


Week-1: Code-along

NM2207: Computational Media Literacy

2023-08-13

Welcome! Here is your first try with  and R Studio. Worry not, go through the steps described below, *carefully*. It is totally fine to get stuck - **ASK FOR HELP**; reach out to your friends, TAs, or the discussion forum on Canvas.

Here is what you have to do,

1. **Listen** to the video lectures
2. **Follow** the instructions in this file for assistance with configuring the required software suite

I. Installation of R and R Studio

1. **Windows users** please follow the installation instructions in the link below

<https://teacherscollege.screenstepslive.com/a/1108074-install-r-and-r-studio-for-windows>

2. **Macbook users** please follow the installation instructions in the link below

<https://teacherscollege.screenstepslive.com/a/1135059-install-r-and-r-studio-for-mac>

II. R Markdown

1. Click on File -> New File -> R Markdown

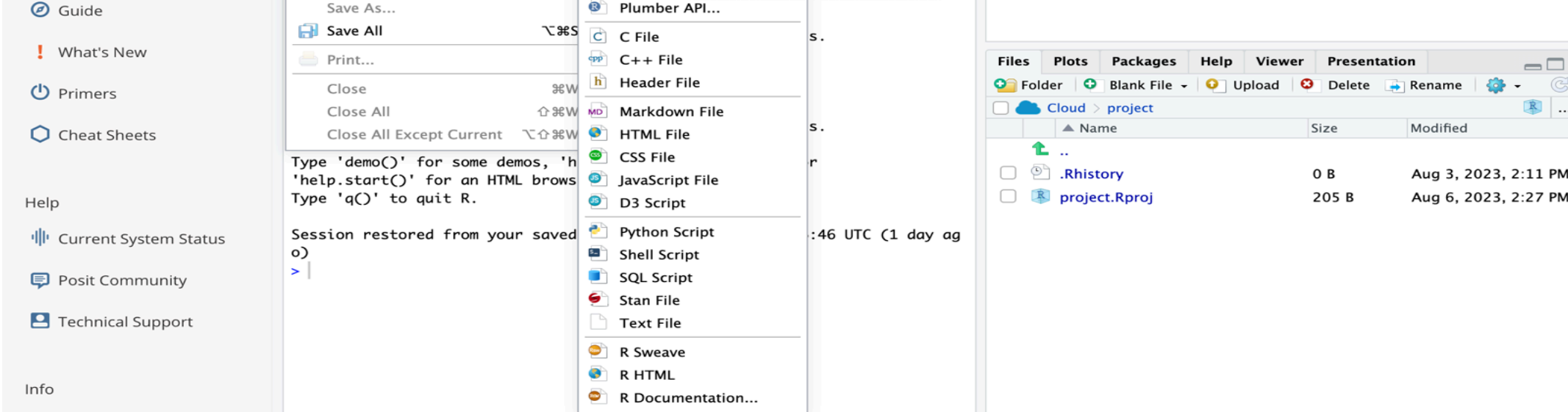


Figure: Creating a new R Markdown file

2. A dialog box will pop up asking whether you want to install certain “packages”.
 - Click **Yes** and then wait while those packages are installed

