

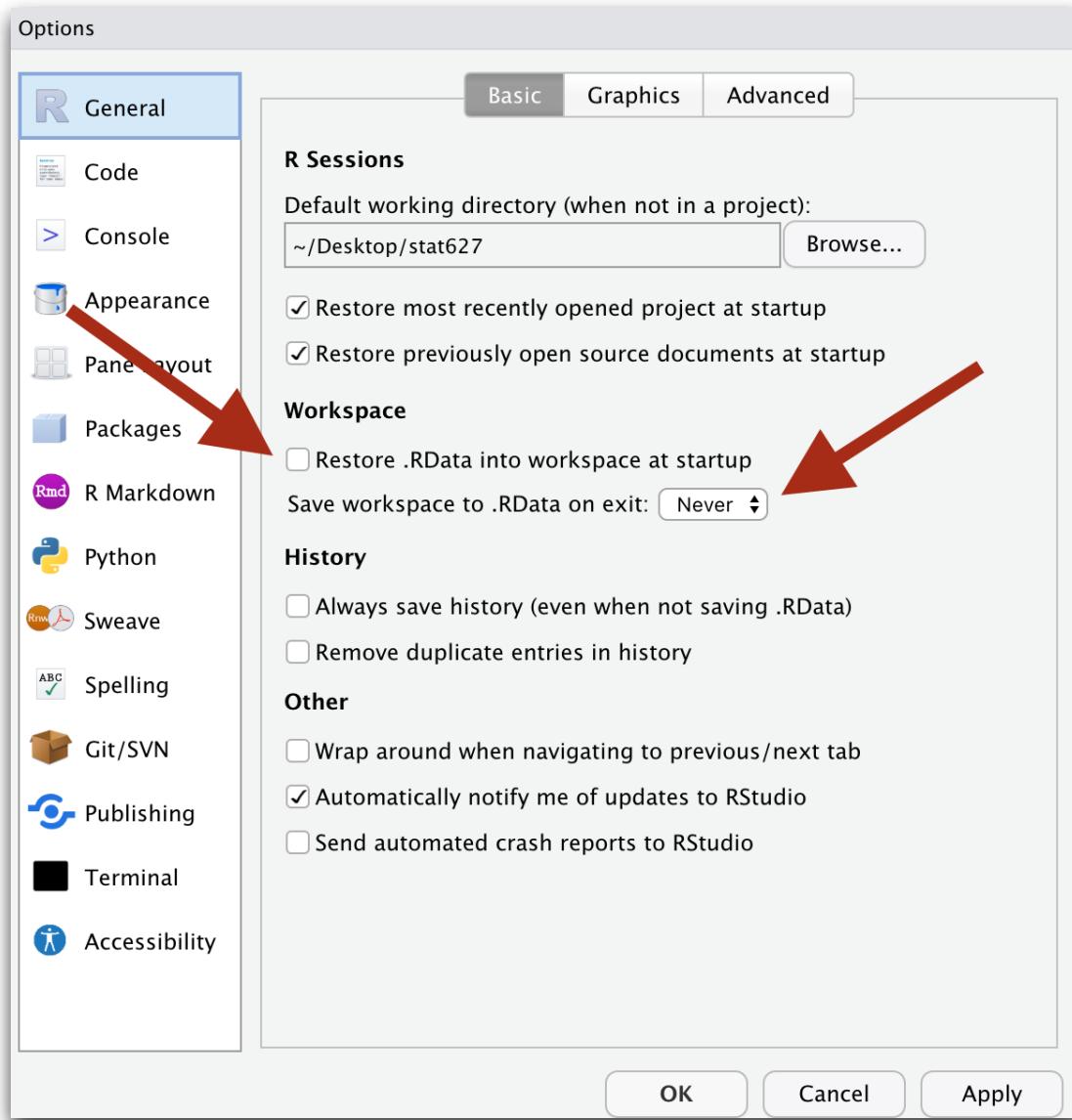
Work Smarter, Not Harder

RStudio

Barcelona R User Group

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2021-11-23



Options

-  General
-  Code
-  Console
-  Appearance
-  **Pane Layout**
-  Packages
-  R Markdown
-  Python
-  Sweave
-  Spelling
-  Git/SVN
-  Publishing
-  Terminal
-  Accessibility

Choose the layout of the panels in RStudio by selecting from the controls in each panel. Add up to three additional Source Columns to the left side of the layout. When a column is removed, all saved files within the column are closed and any unsaved files are moved to the main Source Pane.

