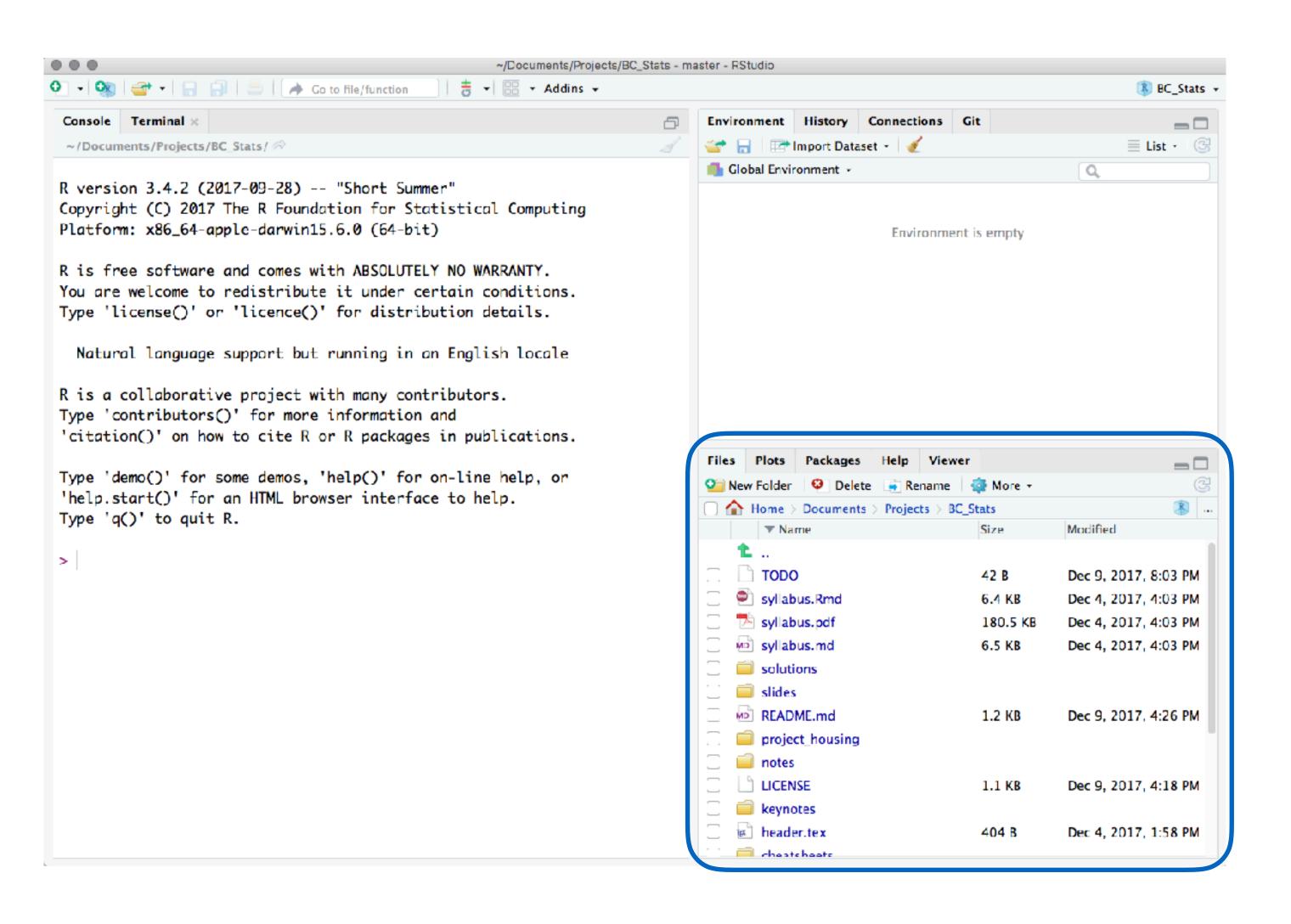






You asked, and R answered, but this is ephemeral.

In practice you'll keep your R code in a document.



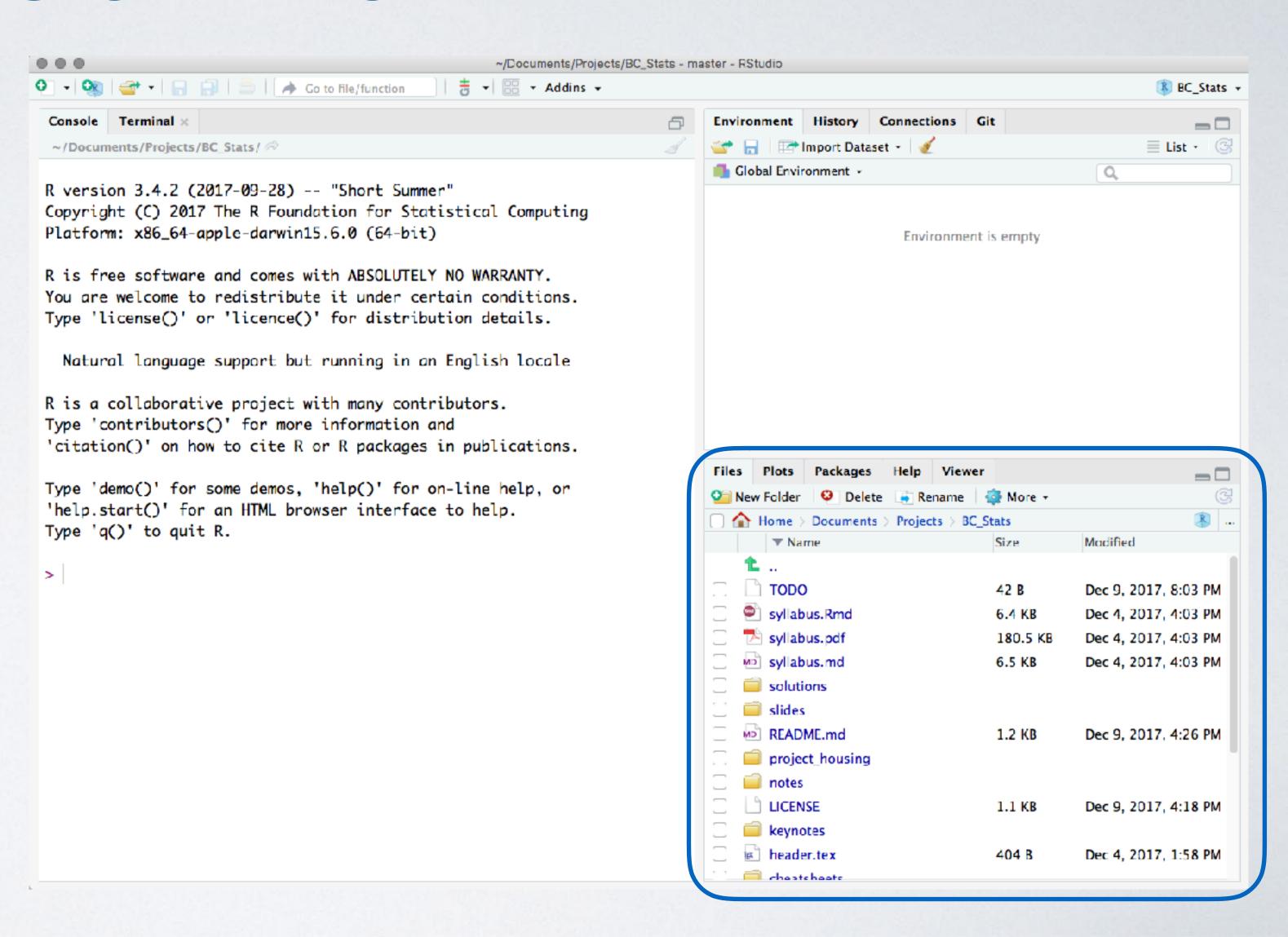
Files Pane

Files in your current working directory.

In the Files Pane,

Find 01-Gettingstarted.Rmd

Click on it's name to open the file.



```
01-Getting-started.Rmd
     ** Insert ▼ | ↑ → Run ▼ | * ▼ | *
     title: "Getting Started with R and RStudio"
      output: html_document
     <!-- This file by Charlotte Wickham is licensed under a Creative
      Commons Attribution 4.0 International License. -->
   8 - ```{r setup}
                                                                ⊕ ▶
     library(tidyverse)
  11
  12 - ## R Markdown
  13
     This is an [R Markdown](http://rmarkdown.rstudio.com) file (it
      has a .Rmd file extension). When you execute code within the
      file, the results appear beneath the code.
  15
  16 R code goes in **code chunks**, denoted by three backticks. Try
      executing this chunk by clicking the *Run* button (a small green
      triangle) within the chunk or by placing your cursor inside it
      and pressing *Ctrl+Shift+Enter* (or *Cmd+Shift+Enter* on Mac).
      ```{r}
 18 -
 ⊕
 ggplot(data = mpg) +
 geom_point(mapping = aes(x = cty, y = hwy), alpha = 0.2)
 R Markdown
 Console Terminal ×
 R Markdown
 ~/Documents/Projects/BC_Stats/ @
CC BY Charlotte Wickham
```