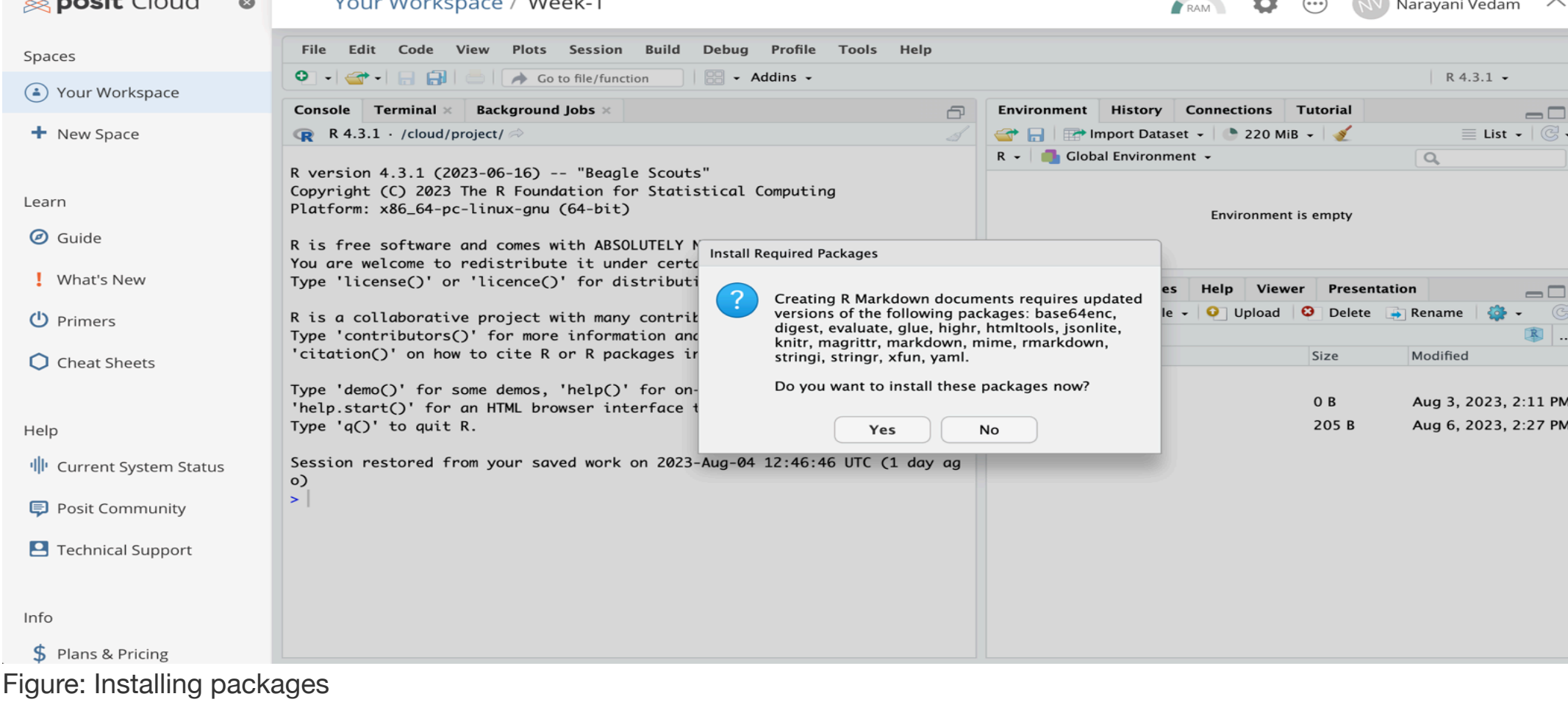


Figure: Installing packages

3. A box will pop-up, where you can name the new “R Markdown” document
 - Give it any name – for e.g. Challenge 1 and then the name of the “author” i.e. yourself
 - Ensure that “HTML” is selected as the “Default Output Format”
 - Try picking the other formats too and see for yourself how the output files change.