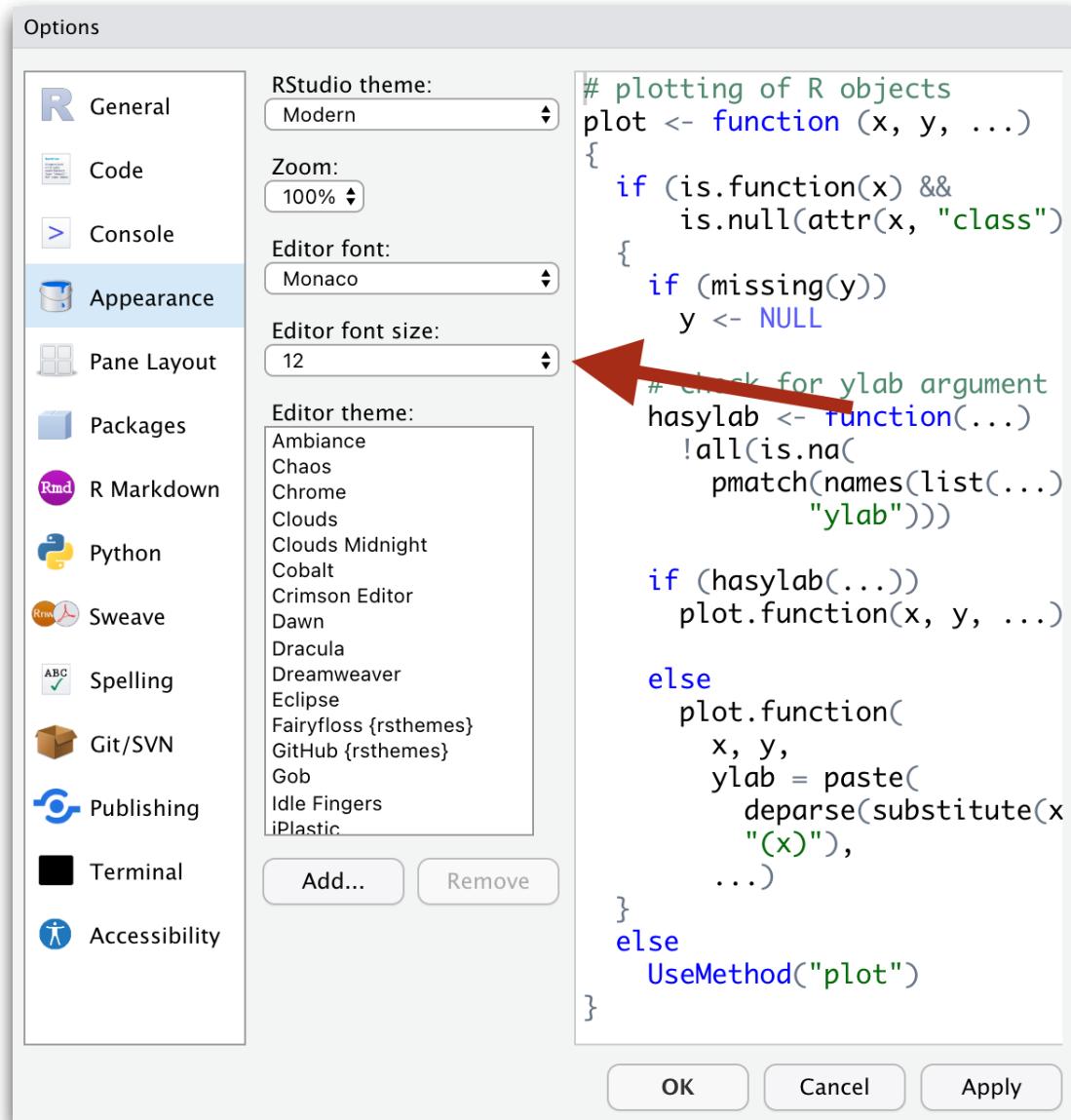
 Add Column |  Remove Column

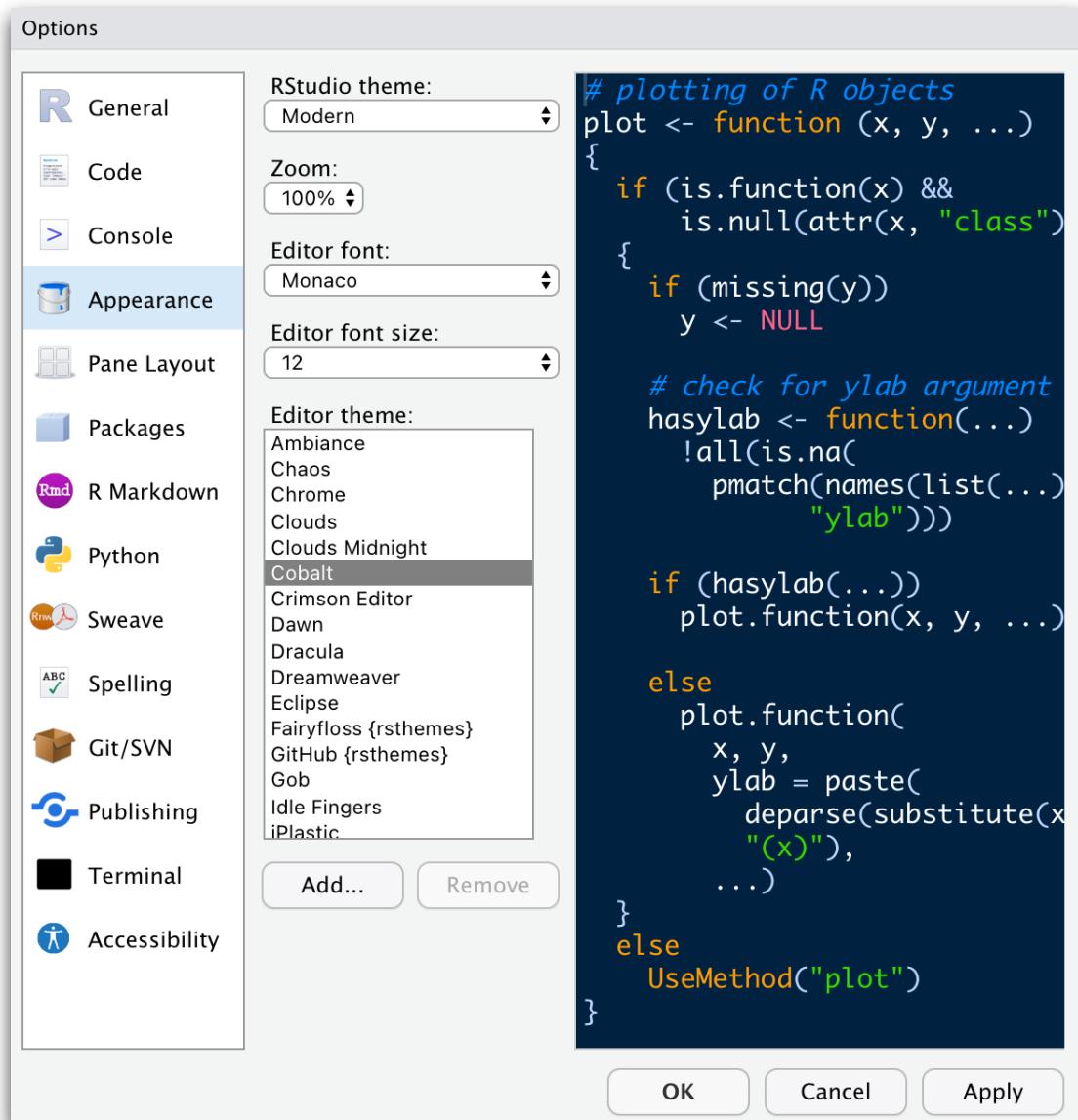
<div style="border: 1px solid #ccc; padding: 5px; width: 150px; height: 150px; margin-bottom: 10px;">Source</div> <div style="border: 1px solid #ccc; padding: 5px; width: 150px; height: 150px; margin-bottom: 10px;">Console</div> <div style="border: 1px solid #ccc; padding: 5px; width: 150px; height: 150px; margin-bottom: 10px;">Environment, History, Connectio</div> <div style="border: 1px solid #ccc; padding: 5px; width: 150px; height: 150px; margin-bottom: 10px;">Files, Plots, Packages, Help, Buil</div>	<ul style="list-style-type: none"><input checked="" type="checkbox"/> Environment<input