#### **Source Pane**

Documents open up here.

```
01-Getting-started.Rmd
 Insert + A B Run + C +
 ABC Q Knit + 63 +
 title: "Getting Started with R and RStudio"
 output: html_document
 <!-- This file by Charlotte Wickham is licensed under a Creative
 Commons Attribution 4.0 International License. -->
 8 - ```{r setup}
 -@} ▶
 library(tidyverse)
 11
 12 - ## R Markdown
 This is an [R Markdown](http://rmarkdown.rstudio.com) file (it
 has a .Rmd file extension). When you execute code within the
 file, the results appear beneath the code.
 15
 R code goes in **code chunks**, denoted by three backticks. Try
 executing this chunk by clicking the *Run* button (a small green
 triangle) within the chunk or by placing your cursor inside it
 and pressing *Ctrl+Shift+Enter* (or *Cmd+Shift+Enter* on Mac).
 18 -
       ```{r}

⊕ 

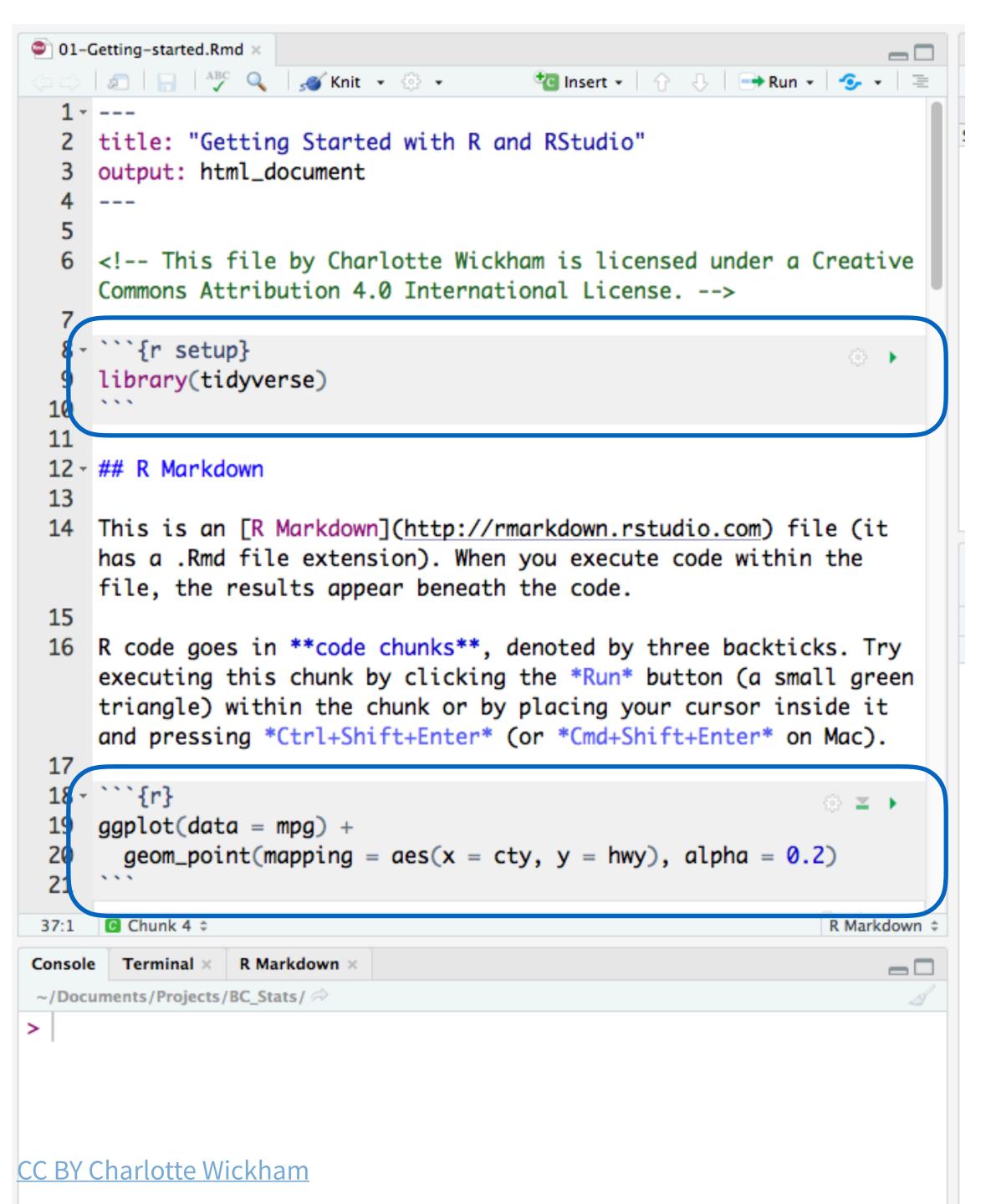
▼ 

▶

      ggplot(data = mpg) +
        geom_point(mapping = aes(x = cty, y = hwy), alpha = 0.2)
       R Markdown
                 R Markdown
 Console Terminal ×
 ~/Documents/Projects/BC_Stats/ @
CC BY Charlotte Wickham
```

An authoring format for Data Science

01-Getting-started.Rmd is an RMarkdown file.

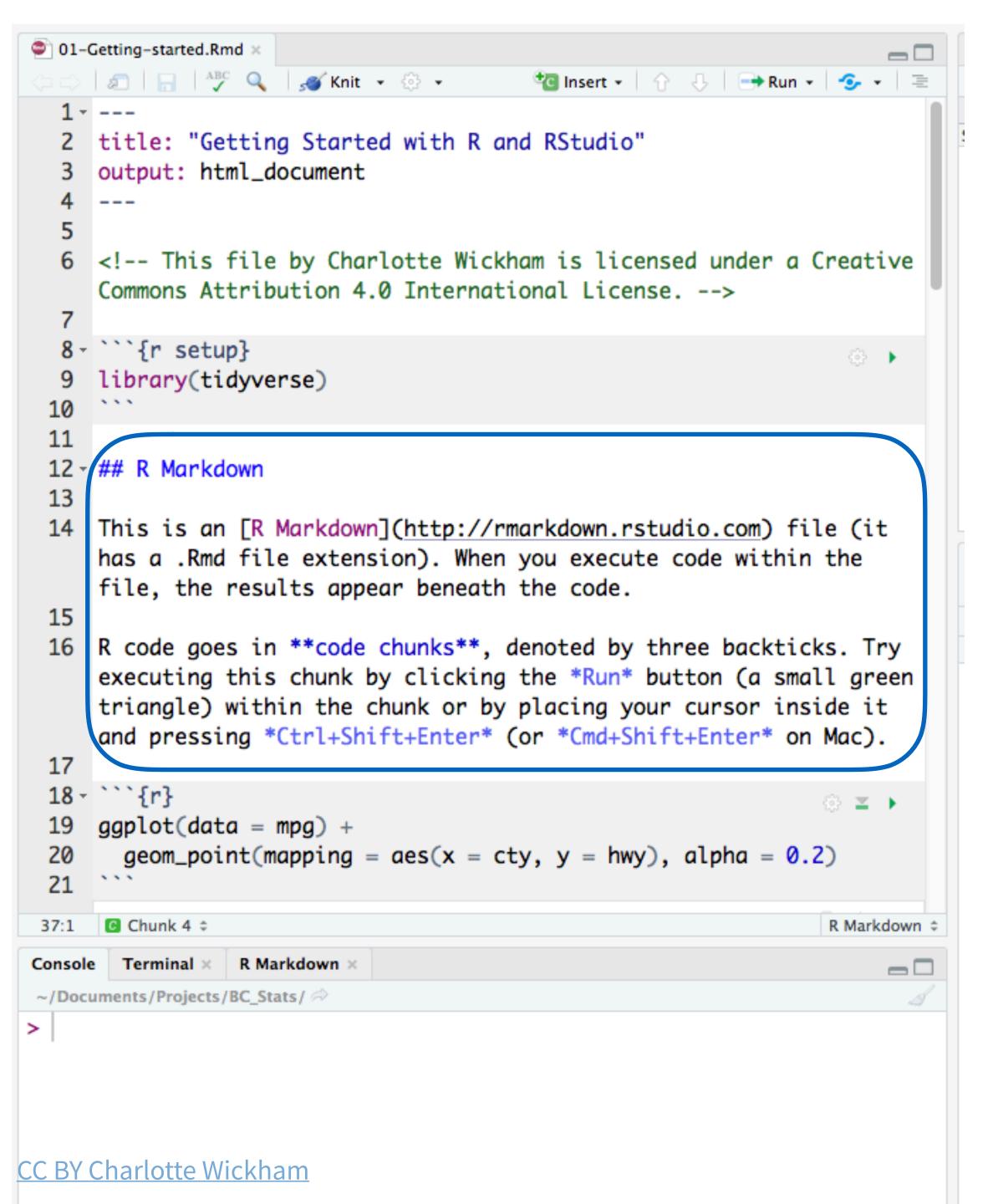


An authoring format for Data Science

01-Getting-started.Rmd is an RMarkdown file.

Integrates:

Code

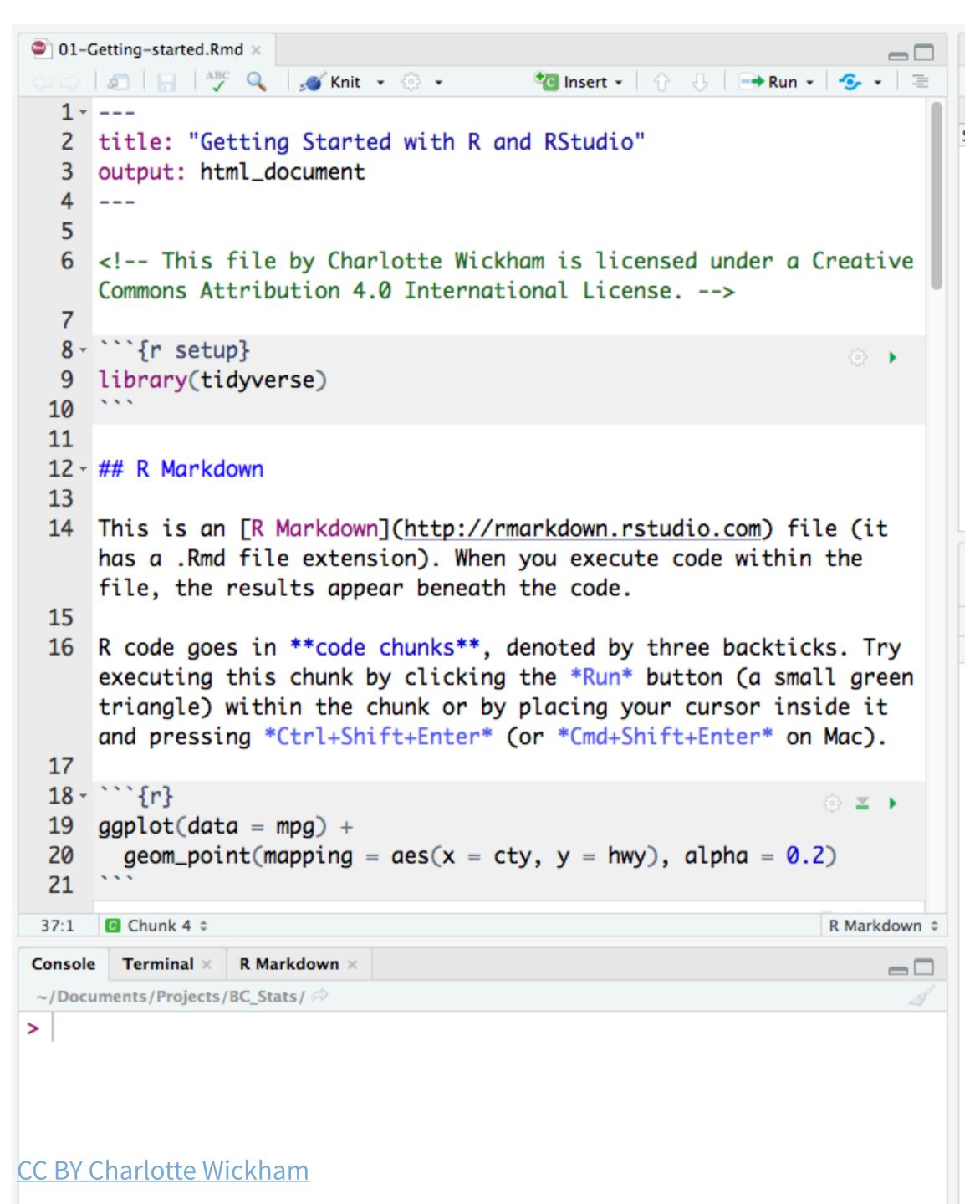


An authoring format for Data Science

01-Getting-started.Rmd is an RMarkdown file.

Integrates:

- Code
- Text



An authoring format for Data Science

01-Getting-started.Rmd is an RMarkdown file.

