

# Introduction to R & RStudio



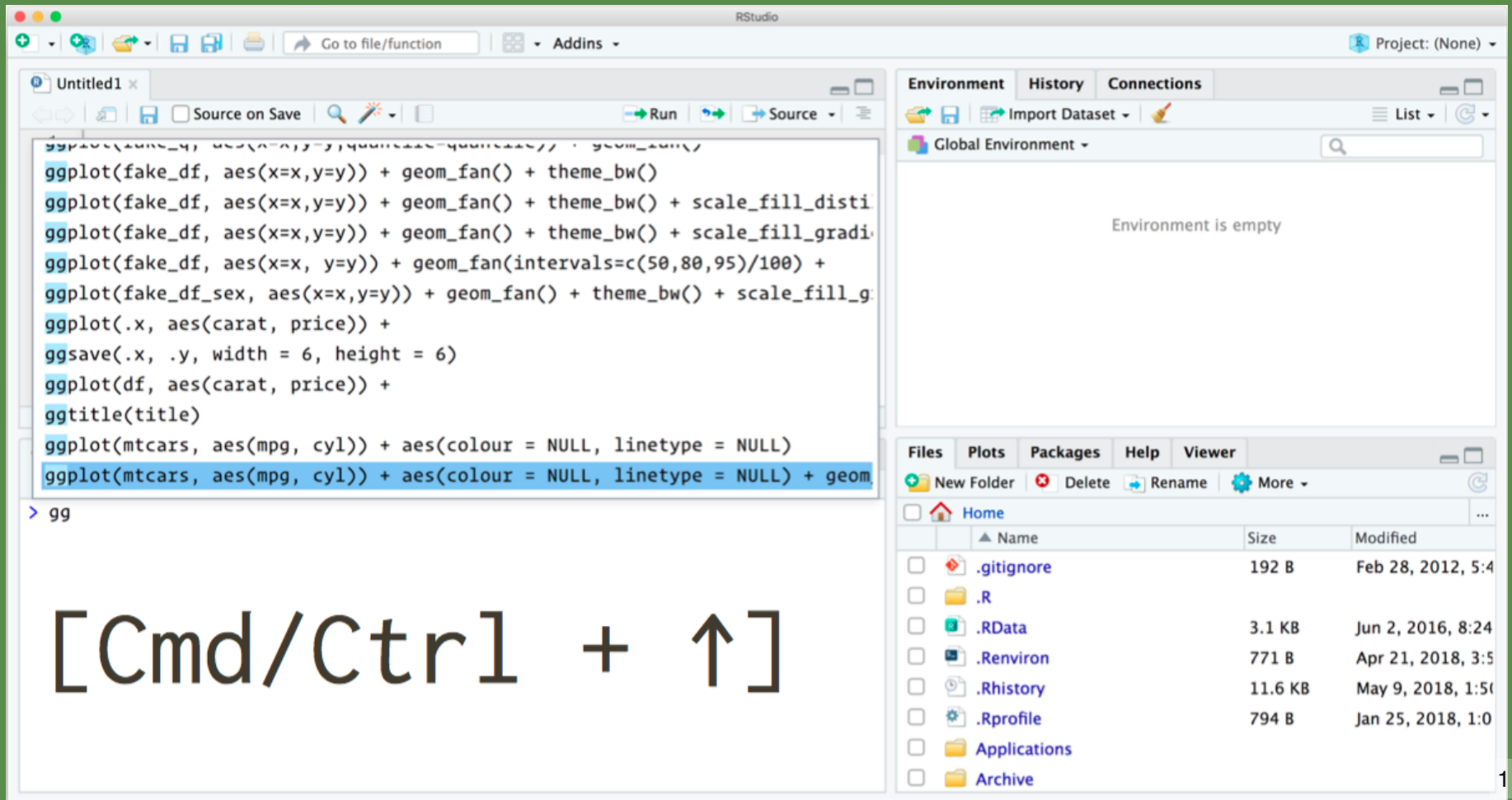


R works without Rstudio  
but we strongly  
recommend that you use  
**Rstudio** as an IDE