checked="" type="checkbox"/> History<input type="checkbox"/> Files<input type="checkbox"/> Plots<input checked="" type="checkbox"/> Connections<input type="checkbox"/> Packages<input type="checkbox"/> Help<input type="checkbox"/> Build<input checked="" type="checkbox"/> VCS <ul style="list-style-type: none"><input type="checkbox"/> Environment<input type="checkbox"/> History<input checked="" type="checkbox"/> Files<input checked="" type="checkbox"/> Plots<input type="checkbox"/> Connections<input checked="" type="checkbox"/> Packages<input checked="" type="checkbox"/> Help<input checked="" type="checkbox"/> Build<input type="checkbox"/> VCS
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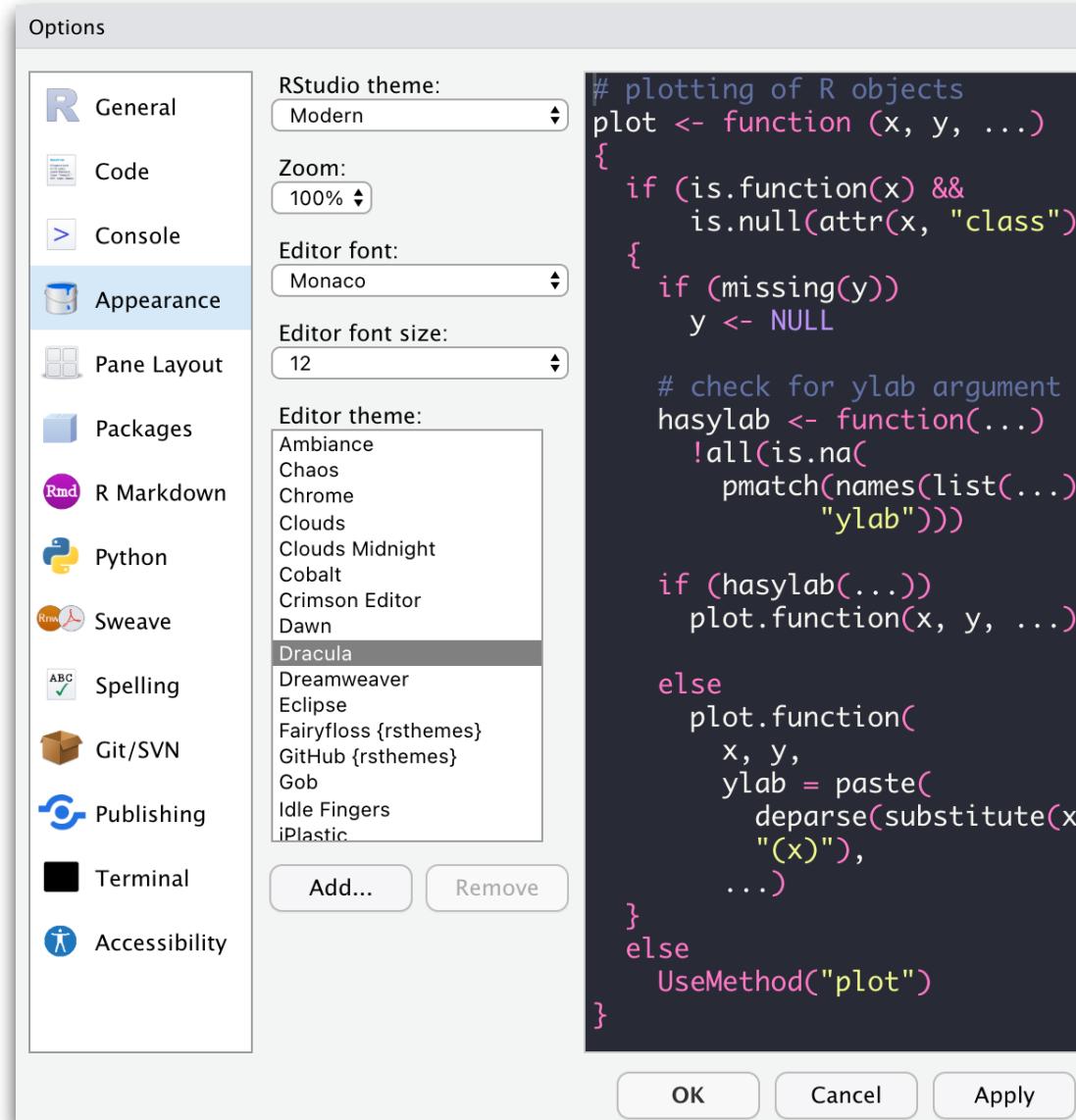
OK