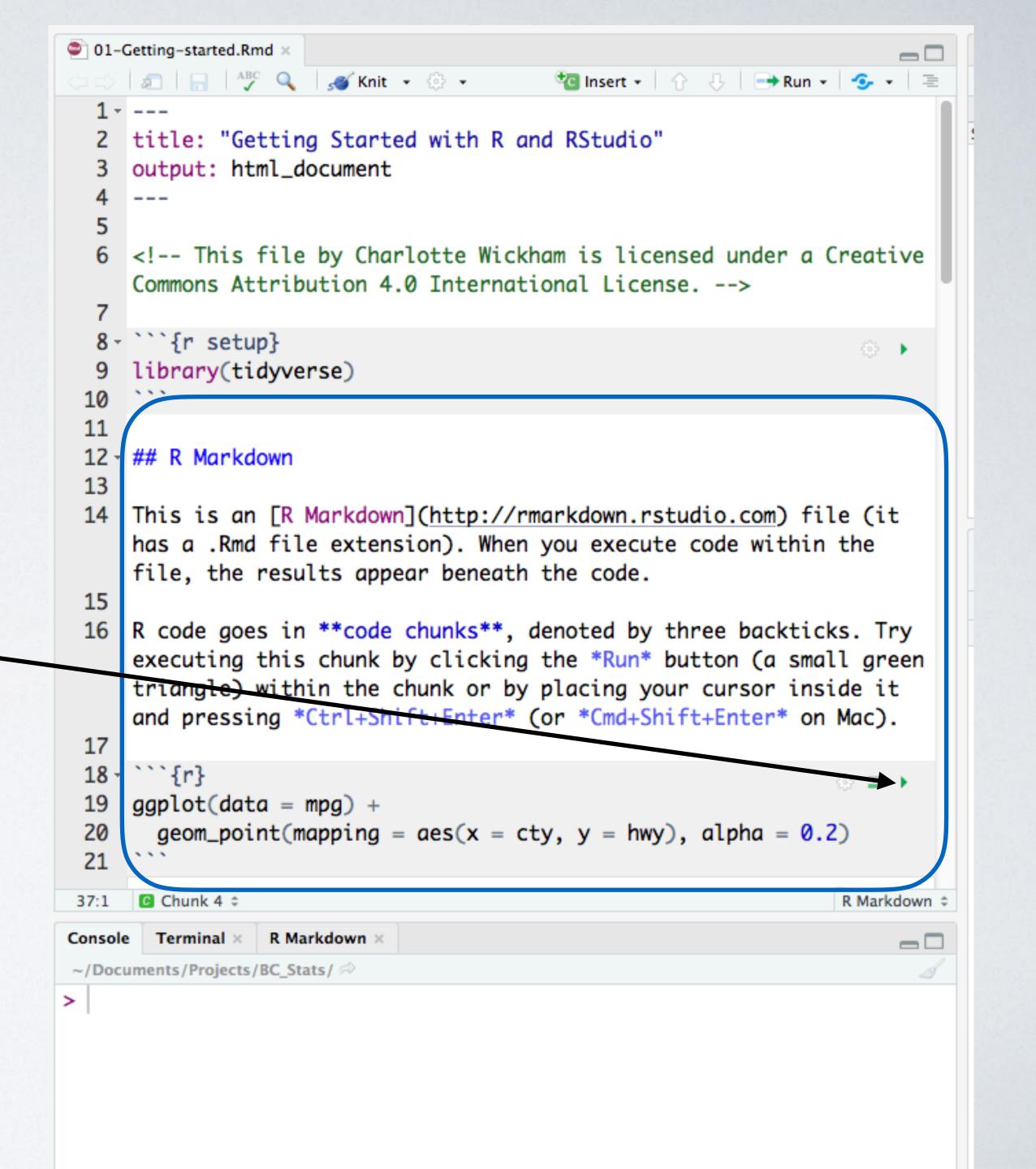
Integrates:

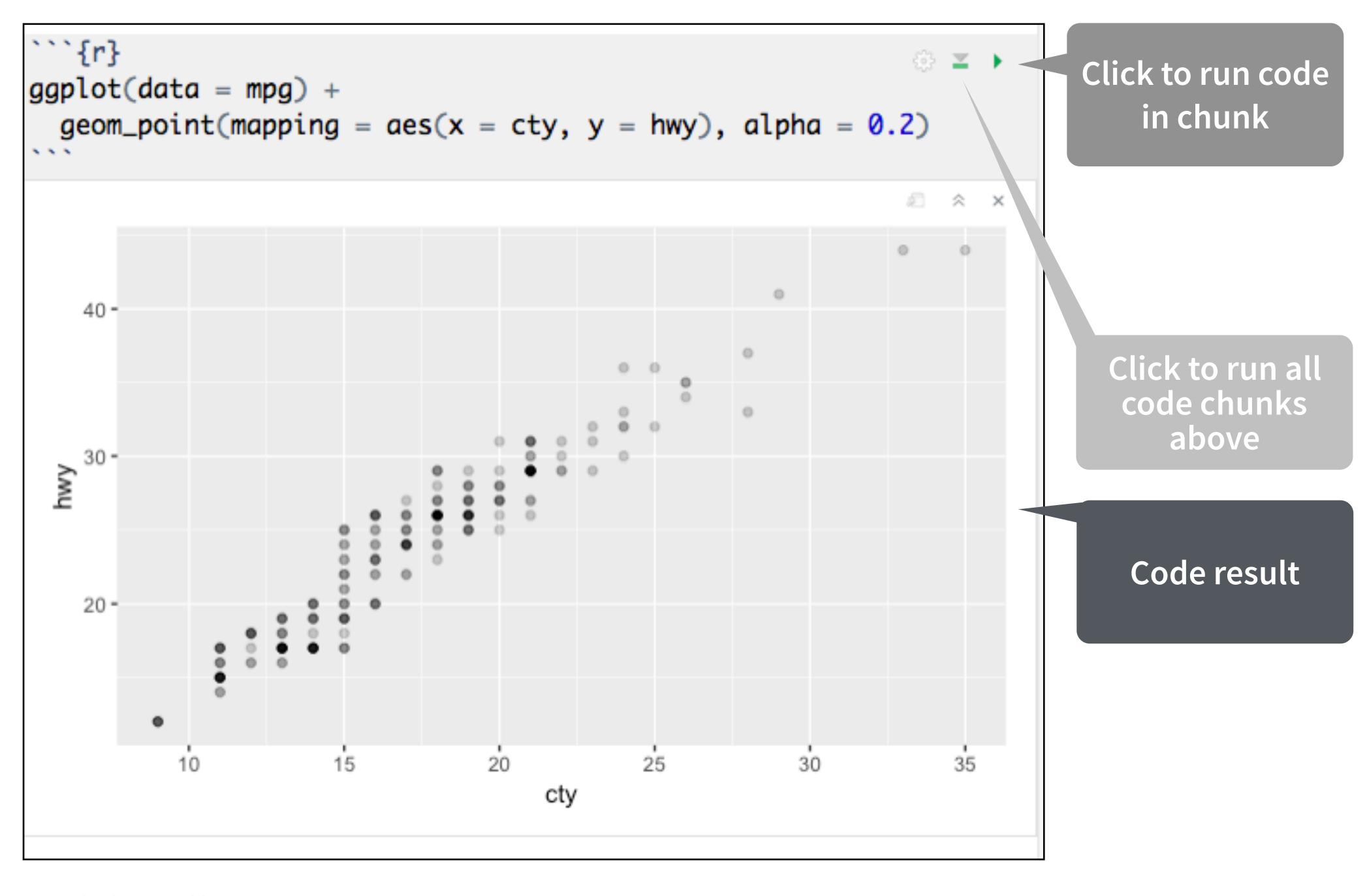
- Code
- Text
- Output

Read the instructions.

Run the code by hitting the play button,

or using the keyboard shortcut.





Keep going!

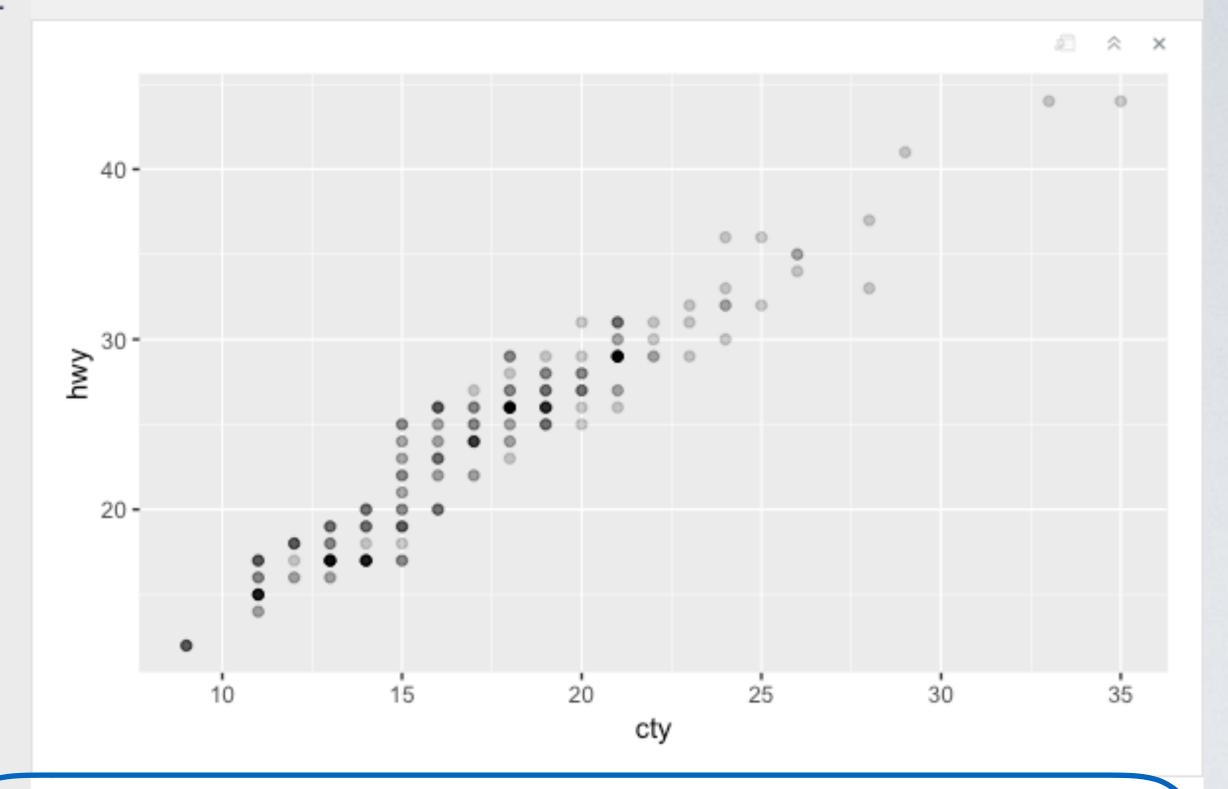
Add a new code chunk.

