

Hands-On Activity: Adding code chunks to R Markdown notebooks

TOTAL POINTS 2

1.



Overview

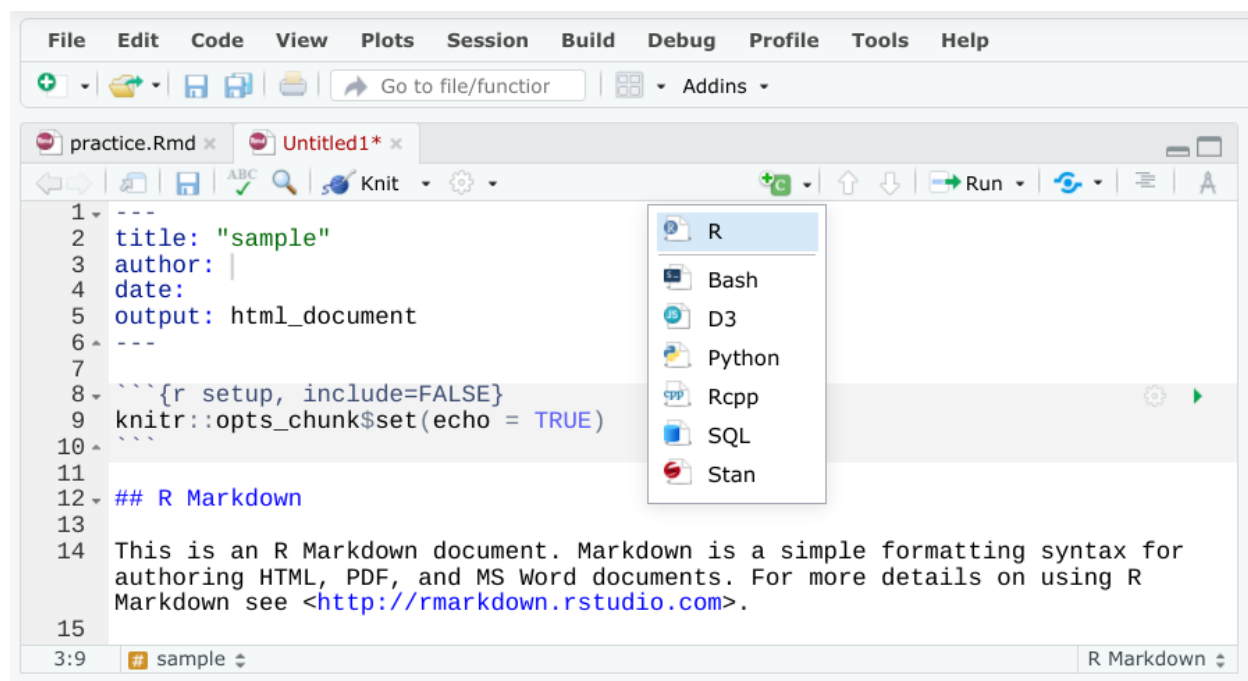
Earlier in this course, you created a visualization using the `ggplot()` function. You also learned how to create an R Markdown notebook. In this activity, you will combine and apply your knowledge by adding the code you used to create a visualization to a RMarkdown notebook.

By the time you complete this activity, you will be able to make and format an `.rmd` file containing the visualizations you created using `ggplot2`. This will allow you to track and share analysis and also share the R code you use to create visualizations. This will prove useful if you want to give other data analysts an interactive way to test out your code and better communicate findings to your stakeholders and colleagues.

Add code chunks to your RMarkdown notebook

1. To start, log in to your RStudio Cloud account.

2. Next, open a new R Markdown notebook and create a code block section. Notebook chunks can be inserted quickly using the keyboard shortcut **Ctrl + Alt + I** (Windows) or **Cmd + Option + I** (Mac). Code chunks can also be added using the Insert menu in the editor toolbar.



Code chunks are designated in R Markdown with **delimiters**. A delimiter is a character that indicates the beginning or end of a data item. In this case, the code chunk is marked using three ticks followed by a curly bracket, descriptive text, and a closed curly bracket. You then have an empty space to add the appropriate code. Here is the general syntax:

```
```{r}
```

```
```
```

When creating code chunks, it is useful to keep in mind that the output of the code chunk will appear immediately after the chunk when it is executed. Because of that, it is good practice to split chunks that produce multiple outputs into two or more chunks. That way, each code chunk only produces one output, which can be easier for users to execute and explore.

3. Using the code from your `ggplot()` visualization, create two new chunks. Type the following in the first code chunk to call the required libraries, load the penguins data, and return a view of the penguins data:

```
```{r ggplot for penguin data}
```

```
library(ggplot2)
```

```
library(palmerpenguins)
```

```
data(penguins)
```

```
View(penguins)
```

```
```
```

Note that the only output from the code chunk is a tabular view of your data as result of the View function.

4. Then, type the following in the second code chunk to create the visualization:

```
```{r ggplot for penguin data visualization}
```

```
ggplot(data = penguins) +
```

```
 geom_point(mapping = aes(x = flipper_length_mm, y = body_mass_g))
```

```
```
```

5. Finally, run each code chunk to examine the results. You might recognize this visualization from a [previous activity](#).

Congratulations! You can now add your visualizations to an R Markdown notebook. Code chunks are a great way to explain your data analysis process and allow other users to explore your work. Try adding as many code chunks to your R Markdown notebook as possible to make your notebook an interactive experience.