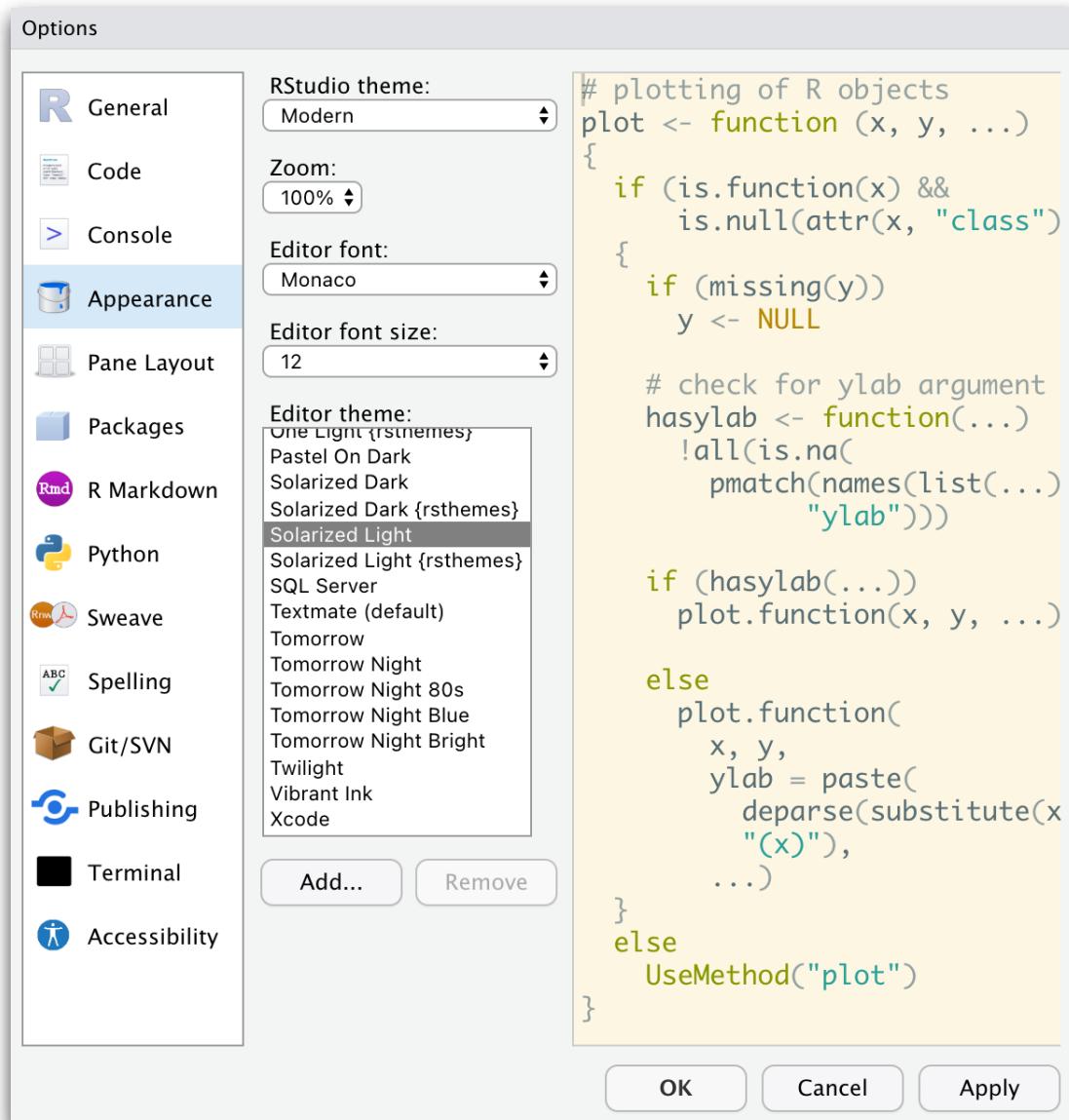
Cancel

Apply





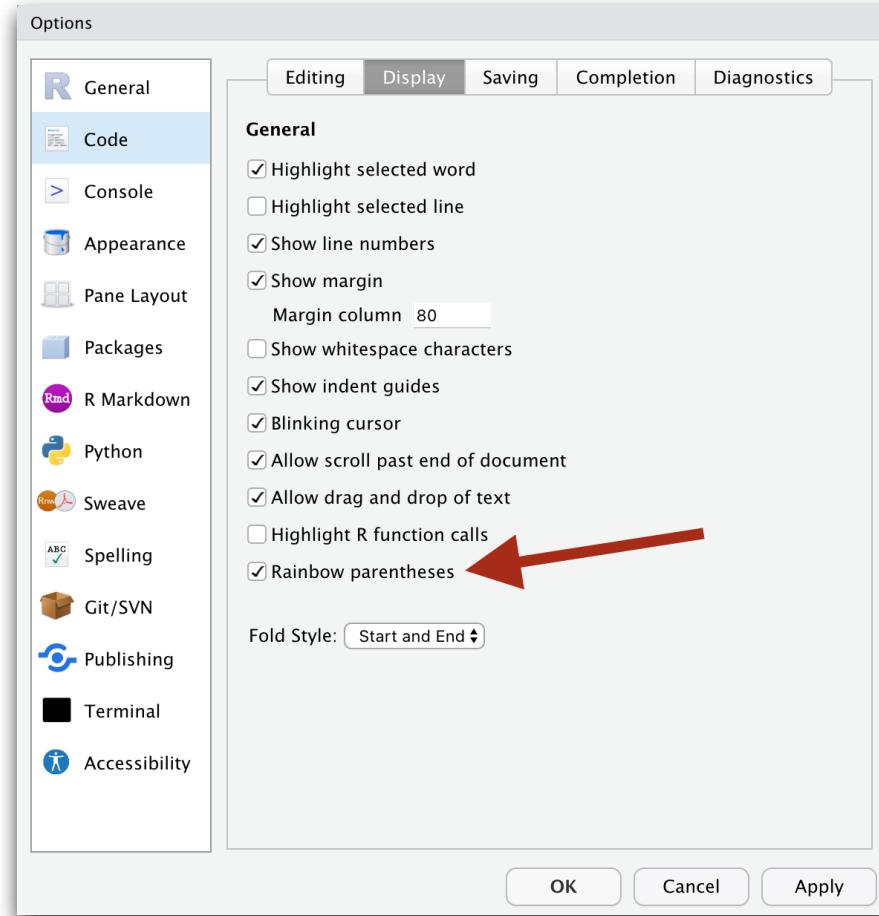




<https://github.com/gadenbuie/rsthemes>

-  **Toggle Dark Mode**
Switch between two preferred dark and light themes
-  **Auto Dark Mode**
Automatically choose a dark or light theme by time of day
-  **Favorite Themes**
Switch between a few of your favorite themes
-  **Use Default RStudio Theme**
Switch back to RStudio's default theme

Rainbow Parentheses



Rainbow Parentheses

```
```\{r}
(1 + ((3 + ((5 + (6)) + 4)) + 2))
```
```

```
```\{r}
(1 + (3 + ((5 + (6)) + 4)) + 2)
```
```

Create new chunks with shortcuts

Ctrl + Alt + I (Cmd + Option + I on macOS)



The screenshot shows a portion of an RStudio code editor window. The visible code is:

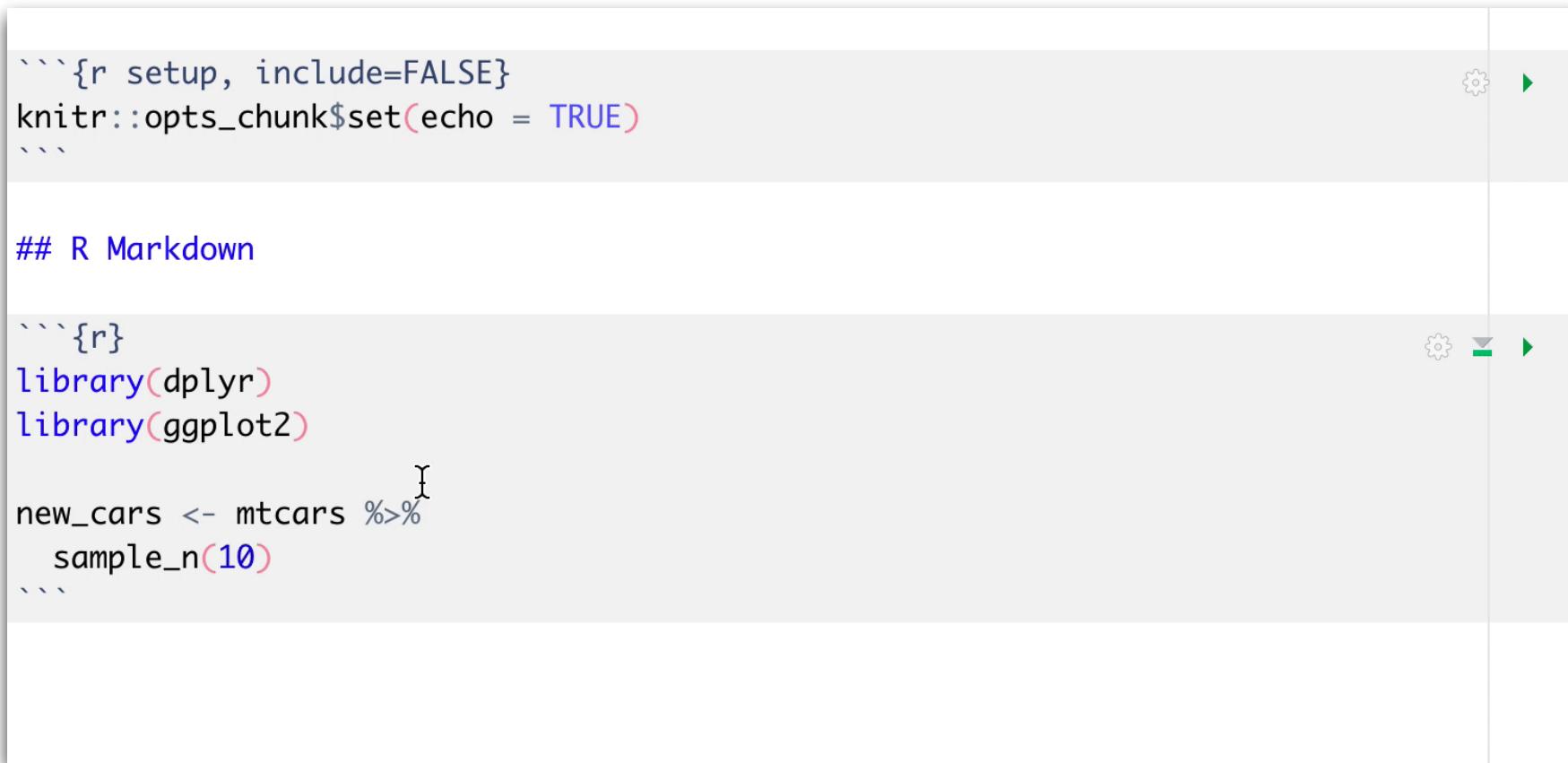
```
```{r setup, include=FALSE}
knitr::opts_chunk$set(echo = TRUE)
```

## R Markdown
```

A cursor arrow is located at the bottom-left of the code area. The top right corner of the window contains a gear icon and a green circular arrow icon.

Split existing chunks with shortcuts

Ctrl + Alt + I (Cmd + Option + I on macOS)



The screenshot shows two code chunks in RStudio. The first chunk contains:

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

The second chunk, which is currently active, contains:

```
## R Markdown

```{r}
library(dplyr)
library(ggplot2)

new_cars <- mtcars %>%
 sample_n(10)
````
```

A vertical line with a small square marker is positioned between the two chunks, indicating where the current chunk will be split if the keyboard shortcut is used.

Swap between Source and Console

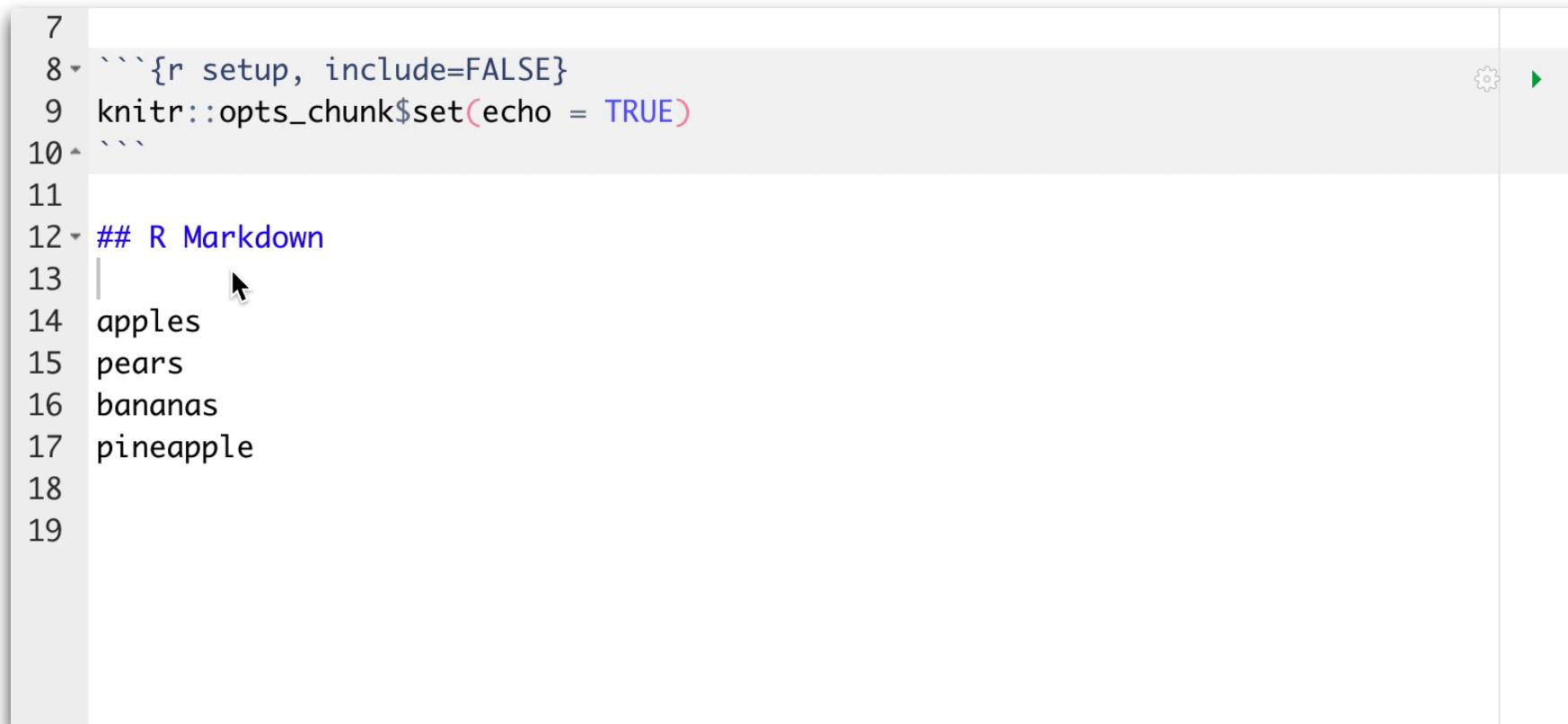
- `Ctrl + 1`: focus on source file
- `Ctrl + 2`: focus on console