Put:

$$2 + 2$$

in your new chunk and run it.

executing this chunk by clicking the *Run* button (a small green triangle) within the chunk or by placing your cursor inside it and pressing *Ctrl+Shift+Enter* (or *Cmd+Shift+Enter* on Mac).



```
23 - ## Add a new code chunk
```

17

26

28

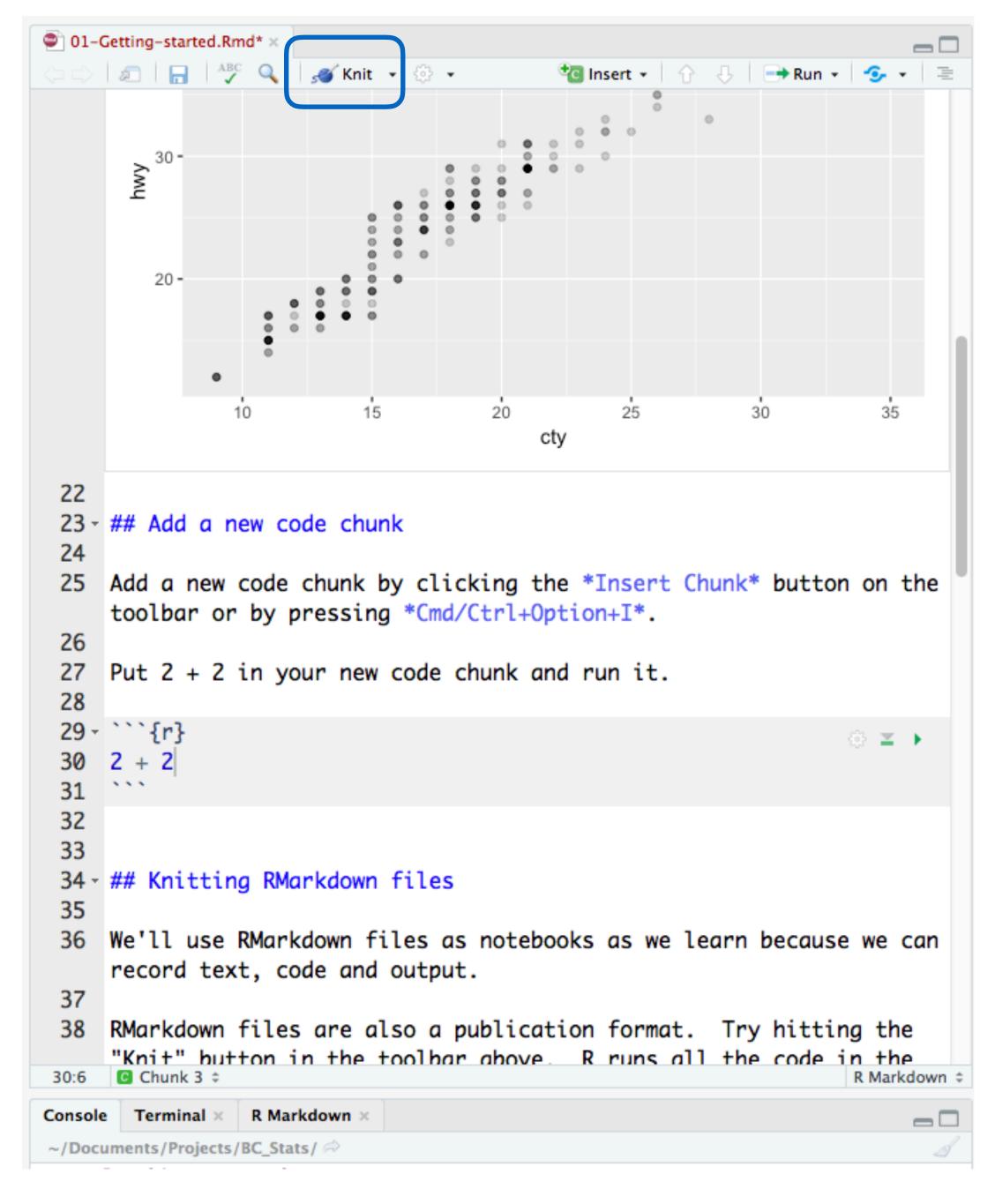
Add a new code chunk by clicking the *Insert Chunk* button on the toolbar or by pressing *Cmd/Ctrl+Option+I*.

7 Put 2 + 2 in your new code chunk and run it.

```
01-Getting-started.Rmd ×
                                       * Insert - ↑ → Run - 5 - =
   🗦 🔝 🔚 👫 🔍 🎜 Knit 🕶 💮 🕶
     and pressing *Ctrl+Shift+Enter*
                                              ift+Enter* on Mac).
 17
                                              Insert a new R chunk
                                     Bash
     ```{r}
 18 -
 ⊕ ▼ ▶
 Python
 ggplot(data = mpg) +
 geom_point(mapping = aes(x = c) Rcpp
), alpha = 0.2
 SQL
 Stan
```

```
27 Put 2 + 2 in your new code chunk and run it.
28
29 - ```{r}
30 2 + 2
31
32
33
```

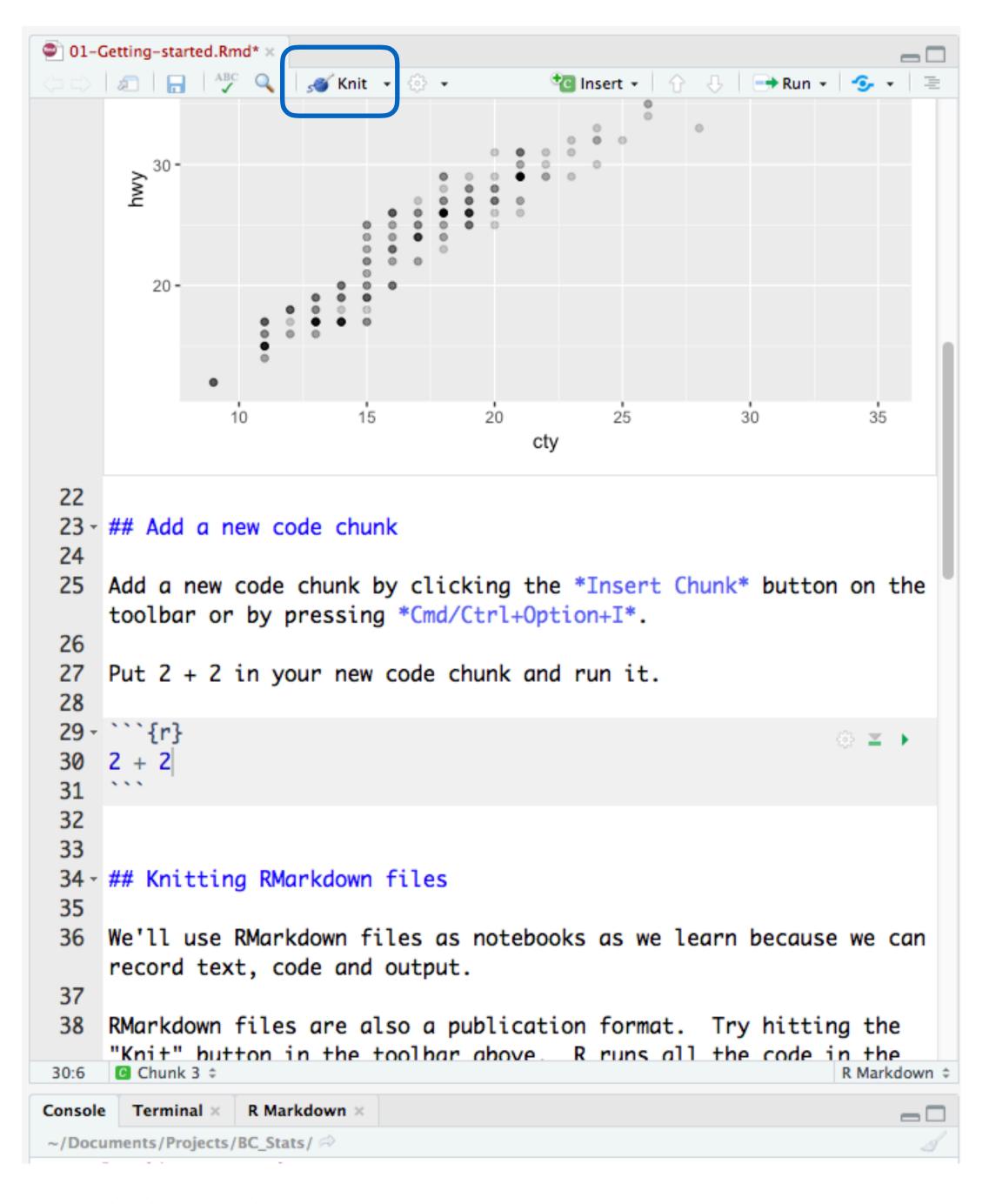
### Insert new code chunk



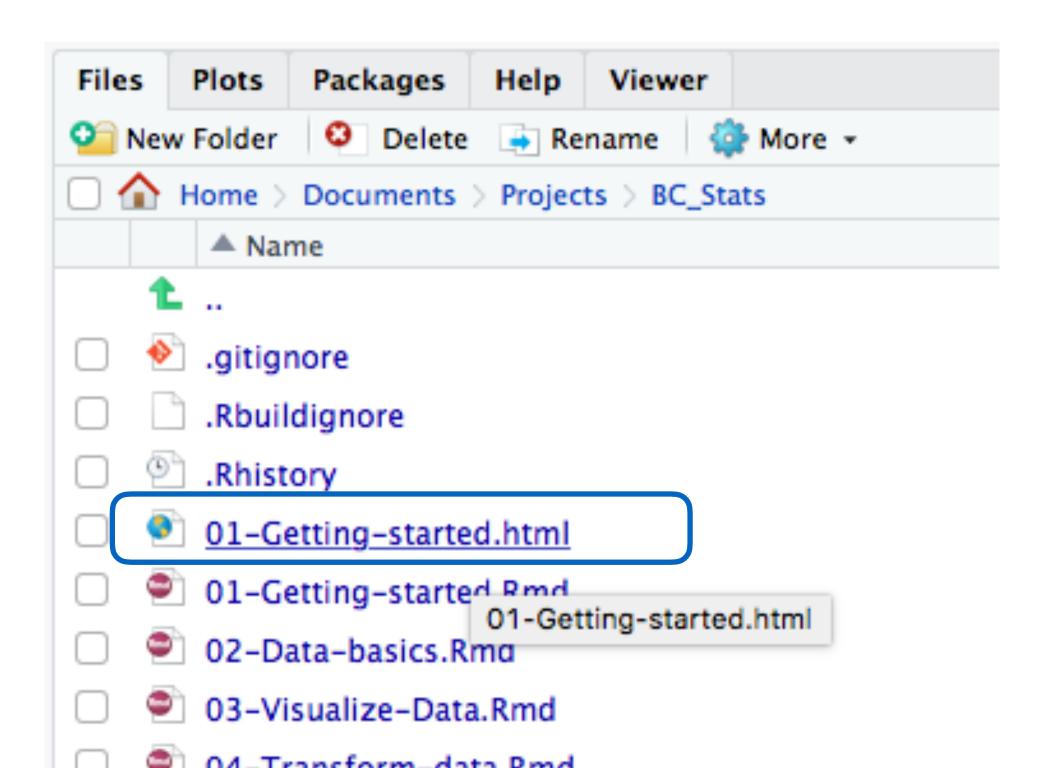
#### **CC BY Charlotte Wickham**

### RMarkdown

Also a way publish your work. You can create an HTML version, by hitting Knit.



The result is stand-alone, you can email it to your friends.