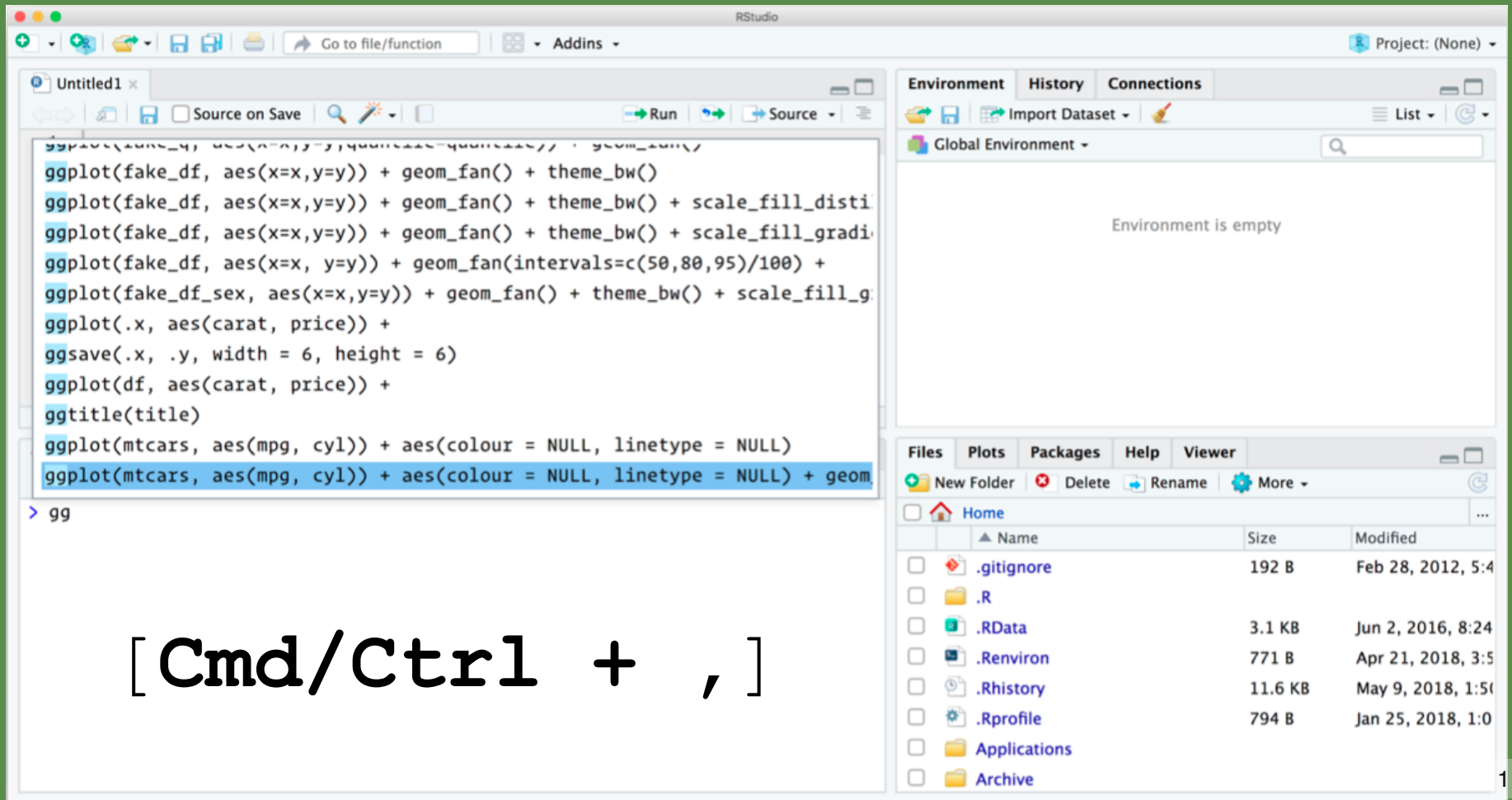
And if you decide to go  
with Rstudio, it pays off to  
be an expert at using it