Swap between Source and Console

- **Ctrl** + **Shift** + **1** = focus on source file AND make maximize that window
- **Ctrl** + **Shift** + **2** = focus on console AND maximize that window

Multiple cursors

Ctrl + Alt + {Up/Down} (Ctrl + option + {Up/Down} for MacOS)

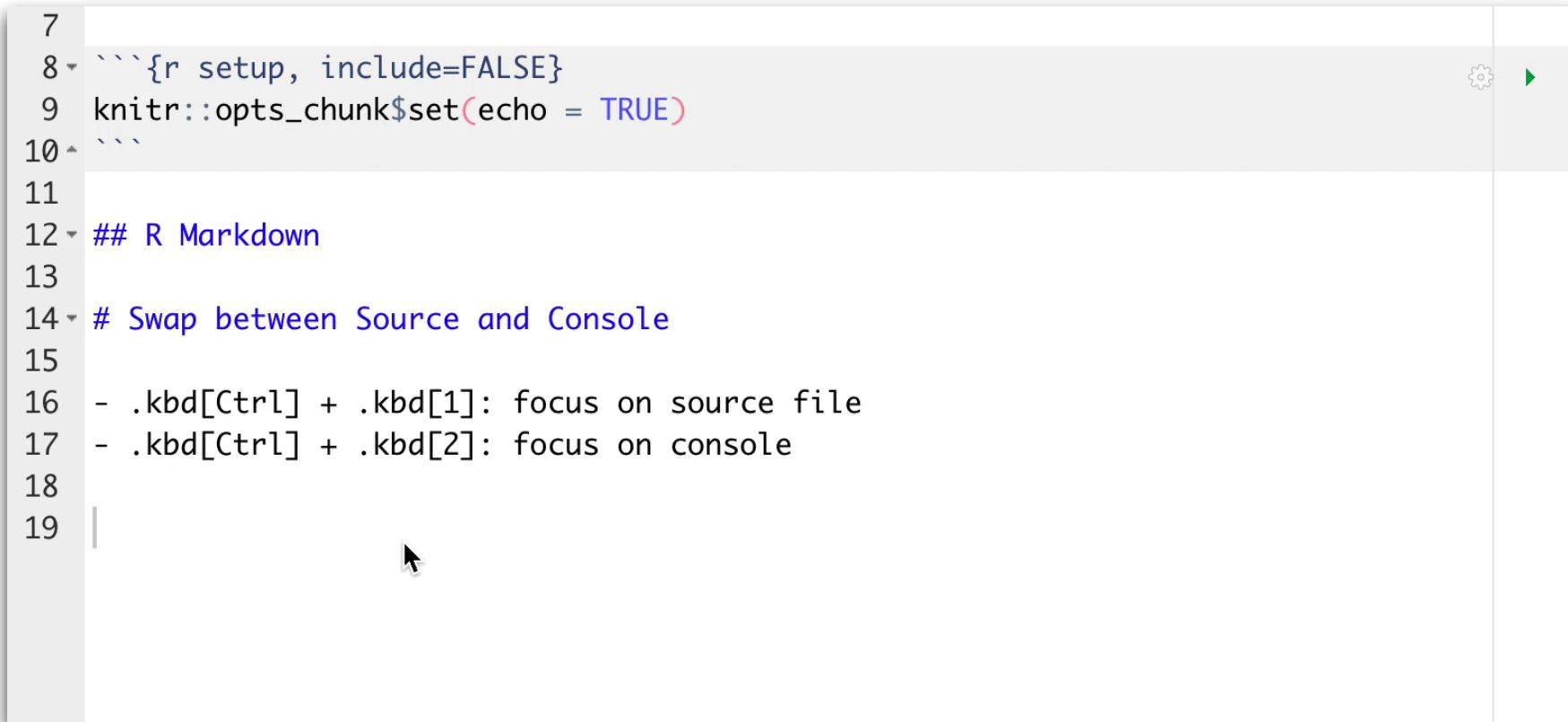


A screenshot of a code editor window showing R Markdown code. The code includes setup code, a chunk option, and a list of fruit. A cursor is positioned at the start of the word 'apples' in line 14. The code is as follows:

```
7
8 - ````{r setup, include=FALSE}
9 knitr::opts_chunk$set(echo = TRUE)
10 -
11
12 ## R Markdown
13
14 apples
15 pears
16 bananas
17 pineapple
18
19
```

Rectangular select

Hold `Alt` (`option` for MacOS) and drag

A screenshot of the RStudio interface showing a code editor window. The code is as follows:

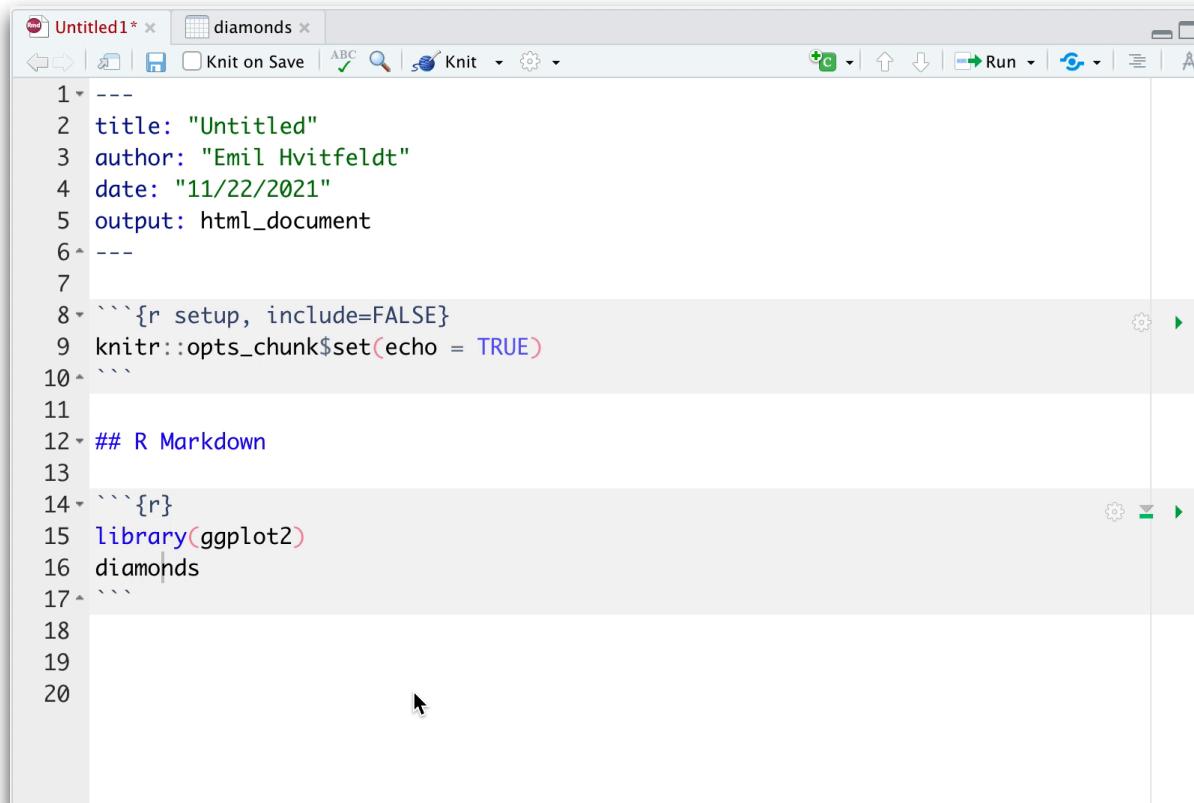
```
7
8 - ````{r setup, include=FALSE}
9 knitr::opts_chunk$set(echo = TRUE)
10 ````
11
12 ## R Markdown
13
14 # Swap between Source and Console
15
16 - .kbd[Ctrl] + .kbd[1]: focus on source file
17 - .kbd[Ctrl] + .kbd[2]: focus on console
18
19 |
```

The cursor is located at the end of line 19. A rectangular selection box is visible around the entire code block, spanning from the start of line 7 to the end of line 19. The RStudio toolbar is visible at the top right of the editor window.

```
7
8 - ````{r setup, include=FALSE}
9 knitr::opts_chunk$set(echo = TRUE)
10 ````
11
12 ## R Markdown
13
14 # Swap between Source and Console
15
16 - .kbd[Ctrl] + .kbd[1]: focus on source file
17 - .kbd[Ctrl] + .kbd[2]: focus on console
18
19 |
```

Inspect data set

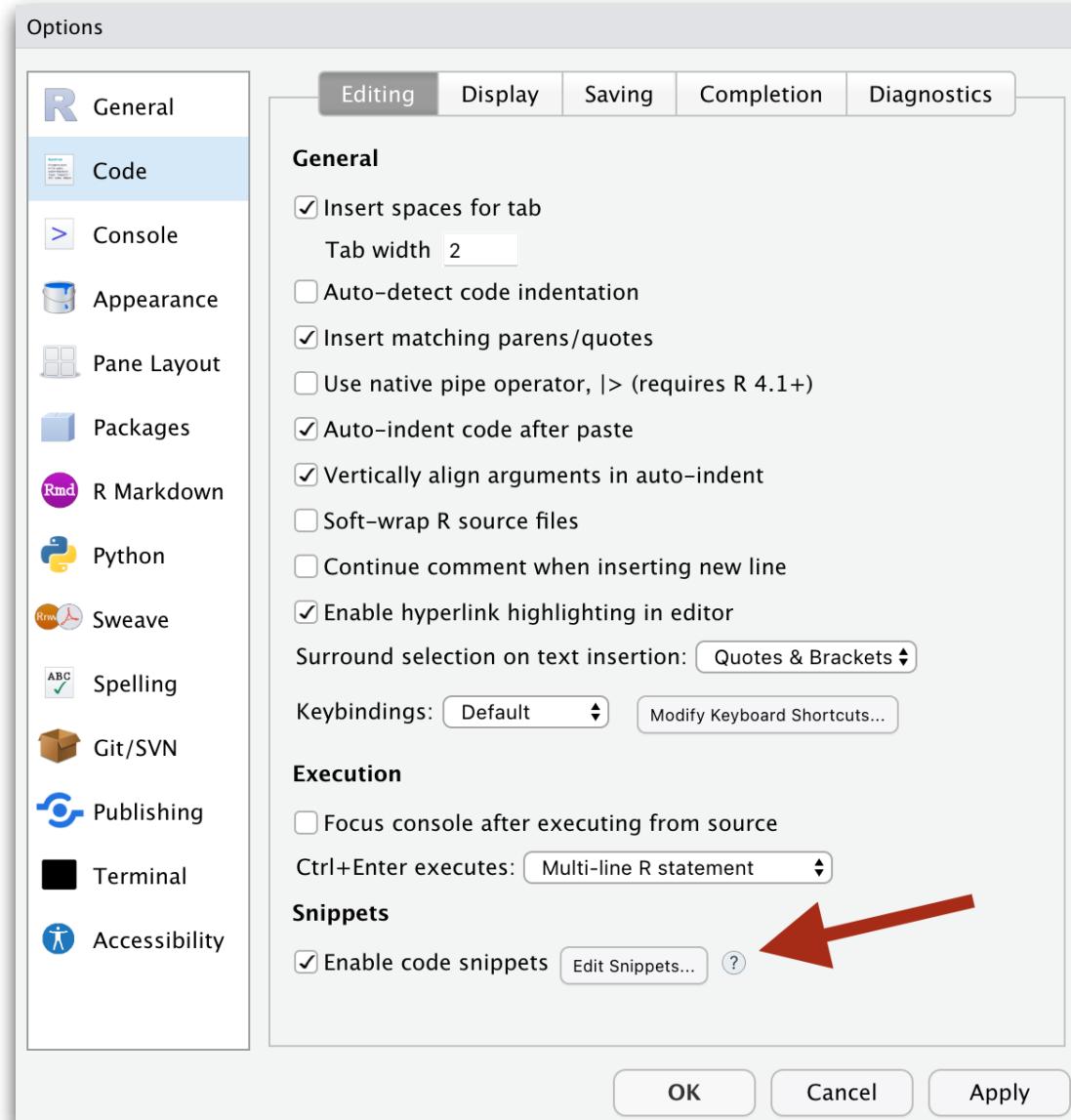
command + click -> Viewer()