An easy way to combine R code and narrative Useful for us:

- I'll provide starter code
- You can complete "Your Turns"
- At the end, a useful record for you

1. Spot the difference

```
four_cyls <- filter(mtcars, cyl == 4)
```

2. Find these chunks in the notebook and run them, what's different about what happens?

```
30
31 * ## Assigning variables
32
33 What's the difference between the code in this chunk:
34 * ```{r}
35 filter(mtcars, cyl == 4)
```
36
37
38 And the code in this chunk?
39 * ```{r}
40 four_cyls <- filter(mtcars, cyl == 4)

*``
41
42
```

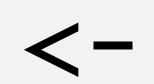
Does something (?) and output is displayed

Does the exact same thing but output is stored in variable four_cyls

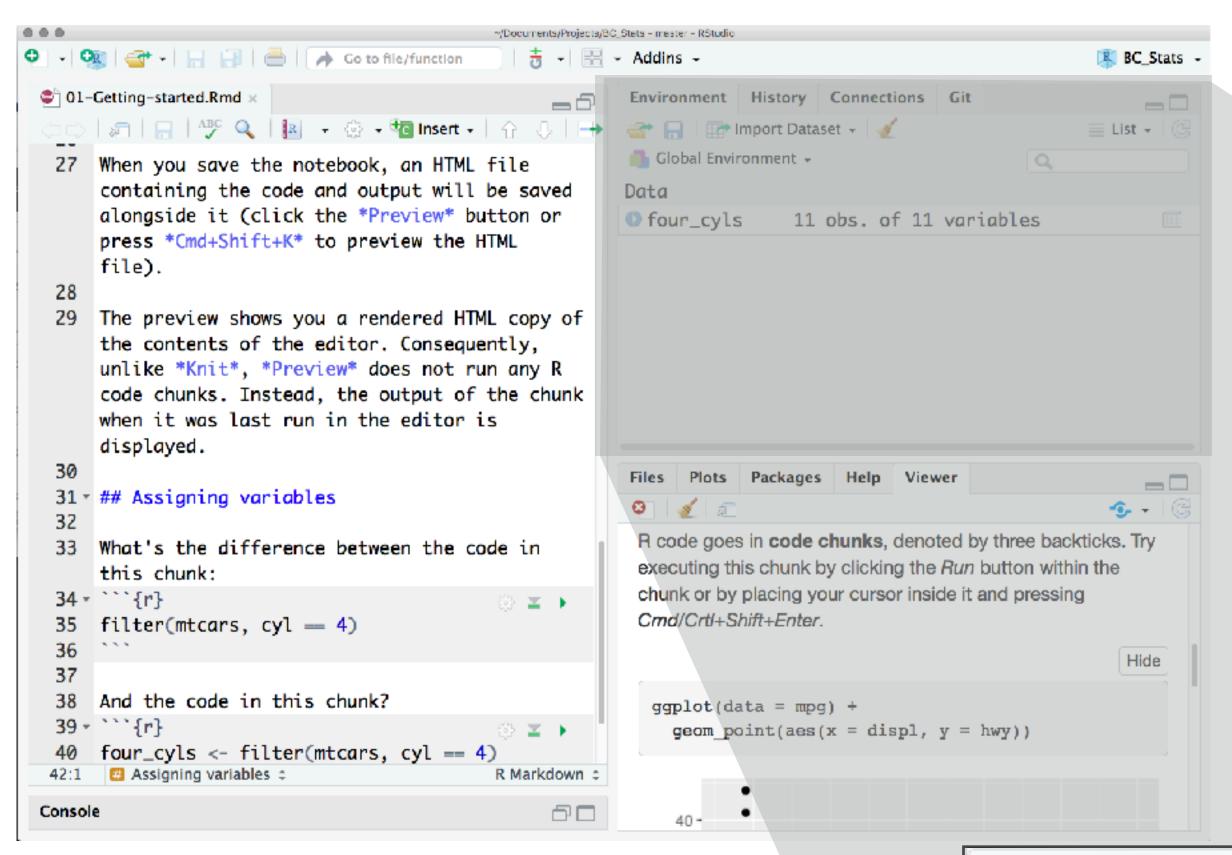
Assignment

four_cyls <- filter(mtcars, cyl == 4)</pre>

Assign the output from the right hand side, to a variable with the name on the left hand side



The assignment operator, 'less than symbol' 'dash'



Environment

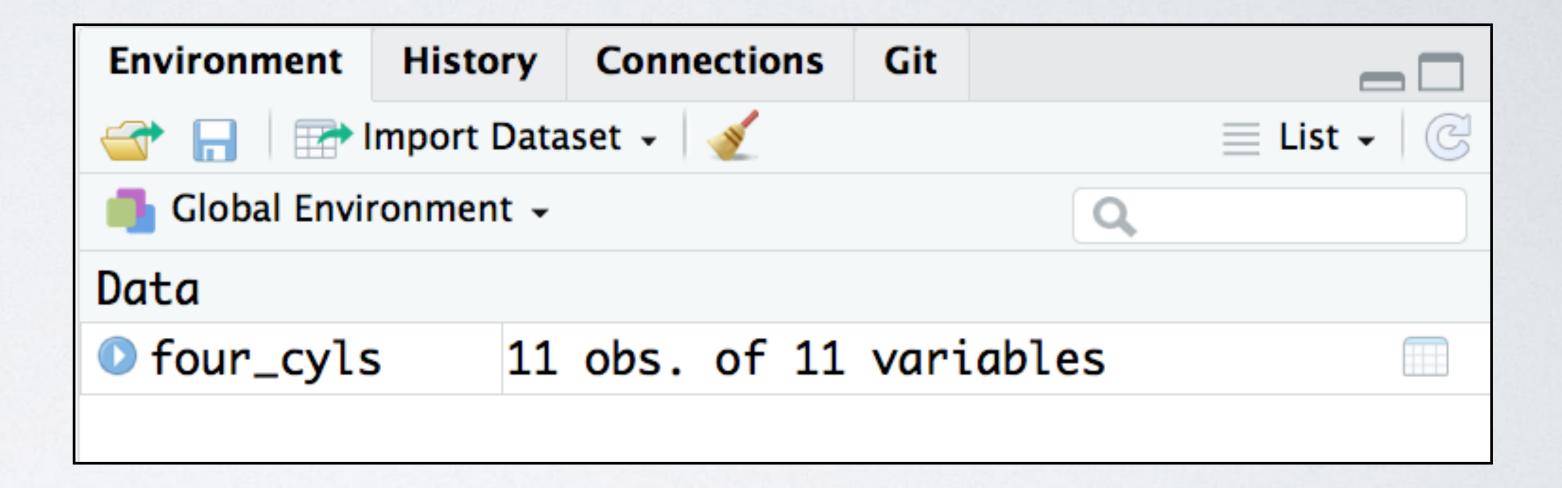
All the variables you have stored

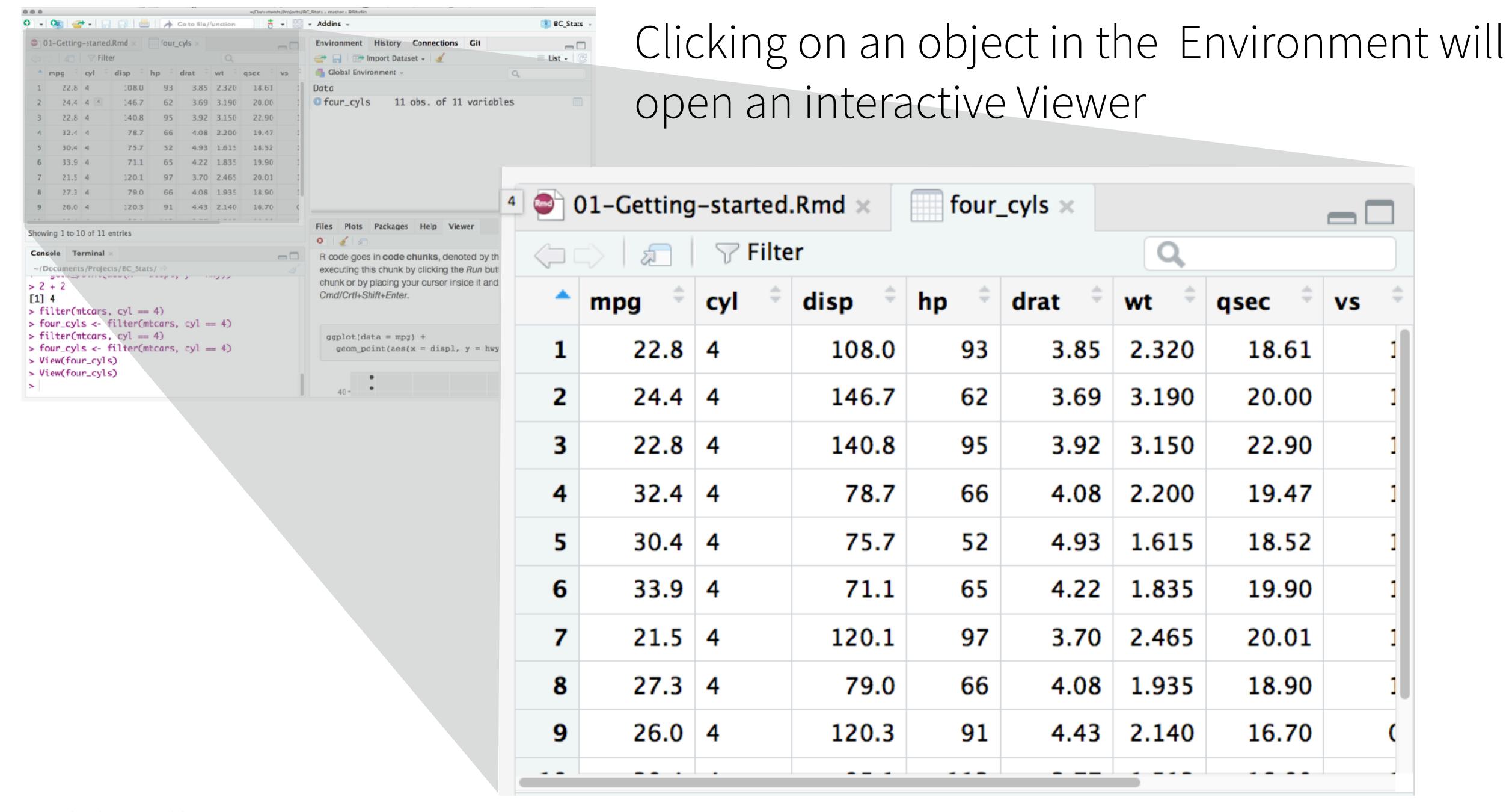


Find four_cyls in the environment pane.

Click on the name four_cyls.

What happens? What is this object?





Basic Syntax

four_cyls <- filter(mtcars, cyl == 4)

A function</pre>

Functions do things in R

Functions take arguments, and output results

If you want to keep the output, you assign it to a variable

Basic Syntax

four_cyls <- filter(mtcars, cyl == 4)

To call a function, you need to know it's name,

and the arguments it is expecting.

Arguments are comma separated and go inside the parenthesis following the function name.

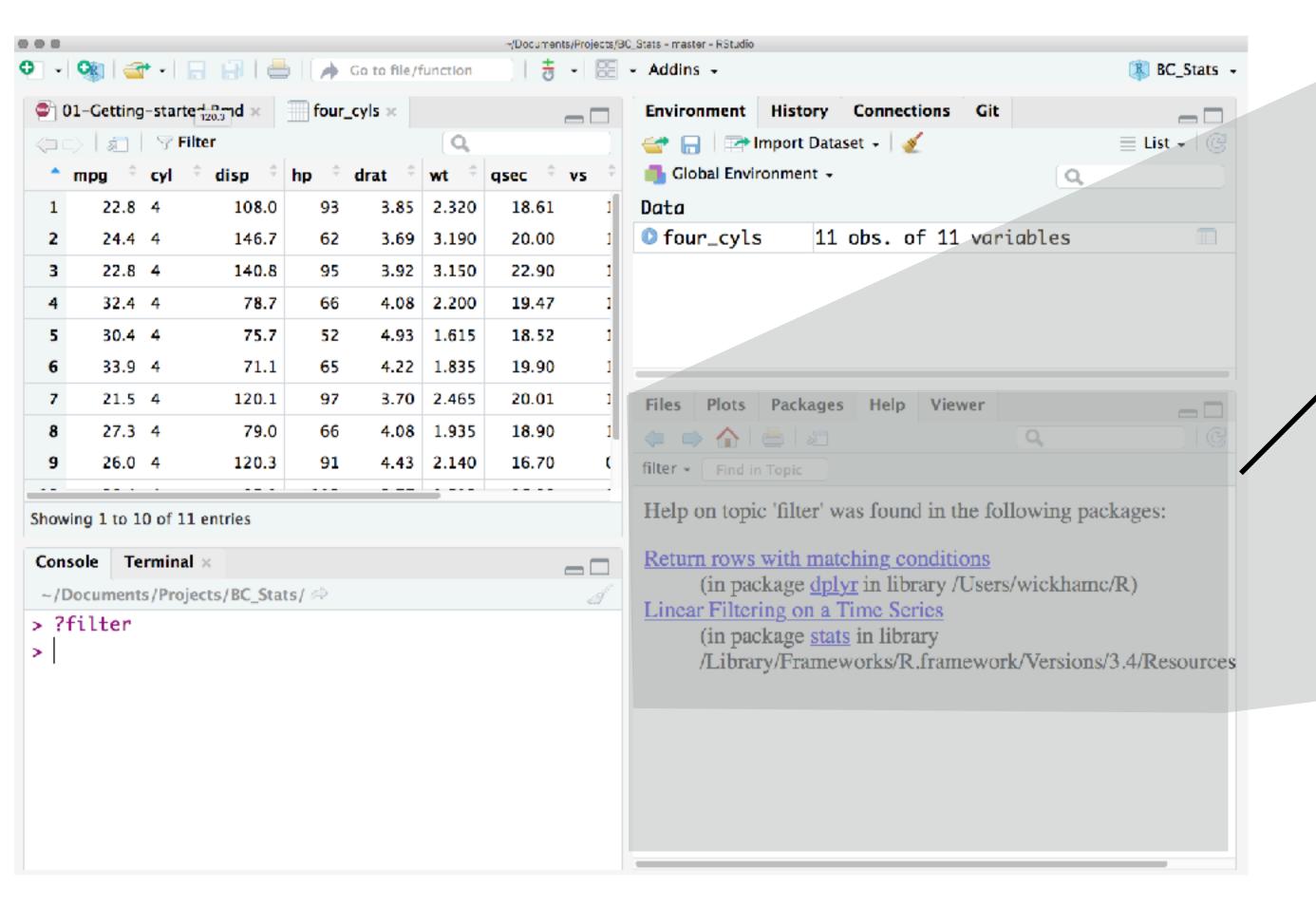
?

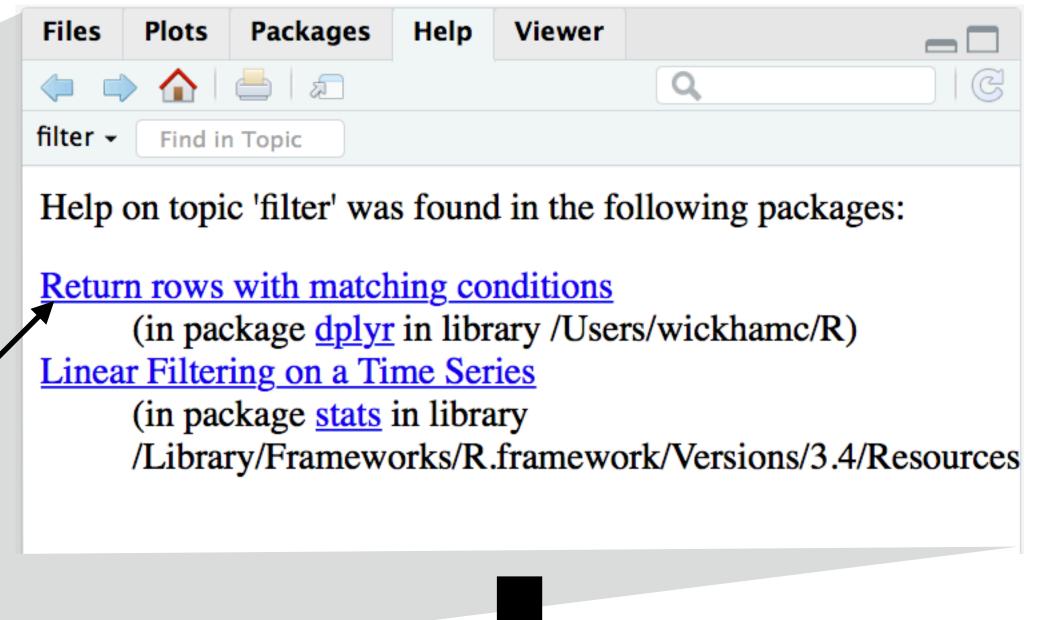
for help on functions

To get help on a function in R, on the **Console**, type

?function_name

Try
?filter





filter {dplyr}

R Documentation

Return rows with matching conditions

Description

Use filter() find rows/cases where conditions are true. Unlike base subsetting, rows where the condition evaluates to NA are dropped.

Usage

filter(.data, ...)

Arguments

filter {dplyr}

R Documentation

Return rows with matching conditions

Description

Use filter() find rows/cases where conditions are true. Unlike base subsetting, rows where the condition evaluates to NA are dropped.

Usage

filter(.data, ...)

Arguments

Arguments

A named argument .data

... Some other unnamed arguments

filter {dplyr} R Documentation

Return rows with matching conditions

Description

Use filter() find rows/cases where conditions are true. Unlike base subsetting, rows where the condition evaluates to NA are dropped.

Usage