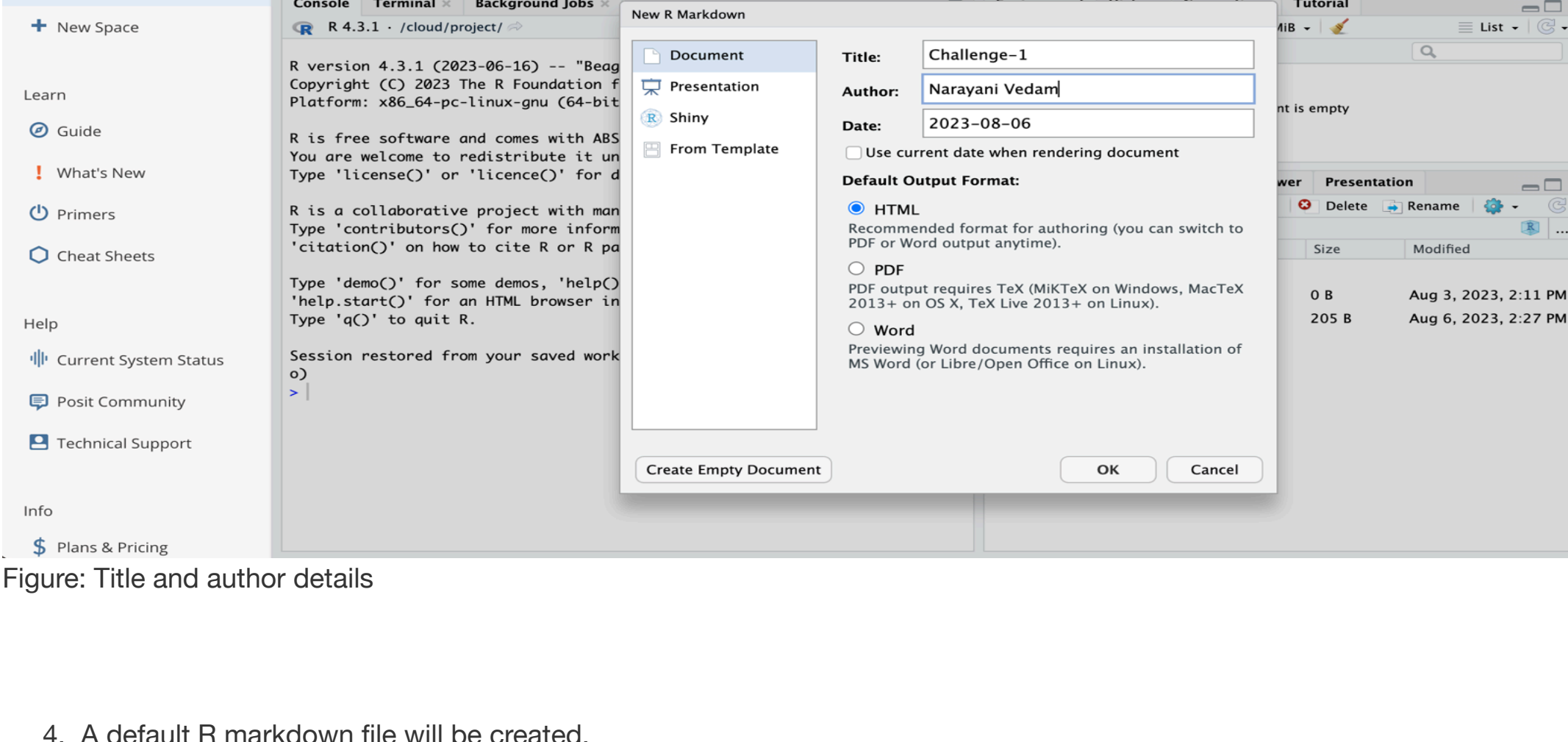



Figure: Title and author details

4. A default R markdown file will be created.
 - This is a raw file and is full of  code and text.
 - Don't worry, you don't need to understand any of it at the moment.