# The RStudio IDE



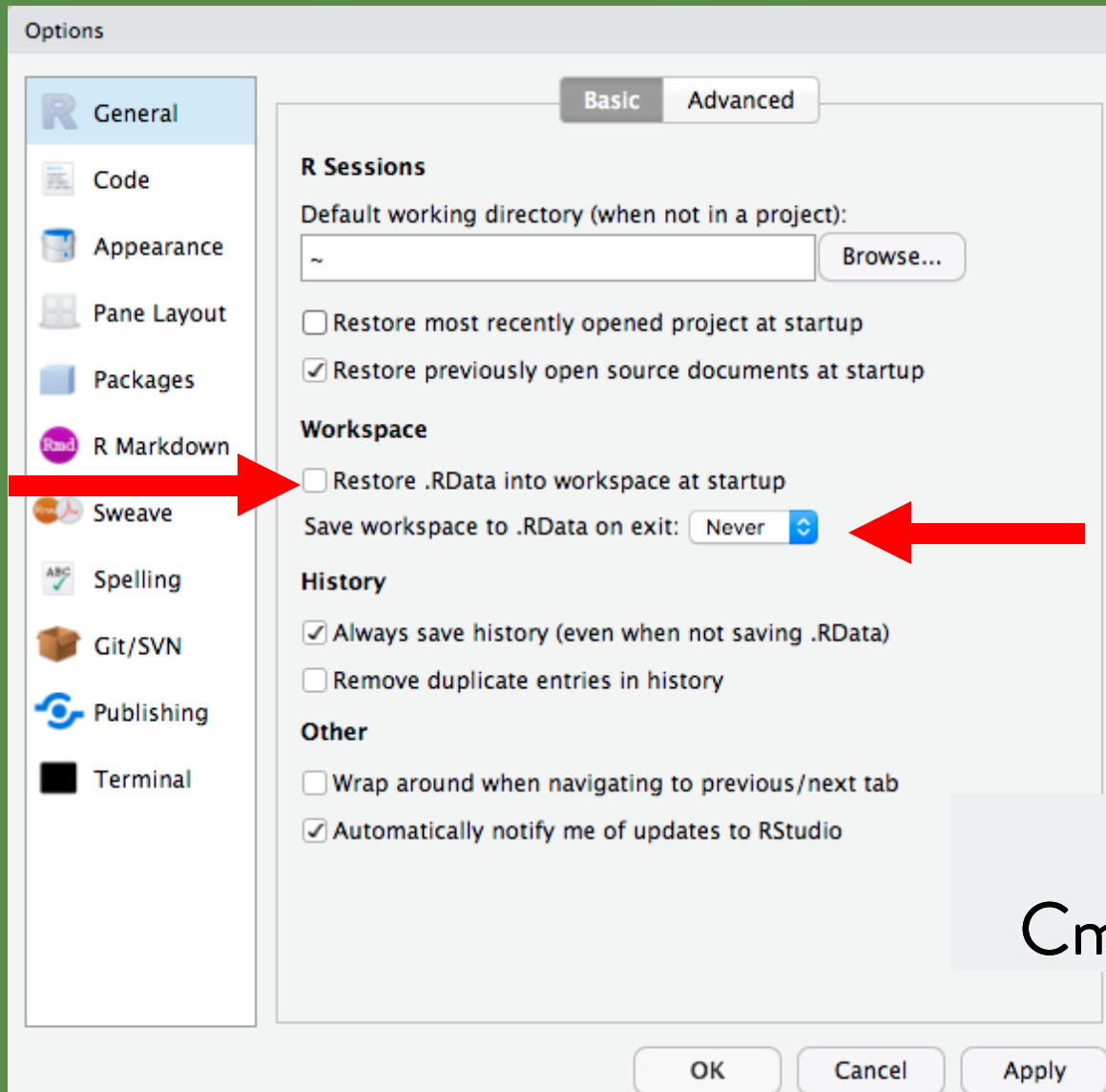
[Cmd/Ctrl + ↑]