```
filter(.data, ...)
```

Arguments

- •data A tbl. All main verbs are S3 generics and provide methods for <u>tbl_df()</u>, <u>dtplyr::tbl_dt()</u> and <u>dbplyr::tbl_dbi()</u>.

These arguments are automatically <u>quoted</u> and <u>evaluated</u> in the context of the data frame. They support <u>unquoting</u> and splicing. See vignette("programming") for an introduction to these concepts.

Details

Note that dplyr is not yet smart enough to optimise filtering optimisation on grouped datasets that don't need grouped calculations. For this reason, filtering is often considerably faster on ungroup() ed data.

Naming arguments is optional,

unnamed arguments are used in the order they are given

the first argument should take the value mtcars

the .data argument should take the value mtcars

Take a look at the next chunk.

- 1. What functions are being called?
- 2. What arguments do they take?
- 3. What values are being passed as which arguments?

```
46
47 * ```{r}
48 heights <- pull(.data = starwars, var = height)
49 mean(heights, na.rm = TRUE)
50
51
```

heights <- pull(.data = starwars, var = height)

pull() is being called with the .data argument being starwars, and the var argument being height

mean(heights, na.rm = TRUE)

mean() is being called with the x argument being heights, and the na.rm argument being TRUE

Common Syntax problem #1

Missing closing parenthesis or quotes

mean(heights

"Oops I'm stuck in a string

Common Syntax problem #2

Surrounding something in quotes, when R expected something else (or vice versa), e.g.