The screenshot shows the RStudio interface with a code editor window. The title bar indicates the active file is "Untitled1" and there is a tab for "diamonds". The toolbar includes standard icons for file operations, knit, run, and search. The code editor displays the following R code:

```
1 ---  
2 title: "Untitled"  
3 author: "Emil Hvitfeldt"  
4 date: "11/22/2021"  
5 output: html_document  
6 ---  
7  
8 ```{r setup, include=FALSE}  
9 knitr::opts_chunk$set(echo = TRUE)  
10 ```  
11  
12 ## R Markdown  
13  
14 ```{r}  
15 library(ggplot2)  
16 diamonds  
17 ```  
18  
19  
20
```

A mouse cursor is visible at the bottom center of the code editor. The line `diamonds\$inspect()` is highlighted with a light gray background.



The screenshot shows the RStudio interface with the code editor open. The left sidebar lists various file types: R, C/C++, Markdown, TeX, JavaScript, HTML, CSS, SQL, Java, Python, Stan, and YAML. The main editor area displays a snippet library for R, which includes definitions for lib, req, src, ret, mat, sg, sm, sc, if, and el. The code uses color-coded syntax highlighting for keywords like snippet, library, require, source, return, matrix, setGeneric, setMethod, getClass, and if. Line numbers are visible on the left side of the code block.

```
1- snippet lib
2   library(${1:package})
3
4- snippet req
5   require(${1:package})
6
7- snippet src
8   source("${1:file.R}")
9
10- snippet ret
11   return(${1:code})
12
13- snippet mat
14   matrix(${1:data}, nrow = ${2:rows}, ncol = ${3:cols})
15
16- snippet sg
17   setGeneric("${1:generic}", function(${2:x, ...}) {
18     standardGeneric("${1:generic}")
19   })
20
21- snippet sm
22   setMethod("${1:generic}", ${2:class}, function(${2:x, ...}) {
23     ${0}
24   })
25
26- snippet sc
27   setClass("${1:Class}", slots = c(${2:name = "type"}))
28
29- snippet if
30   if (${1:condition}) {
31     ${0}
32   }
33
34- snippet el
35   else {
36     ${0}
37   }
38
```

Using Code Snippets Cancel Save

Edit Snippets

- R
- C/C++
- Markdown
- TeX
- JavaScript
- HTML
- CSS
- SQL
- Java
- Python
- Stan
- YAML

```
16 ${0}
17 ...
18 ...
19 ...
20
21 * snippet image
22   .center[
23     ![:scale 100%](${0})
24   ]
25
26 * snippet pull
27   .pull-left[
28     ${1}
29   ]
30
31   .pull-right[
32     ${2}
33   ]
34
35 ${0}
36
37 * snippet pullplot
38   .pull-left[
39     ```${r ${1}, dev='png', fig.show='hide'}
40     ${2}
41     ```
42   ]
43
44   .pull-right[
45     ```${r, echo=FALSE}
46   knitr:::include_graphics(
47     knitr:::fig_chunk("${1}", "png")
48   )
49   ```
50   ]
51
52 ${0}
```

Using Code Snippets

Cancel Save

The screenshot shows the RStudio interface with the following details:

- Title Bar:** Untitled1*
- Toolbar:** Includes icons for Open, Save, Knit on Save, ABC, Knit, Settings, and Run.
- Code Editor:** Displays an R Markdown document with the following content:

```
1 ---  
2 title: "Untitled"  
3 author: "Emil Hvitfeldt"  
4 date: "11/22/2021"  
5 output: html_document  
6 ---  
7  
8 ```{r setup, include=FALSE}  
9 knitr::opts_chunk$set(echo = TRUE)  
10```  
11  
12## R Markdown  
13  
14```{r}  
15 s3|  
16```  
17  
18  
19  
20  
21
```
- Run Buttons:** Located in the top right, there are two sets of buttons for running code: one for the current chunk and one for the entire document.

The screenshot shows the RStudio interface with an R Markdown file named "Untitled1" open. The code in the file is:

```
1 ---  
2 title: "Untitled"  
3 author: "Emil Hvitfeldt"  
4 date: "11/22/2021"  
5 output: html_document  
6 ---  
7  
8 ```{r setup, include=FALSE}  
9 knitr::opts_chunk$set(echo = TRUE)  
10```  
11  
12 ## R Markdown  
13  
14
```

An "Addins" menu is open on the right side of the interface, listing various packages and their functions. The "RDPACK" section is currently active, showing the following options:

- Reprompt
- BLOGDOWN
- Serve Site
- New Post
- Update Metadata
- Insert Image
- Touch File
- Quote Poem
- BOOKDOWN

Below this, other sections like "Preview Book", "Input LaTeX Math", and "CLIPR" are listed, along with "COLOURPICKER", "Plot Colour Helper", "Colour Picker", and "COVR". At the bottom of the menu, there are links for "Calculate package test coverage" and "DATAPASTA".

Addins

<https://github.com/EmilHvitfeldt/emiladdins>

Create your own shortcuts

<https://pkg.garrickadenbuie.com/shrtcts/>

Thank you!



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Slides created via the R package [xaringan](#).