# The RStudio IDE



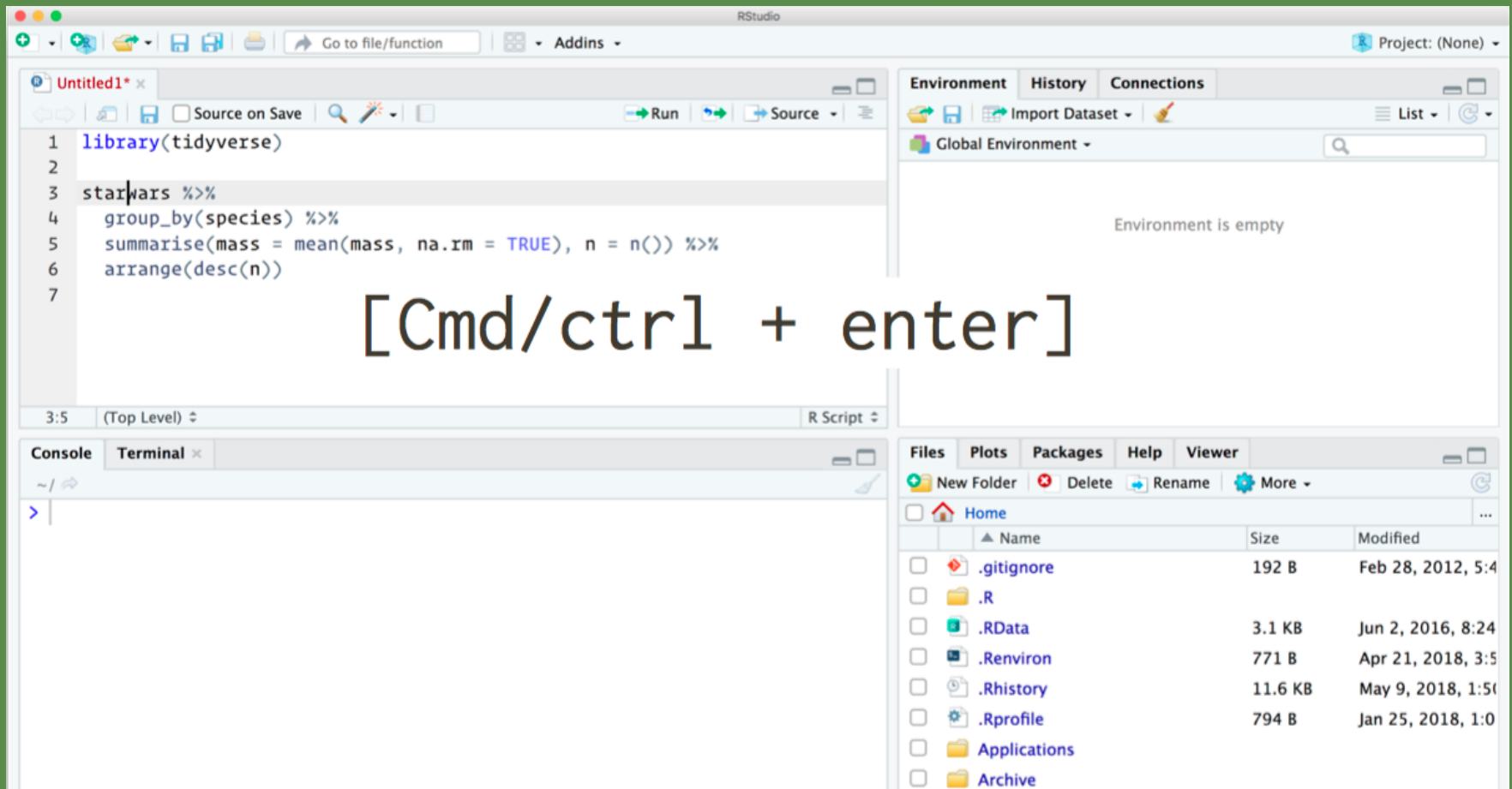
[ Cmd/Ctrl + , ]

# Never restore Rdata files



Restart R with  
Cmd/Ctrl + Shift + F10

# Executing code



# Multiple cursors

The screenshot shows the RStudio interface with two open files, 'Untitled1\*' and 'Untitled2\*'. The main editor window displays the text '[Alt + drag]' with multiple cursors positioned at the start of each line (lines 1 through 8). The console window shows the following R code and output:

```
> starwars %>%  
+ group_by(species) %>%  
+ summarise(mass = mean(mass, na.rm = TRUE), n = n()) %>%  
+ arrange(desc(n))  
# A tibble: 38 x 3  
  species    mass     n  
  <chr>    <dbl> <int>  
1 Human      82.8    35  
2 Droid      69.8     5  
3 NA         48     5  
4 Gungan      74     3
```

The right-hand pane shows the 'Environment' tab, which is currently empty. The bottom-right pane shows the 'Files' tab, displaying a list of files in the current directory:

Name	Size	Modified
.gitignore	192 B	Feb 28, 2012, 5:4
.R		
.RData	3.1 KB	Jun 2, 2016, 8:24
.Renvirom	771 B	Apr 21, 2018, 3:5
.Rhistory	11.6 KB	May 9, 2018, 1:50
.Rprofile	794 B	Jan 25, 2018, 1:0
Applications		
Archive		



# Keyboard Shortcuts

Help > Keyboard shortcuts help

**Keyboard Shortcut Quick Reference**

Category	Shortcut	Action
Tabs	1 "a"	Switch to Tab...
	2 "b"	Next Tab
	3 "c"	Previous Tab
	4 "d"	First Tab
	5 "e"	Last Tab
	6 "f"	First Tab
	7 "g"	Last Tab
	8 "h"	
Panes	1	Move Focus to Source
	2	Move Focus to Console
	3	Move Focus to Terminal
	4	Move Focus to Help
	5	Show History
	6	Show Files
	7	Show Plots
	8	Show Packages
	9	Show Environment
	0	Show Viewer
Source Navigation	%F9	Back
	%F10	Forward
	%U	Find Usages
	%E	Use Selection for Find
	%F	Find...
	%G	Find Next
	%G	Find Previous
	%J	Replace and Find
	.	Go To File/Function...
	%G	Go to Line...
Source Editor	%I	Insert Chunk
	%R	Insert Section...
	%X	Extract Function
	%V	Extract Variable
	%C	Comment/Uncomment Lines
	%I	Reindent Lines
	%/	Reflow Comment
	%A	Reformat Code
	%D	Show Diagnostics (Project)
	%L	Collapse Fold
Source Control	%D	Diff Files
	%M	Commit...
	%K	Compile PDF
	%K	Preview
	%K	Knit Document
	%B	Install and Restart
	%L	Load All
	%E	Check Package
	%T	Test Package
	%D	Document
Build	%K	Compile PDF
	%K	Preview
	%K	Knit Document
	%B	Install and Restart
	%L	Load All
	%E	Check Package
	%T	Test Package
	%D	Document
	%K	Compile PDF
	%K	Preview
Console	%L	Clear Console
	%H	Popup Command History
	%R	New Terminal
	%F11	Previous Terminal
	%F12	Next Terminal
	%K	Compile PDF
	%K	Preview
	%K	Knit Document
	%B	Install and Restart
	%L	Load All
Terminal	%R	New Terminal
	%F11	Previous Terminal
	%F12	Next Terminal
	%K	Compile PDF
	%K	Preview
	%K	Knit Document
	%B	Install and Restart
	%L	Load All
	%E	Check Package

# Your turn

What's the shortcut for `<-`  
(assignment)?

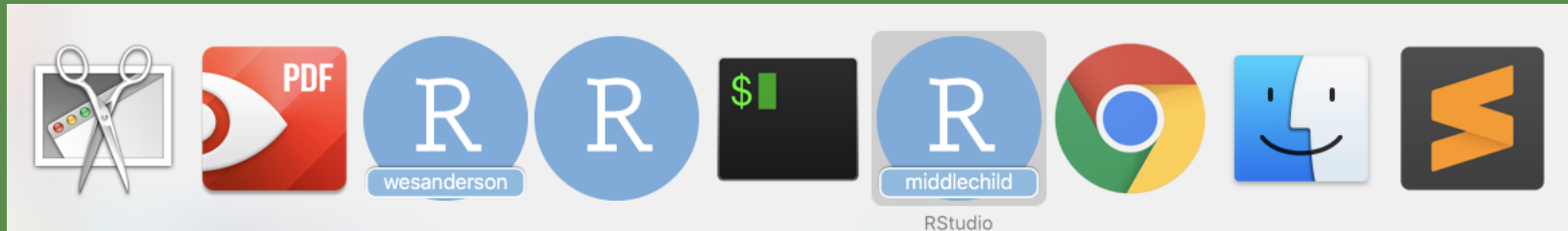
What about `%>%` (pipe)?

How can you quickly comment a  
block of lines?