```
> mean("heights")
[1] NA
Warning message:
In mean.default("heights") :
   argument is not numeric or logical: returning NA
```

There are three chunks under "Syntax gone wrong".

Run each, read the error message, and try to fix the syntax.

sd(pull(.data = starwars, var = weight))

my_name <- "Charlotte"</pre>

Getting Started with R and RStudio

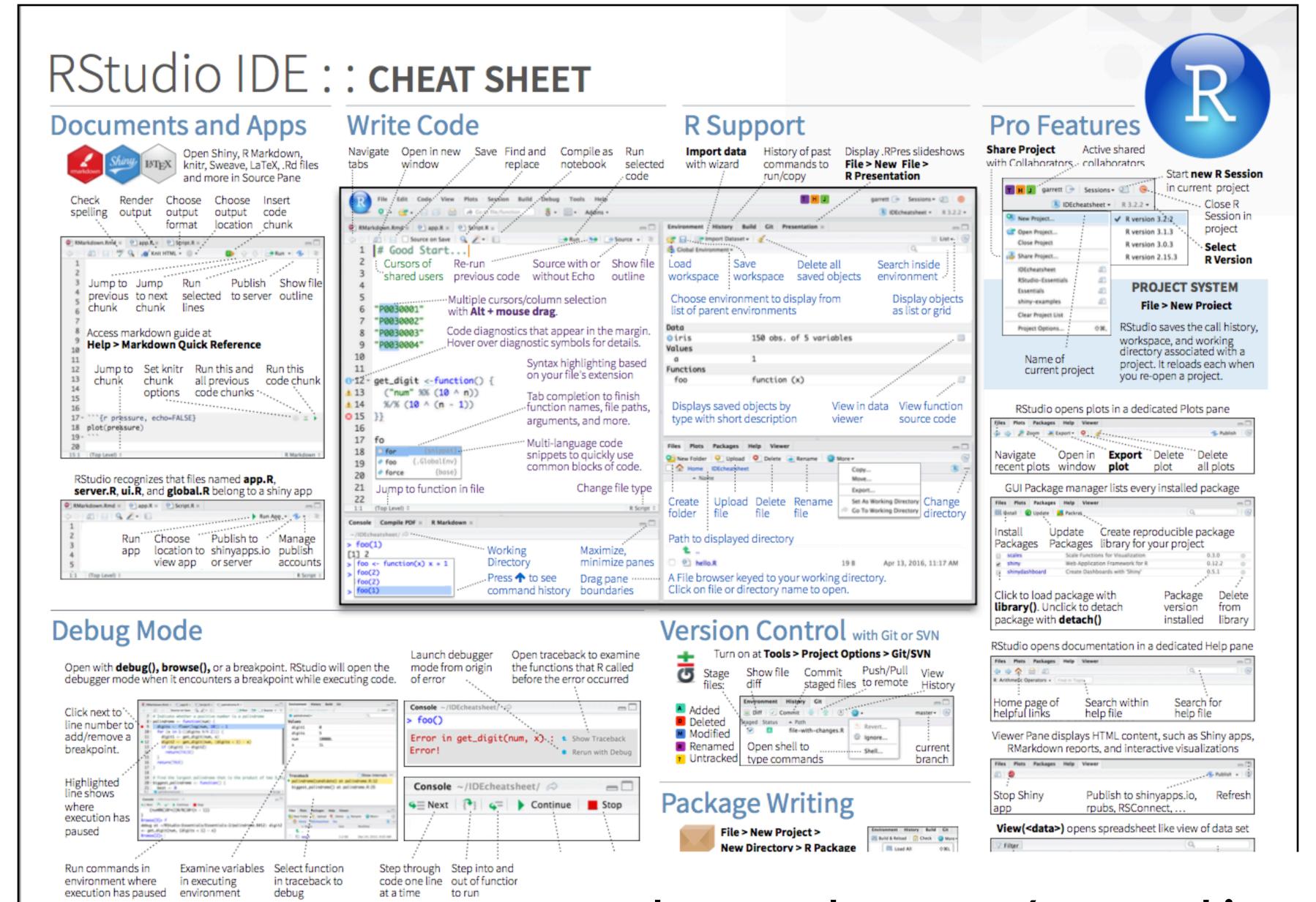
Summary

Use RMarkdown to keep together code, output and text.

If you need to use output, assign it to a variable <-

Get help on a function with ?

Watch your (, "



RStudio® is a

In cheatsheets/rstudio-ide.pdf

Studio

| 1 LAYOUT | | Windows/Linu | х Мас | 4 WRITE CODE | Windows /Linux | Mac | WHY RSTUDIO SERVER PRO? | | |
|--|---|--|--|--|---|--|--|---|---|
| Move focus to Source Editor Ctrl+1 | | | Ctrl+1 | Attempt completion | Tab or Ctrl+Space | Tab or Cmd+Space | RSP extends the the open source | server with a | |
| Move focus to Source | | Ctrl+2 | Ctrl+2 | Navigate candidates | ↑ / ↓ | ↑ / ↓ | commercial license, support, and | | |
| Move focus to Help | • | Ctrl+3 | Ctrl+3 | Accept candidate | Enter, Tab, or 🔷 | Enter, Tab, or 🔷 | open and run multiple R session | | H |
| Show History | | Ctrl+4 | Ctrl+4 | Dismiss candidates | Esc | Esc | · | tune your resources to improve performance | |
| Show Files | | Ctrl+5 | Ctrl+5 | Undo | Ctrl+Z | Cmd+Z | - | | |
| Show Plots | | Ctrl+6 | Ctrl+6 | Redo | Ctrl+Shift+Z | Cmd+Shift+Z | edit the same project at the same time as others see what you and others are doing on your server. | | |
| Show Packages | | Ctrl+7 | Ctrl+7 | Cut | Ctrl+X | Cmd+X | see what you and others are doing on your server switch easily from one version of R to a different version | | |
| Show Environment | | Ctrl+8 | Ctrl+8 | Сору | Ctrl+C | Cmd+C | • | | |
| Show Git/SVN | | Ctrl+9 | Ctrl+9 | Paste | Ctrl+V | Cmd+V | integrate with your authenticatio | n, authorization, a | and audit practices |
| Show Build | | Ctrl+0 | Ctrl+0 | Select All | Ctrl+A | Cmd+A | Download a free 45 day evaluation | | |
| 2 RUN CODE Window | | Windows/Linux | x Mac | Delete Line | Ctrl+D | Cmd+D
Shift+[Arrow] | www.rstudio.com/products/rstudio-server-pro/ | | |
| Search command history Ctrl+↑ | | • | Cmd+ ↑ | Select
Select Word | Shift+[Arrow] | Shift+[Arrow] | 5 DEBUG CODE | Windows/Li | nuv Mac |
| Navigate command history ↑/↓ | | | ↑/ ₩ | Select Word
Select to Line Start | Ctrl+Shift+ ←/→
Alt+Shift+ ← | Option+Shift+ ←/→
Cmd+Shift+ ← | Toggle Breakpoint | Shift+F9 | Shift+F9 |
| Move cursor to start of | | Home | Cmd+ ← | Select to Line End | Alt+Shift+→ | Cmd+Shift+→ | Execute Next Line | F10 | F10 |
| Move cursor to end of | | End | Cmd+→ | Select to Eme End Select Page Up/Down | Shift+PageUp/Down | Shift+PageUp/Down | Step Into Function | Shift+F4 | Shift+F4 |
| Change working direct | | Ctrl+Shift+H | Ctrl+Shift+H | Select to Start/End | Shift+Alt+ ↑/ ↓ | Cmd+Shift+ ↑/ ↓ | • | Shift+F6 | Shift+F6 |
| Interrupt current command Esc | | | Esc | Delete Word Left | Ctrl+Backspace | Ctrl+Opt+Backspace | Finish Function/Loop
Continue | Shift+F5 | Shift+F5 |
| Clear console Ctrl+L | | Ctrl+L | Ctrl+L | Delete Word Right | orr backspace | Option+Delete | | Shift+F8 | Shift+F8 |
| Quit Session (desktop | only) | Ctrl+Q | Cmd+Q | Delete to Line End | | Ctrl+K | Stop Debugging | Shirt+F8 | SIIIL+F8 |
| Restart R Session | | Ctrl+Shift+F10 | Cmd+Shift+F10 | Delete to Line Start | | Option+Backspace | 6 VERSION CONTROL | Windows/Li | nux Mac |
| Run current line/sele | ction | Ctrl+Enter | Cmd+Enter | Indent | Tab (at start of line) | Tab (at start of line) | Show diff | Ctrl+Alt+D | Ctrl+Option+D |
| Run current (retain cur | | Alt+Enter | Option+Enter | Outdent | Shift+Tab | Shift+Tab | Commit changes | Ctrl+Alt+M | Ctrl+Option+M |
| Run from current to er | | Ctrl+Alt+E | Cmd+Option+E | Yank line up to cursor | Ctrl+U | Ctrl+U | Scroll diff view | Ctrl+ ↑/ ↓ | Ctrl+ ↑/ ◆ |
| Run the current function | on | Ctrl+Alt+F | Cmd+Option+F | Yank line after cursor | Ctrl+K | Ctrl+K | Stage/Unstage (Git) | Spacebar | Spacebar |
| Source a file | | Ctrl+Alt+G | Cmd+Option+G | Insert yanked text | Ctrl+Y | Ctrl+Y | Stage/Unstage and move to next | | Enter |
| Source the current fil | le | Ctrl+Shift+S | Cmd+Shift+S | Insert <- | Alt+- | Ontion | orage, oriotage and move to next | Literi | Erreer |
| SOURCE WITH ACRO | | Challe Chaffer Factors | Consideration Contracts | | | Option+- | | | |
| Source with echo | | Ctrl+Shift+Enter | Cmd+Shift+Enter | Insert %>% | Ctrl+Shift+M | Cmd+Shift+M | 7 MAKE PACKAGES | Windows/Lir | nux Mac |
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Alt+L | ws/Linux M | Mac
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Ctrl+Alt+Shift+N | Cmd+Shift+M
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Cmd+Shift+Opt+N | Build and Reload Load All (devtools) Test Package (Desktop) | Ctrl+Shift+B
Ctrl+Shift+L
Ctrl+Shift+T | Cmd+Shift+B
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| 3 NAVIGATE CODE
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Cmd+Shift+Option+L | Insert %>% Show help for function Show source code New document New document (Chrome) Open document | Ctrl+Shift+M
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Cmd+S | Build and Reload Load All (devtools) Test Package (Desktop) Test Package (Web) Check Package | Ctrl+Shift+B Ctrl+Shift+L Ctrl+Shift+T Ctrl+Alt+F7 Ctrl+Shift+E | Cmd+Shift+B
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Cmd+Shift+Option+O | Insert %>% Show help for function Show source code New document New document (Chrome) Open document Save document Close document | Ctrl+Shift+M F1 F2 Ctrl+Shift+N Ctrl+Alt+Shift+N Ctrl+O Ctrl+S Ctrl+W | Cmd+Shift+M
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Cmd+Shift+Opt+N
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Cmd+W | Build and Reload
Load All (devtools)
Test Package (Desktop)
Test Package (Web) | Ctrl+Shift+B
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Cmd+Option+O | Insert %>% Show help for function Show source code New document New document (Chrome) Open document Save document Close document Close document (Chrome) | Ctrl+Shift+M F1 F2 Ctrl+Shift+N Ctrl+Alt+Shift+N Ctrl+O Ctrl+O Ctrl+S Ctrl+W Ctrl+Alt+W | Cmd+Shift+M F1 F2 Cmd+Shift+N Cmd+Shift+Opt+N Cmd+O Cmd+S Cmd+W Cmd+Option+W | Build and Reload Load All (devtools) Test Package (Desktop) Test Package (Web) Check Package Document Package | Ctrl+Shift+B Ctrl+Shift+L Ctrl+Shift+T Ctrl+Alt+F7 Ctrl+Shift+E Ctrl+Shift+D | Cmd+Shift+B Cmd+Shift+L Cmd+Shift+T Cmd+Opt+F7 Cmd+Shift+E Cmd+Shift+D |
| 3 NAVIGATE CODE
Goto File/Function
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Cmd+Option+O
Cmd+Shift+Option+O
Cmd+Shift+Option+G | Insert %>% Show help for function Show source code New document New document (Chrome) Open document Save document Close document Close document Close all documents | Ctrl+Shift+M F1 F2 Ctrl+Shift+N Ctrl+Alt+Shift+N Ctrl+O Ctrl+S Ctrl+W Ctrl+Alt+W Ctrl+Shift+W | Cmd+Shift+M F1 F2 Cmd+Shift+N Cmd+Shift+Opt+N Cmd+O Cmd+S Cmd+W Cmd+Option+W Cmd+Shift+W | Build and Reload Load All (devtools) Test Package (Desktop) Test Package (Web) Check Package Document Package B DOCUMENTS AND APPS | Ctrl+Shift+B Ctrl+Shift+L Ctrl+Shift+T Ctrl+Alt+F7 Ctrl+Shift+E Ctrl+Shift+D Windows/Line | Cmd+Shift+B Cmd+Shift+L Cmd+Shift+T Cmd+Opt+F7 Cmd+Shift+E Cmd+Shift+D |
| 3 NAVIGATE CODE
Goto File/Function
Fold Selected
Unfold Selected
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Unfold All
Go to line
Jump to | Ctrl+. Alt+L Shift+Al Alt+O Shift+Al Shift+Al Shift+Al | t+L C
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| 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 | Ctrl+. Alt+L Shift+Al Alt+O Shift+Al Shift+Al Shift+Al Ctrl+Shi Ctrl+F12 Ctrl+Shi Ctrl+F9 Ctrl+F10 Ctrl+F3 Ctrl+Shi | t+L | Accorder. Comd+Option+L Comd+Shift+Option+L Comd+Shift+Option+O Comd+Shift+Option+G Comd+Shift+Option+G Comd+Shift+Option+J Comd+Shift+Coption+J Comd+Shift+Coption+J Comd+Shift+Coption+J Comd+Shift+Coption+J Comd+Shift+Coption+J Comd+F10 | Insert %>% Show help for function Show source code New document New document (Chrome) Open document Save document Close document Close document 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 | Ctrl+Shift+M F1 F2 Ctrl+Shift+N Ctrl+Alt+Shift+N Ctrl+O Ctrl+S Ctrl+W Ctrl+Alt+W Ctrl+Alt+W Ctrl+Alt+V Ctrl+Alt+V Ctrl+Alt+V Ctrl+Alt+V Ctrl+Shift+C Ctrl+Shift+C Ctrl+Shift+A Ctrl+Shift+A Ctrl+Shift+A | 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+X Cmd+Option+V Cmd+I Cmd+Shift+C Cmd+Shift+C Cmd+Shift+C Cmd+Shift+A Ctrl+Shift+E Cmd+Shift+Dpt+P Ctrl+T Option+♠/◆ | 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 | Ctrl+Shift+B Ctrl+Shift+L Ctrl+Shift+T Ctrl+Alt+F7 Ctrl+Shift+E Ctrl+Shift+D Windows/Line Ctrl+Shift+K Ctrl+Shift+K Ctrl+Shift+K Ctrl+Shift+K Ctrl+Shift+K Ctrl+Shift+R Ctrl+Shift+R Ctrl+Shift+R Ctrl+Shift+P Ctrl+Alt+B Ctrl+Alt+B Ctrl+Alt+P | Cmd+Shift+B Cmd+Shift+L Cmd+Shift+T Cmd+Opt+F7 Cmd+Shift+E Cmd+Shift+D WX Mac Cmd+Shift+K Cmd+Shift+K Cmd+Shift+K Cmd+Shift+K Cmd+Shift+R Cmd+Shift+R Cmd+Shift+R Cmd+Shift+P Cmd+Option+B Cmd+Option+B Cmd+Option+P |
| 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 | Ctrl+. Alt+L Shift+Al: Alt+O Shift+Al: Shift+Al: Shift+Al: Ctrl+Shi Ctrl+F12 Ctrl+Shi Ctrl+Shi Ctrl+F9 Ctrl+F10 Ctrl+F3 Ctrl+Shi | t+L | Accorder. Comd+Option+L Comd+Shift+Option+L Comd+Shift+Option+O Comd+Shift+Option+G Comd+Shift+Option+J Comd+Shift+Coption+J Comd+Shift+Coption+J Comd+Shift+Coption+J Comd+Shift+Coption+J Comd+Shift+Coption+J Comd+Shift+F11 Comd+F10 Comd+F10 Comd+Shift+Coption+E Comd+Shift+Coption+E Comd+Shift+F | 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 Reformat Selection Select within braces Show Diagnostics Transpose Letters Move Lines Up/Down Copy Lines Up/Down | Ctrl+Shift+M F1 F2 Ctrl+Shift+N Ctrl+Alt+Shift+N Ctrl+O Ctrl+S Ctrl+W Ctrl+Alt+W Ctrl+Alt+W Ctrl+Alt+V Ctrl+Alt+V Ctrl+Alt+V Ctrl+Shift+C Ctrl+Shift+C Ctrl+Shift+A Ctrl+Shift+A Ctrl+Shift+B Ctrl+Shift+A Ctrl+Shift+B Ctrl+Shift+B Ctrl+Shift+B Ctrl+Shift+A Ctrl+Shift+D Ctrl+Alt+Down | Cmd+Shift+M F1 F2 Cmd+Shift+N Cmd+Shift+Opt+N Cmd+O Cmd+S Cmd+W Cmd+Option+W Cmd+Option+X Cmd+Option+X Cmd+Option+V Cmd+Shift+C Cmd+Shift+C Cmd+Shift+C Cmd+Shift+A Ctrl+Shift+E Cmd+Shift+D Ctrl+T Option+↑/◆ Cmd+Option+∪p Ctrl+Option+Down | 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 | Ctrl+Shift+B Ctrl+Shift+L Ctrl+Shift+T Ctrl+Alt+F7 Ctrl+Shift+E Ctrl+Shift+D Windows/Line Ctrl+Shift+K Ctrl+Shift+K Ctrl+Shift+K Ctrl+Shift+K Ctrl+Shift+K Ctrl+Shift+R Ctrl+Alt+I Ctrl+Shift+R Ctrl+Alt+B Ctrl+Alt+B Ctrl+Alt+B Ctrl+Alt+P Ctrl+Alt+C | Cmd+Shift+B Cmd+Shift+L Cmd+Shift+T Cmd+Opt+F7 Cmd+Shift+E Cmd+Shift+D WX Mac Cmd+Shift+K Cmd+Shift+K Cmd+Shift+K Cmd+Shift+K Cmd+Shift+R Cmd+Shift+R Cmd+Shift+R Cmd+Shift+P Cmd+Option+R Cmd+Option+B Cmd+Option+T Cmd+Option+C |
| 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 | Ctrl+. Alt+L Shift+Al Alt+O Shift+Al Shift+Al Shift+Al Ctrl+Shi Ctrl+F12 Ctrl+Shi Ctrl+F9 Ctrl+F10 Ctrl+F3 Ctrl+Shi | t+L | Accorder. Cmd+Option+L Cmd+Shift+Option+L 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+Shift+Option+E Cmd+Shift+F Cmd+G Cmd+Shift+F Cmd+G | Insert %>% Show help for function Show source code New document New document (Chrome) Open document Save document Close document Close document 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 | Ctrl+Shift+M F1 F2 Ctrl+Shift+N Ctrl+Alt+Shift+N Ctrl+O Ctrl+S Ctrl+W Ctrl+Alt+W Ctrl+Alt+W Ctrl+Alt+V Ctrl+Alt+V Ctrl+Alt+V Ctrl+Shift+C Ctrl+Shift+C Ctrl+Shift+A Ctrl+Shift+A Ctrl+Shift+B Ctrl+Shift+A Ctrl+Shift+B Ctrl+Shift+Alt+P Alt+♠/♣ Shift+Alt+♠/♣ Ctrl+Alt+Up Ctrl+Alt+Down Ctrl+Alt+Shift+Up | Cmd+Shift+M F1 F2 Cmd+Shift+N Cmd+Shift+Opt+N Cmd+O Cmd+S Cmd+W Cmd+Option+W Cmd+Option+X Cmd+Option+X Cmd+Option+V Cmd+Shift+C Cmd+Shift+C Cmd+Shift+C Cmd+Shift+A Ctrl+Shift+E Cmd+Shift+A Ctrl+Shift+E Cmd+Shift+Opt+P Ctrl+T Option+♠/♣ Cmd+Option+♠/♣ Ctrl+Option+Down Ctrl+Option+Shift+Up | 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 | Ctrl+Shift+B Ctrl+Shift+L Ctrl+Shift+T Ctrl+Alt+F7 Ctrl+Shift+E Ctrl+Shift+D Windows/Linu Ctrl+Shift+K Ctrl+Shift+K Ctrl+Shift+K Ctrl+Shift+K Ctrl+Shift+R Ctrl+Shift+R Ctrl+Shift+P Ctrl+Alt+P Ctrl+Alt+B Ctrl+Alt+D Ctrl+Alt+P Ctrl+Alt+P Ctrl+Alt+C Ctrl+Alt+N | Cmd+Shift+B Cmd+Shift+L Cmd+Shift+T Cmd+Opt+F7 Cmd+Shift+E Cmd+Shift+B Cmd+Shift+K Cmd+Shift+K Cmd+Shift+K Cmd+Shift+K Cmd+Shift+R Cmd+Shift+R Cmd+Shift+P Cmd+Option+R Cmd+Option+B Cmd+Option+T Cmd+Option+P Cmd+Option+C Cmd+Option+N |
| 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 | Ctrl+. Alt+L Shift+Al: Alt+O Shift+Al: Shift+Al: Shift+Al: Shift+Al: Ctrl+Shi Ctrl+Shi Ctrl+Shi Ctrl+F1: Ctrl+F3 Ctrl+F3 Ctrl+Shi Ctrl+Shi Ctrl+Shi Ctrl+F3 Ctrl+Shi Ctrl+F3 Ctrl+Shi Ctrl+F3 Ctrl+Shi Ctrl+F4 Ctrl+Shi Win: F3, W: Shift: Ctrl+ ◆/ | t+L | Accord+. Cmd+Option+L Cmd+Shift+Option+C 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+Shift+G Cmd+Shift+G Option+ | Insert %>% Show help for function Show source code New document New document (Chrome) Open document Save document Close document Close document 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 | Ctrl+Shift+M F1 F2 Ctrl+Shift+N Ctrl+Alt+Shift+N Ctrl+O Ctrl+S Ctrl+W Ctrl+Alt+W Ctrl+Alt+W Ctrl+Alt+V Ctrl+Alt+V Ctrl+Alt+V Ctrl+Alt+V Ctrl+Shift+C Ctrl+Shift+C Ctrl+Shift+A Ctrl+Shift+A Ctrl+Shift+E Ctrl+Shift+A Ctrl+Shift+A Ctrl+Shift+D Alt+♠/♣ Shift+Alt+♠/♣ Ctrl+Alt+Down Ctrl+Alt+Down Ctrl+Alt+Shift+Up Ctrl+Alt+Shift+Down | 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+C Cmd+Shift+C Cmd+Shift+A Ctrl+Shift+E Cmd+Shift+P Ctrl+T Option+↑/◆ Ctrl+Option+Down Ctrl+Option+Down Ctrl+Option+Shift+Up Ctrl+Opt+Shift+Down | 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 | Ctrl+Shift+B Ctrl+Shift+L Ctrl+Shift+T Ctrl+Alt+F7 Ctrl+Shift+E Ctrl+Shift+D Windows/Line Ctrl+Shift+K Ctrl+Shift+K Ctrl+Shift+K Ctrl+Shift+K Ctrl+Shift+R Ctrl+Shift+R Ctrl+Shift+R Ctrl+Shift+P Ctrl+Alt+P Ctrl+Alt+B Ctrl+Alt+P Ctrl+Alt+P Ctrl+Alt+C Ctrl+Alt+N Ctrl+F8 | Cmd+Shift+B Cmd+Shift+L Cmd+Shift+T Cmd+Opt+F7 Cmd+Shift+E Cmd+Shift+D WX Mac Cmd+Shift+K Cmd+Shift+K Cmd+Shift+K Cmd+Shift+K Cmd+Shift+R Cmd+Shift+R Cmd+Shift+P Cmd+Shift+P Cmd+Option+B Cmd+Option+B Cmd+Option+T Cmd+Option+C Cmd+Option+C Cmd+Option+N Cmd+F8 |
| 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 | Ctrl+. Alt+L Shift+Al: Alt+O Shift+Al: Shift+Al: Shift+Al: Ctrl+Shi Ctrl+F1: Ctrl+F1: Ctrl+F9 Ctrl+F1: Ctrl+F3 Ctrl+Shi Ctrl+F3 Ctrl+Shi Ctrl+Shi Ctrl+F3 Ctrl+Shi Ctrl+F3 Ctrl+Shi Ctrl+Shi Ctrl+Shi Ctrl+Shi Ctrl+Shi Ctrl+Shi Ctrl+Shi Ctrl+Shi Ctrl+Shi | t+L | Accomd+Option+L Cmd+Shift+Option+L Cmd+Shift+Option+O Cmd+Shift+Option+G Cmd+Shift+Option+G Cmd+Shift+Coption+J Ctrl+Shift+. Ctrl+F11 Ctrl+F12 Ctrl+Shift+F11 Ctrl+Shift+F12 Cmd+F9 Cmd+F10 Ctrl+P Ctrl+Shift+Option+E Cmd+Shift+F Cmd+G Cmd+Shift+F Cmd+G Cmd+Shift+G Option+ ◆/→ | Insert %>% Show help for function Show source code New document New document (Chrome) Open document Save document Close document Close document Close all documents Extract function Extract variable Reindent lines (Un)Comment lines 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 | Ctrl+Shift+M F1 F2 Ctrl+Shift+N Ctrl+Alt+Shift+N Ctrl+O Ctrl+S Ctrl+W Ctrl+Alt+W Ctrl+Alt+W Ctrl+Alt+V Ctrl+Alt+V Ctrl+Alt+V Ctrl+Shift+C Ctrl+Shift+C Ctrl+Shift+A Ctrl+Shift+A Ctrl+Shift+B Ctrl+Shift+A Ctrl+Shift+B Ctrl+Shift+Alt+P Alt+♠/♣ Shift+Alt+♠/♣ Ctrl+Alt+Up Ctrl+Alt+Down Ctrl+Alt+Shift+Up | Cmd+Shift+M F1 F2 Cmd+Shift+N Cmd+Shift+Opt+N Cmd+O Cmd+S Cmd+W Cmd+Option+W Cmd+Option+X Cmd+Option+X Cmd+Option+V Cmd+Shift+C Cmd+Shift+C Cmd+Shift+C Cmd+Shift+A Ctrl+Shift+E Cmd+Shift+A Ctrl+Shift+E Cmd+Shift+Opt+P Ctrl+T Option+♠/♣ Cmd+Option+♠/♣ Ctrl+Option+Down Ctrl+Option+Shift+Up | 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 | Ctrl+Shift+B Ctrl+Shift+L Ctrl+Shift+T Ctrl+Alt+F7 Ctrl+Shift+E Ctrl+Shift+D Windows/Linu Ctrl+Shift+K Ctrl+Shift+K Ctrl+Shift+K Ctrl+Shift+K Ctrl+Shift+R Ctrl+Shift+R Ctrl+Alt+I Ctrl+Shift+P Ctrl+Alt+B Ctrl+Alt+B Ctrl+Alt+D Ctrl+Alt+C Ctrl+Alt+C Ctrl+Alt+N Ctrl+Shift+R Ctrl+Alt+N Ctrl+Alt+N Ctrl+Alt+N | Cmd+Shift+B Cmd+Shift+L Cmd+Shift+T Cmd+Opt+F7 Cmd+Shift+E Cmd+Shift+B Cmd+Shift+K Cmd+Shift+K Cmd+Shift+K Cmd+Shift+K Cmd+Shift+R Cmd+Shift+R Cmd+Shift+P Cmd+Option+P Cmd+Option+P Cmd+Option+P Cmd+Option+C Cmd+Option+N |

Ctrl+Shift+J

Replace and Find



Cmd+Shift+J

Show Keyboard Shortcuts

Option+Shift+K

Alt+Shift+K

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