# Use Rstudio projects

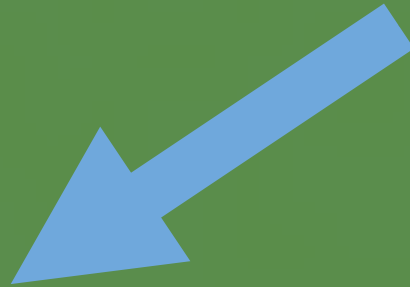
# Easily switch between projects



# Easily switch between projects

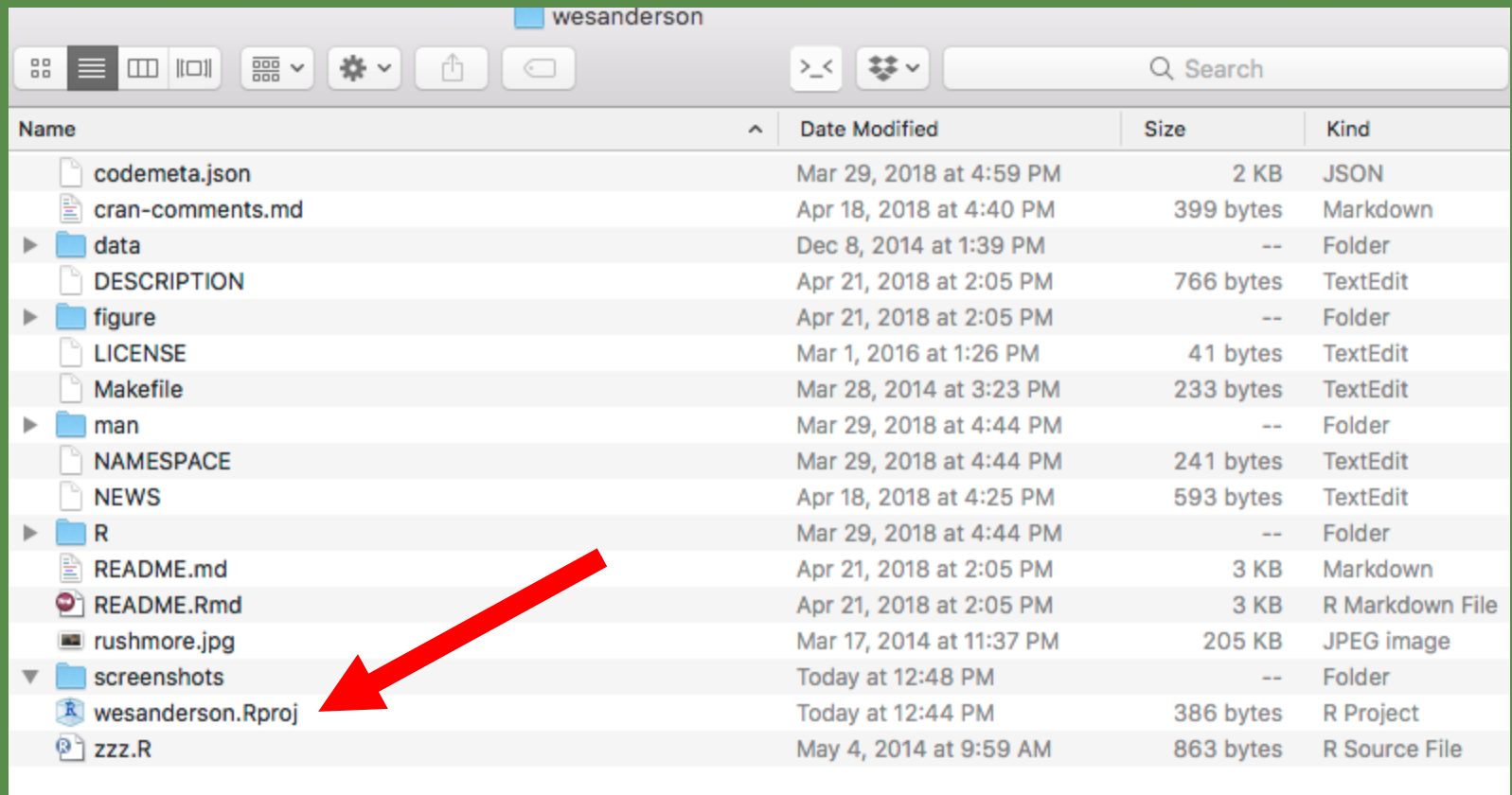


Just double click  
this file



`<project_name.rproj>`

# Easily switch between projects





# Never do these things



```
setwd( 'path/to/somewhere/on/my/computer/that/no/one/else/has' )  
  
# OR  
  
rm(list = ls())
```

Any questions about using  
Rstudio?