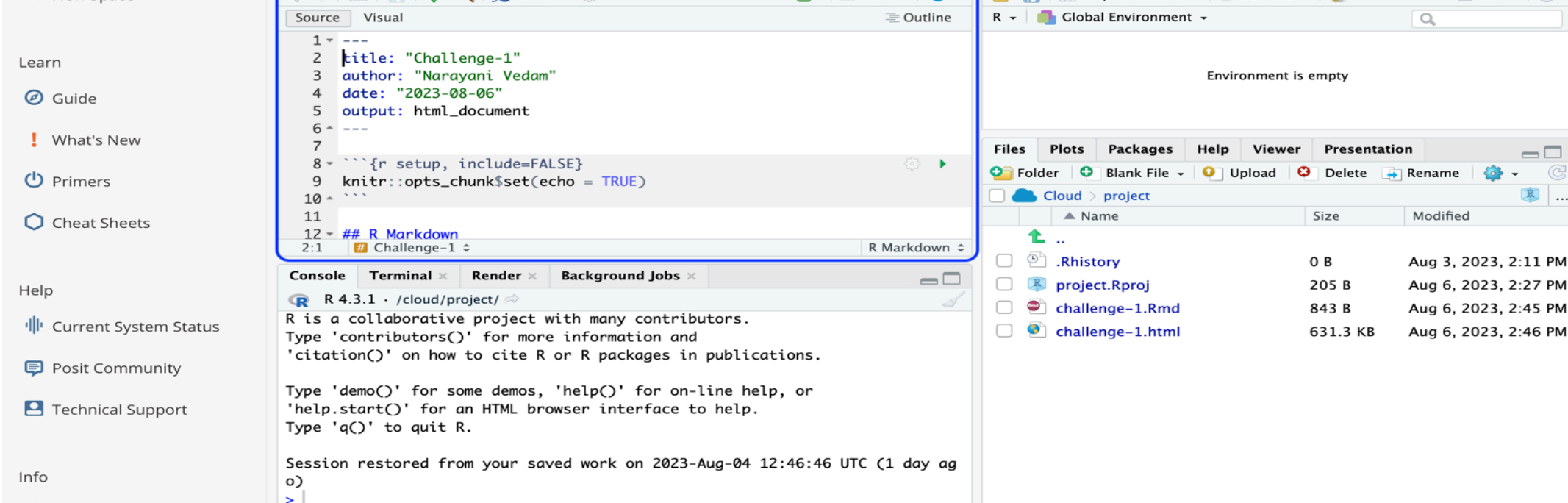


Figure: Raw R Markdown file

5. Just click on “Knit”.

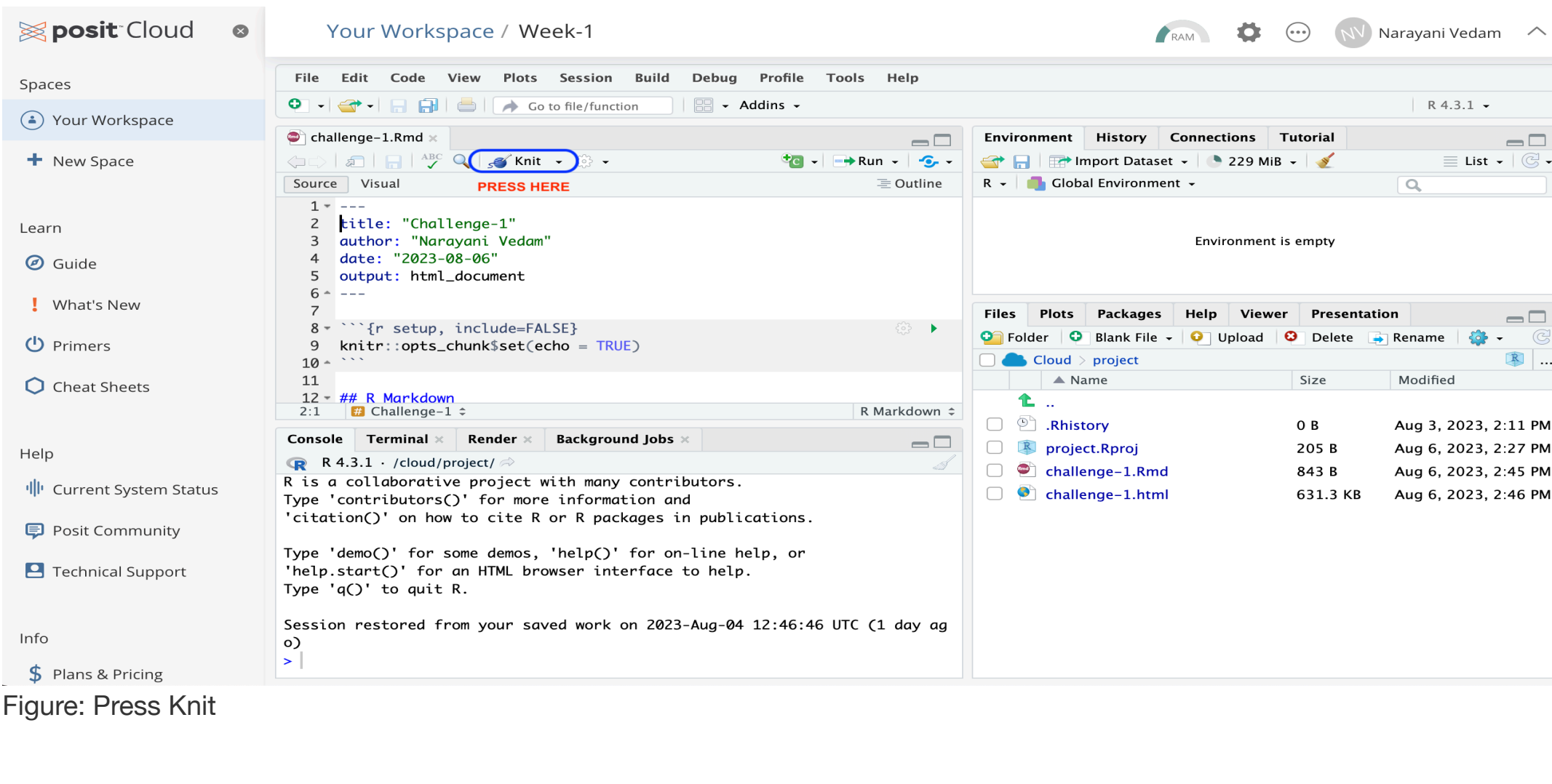


Figure: Press Knit

6. You will be asked to save the file, enter a filename

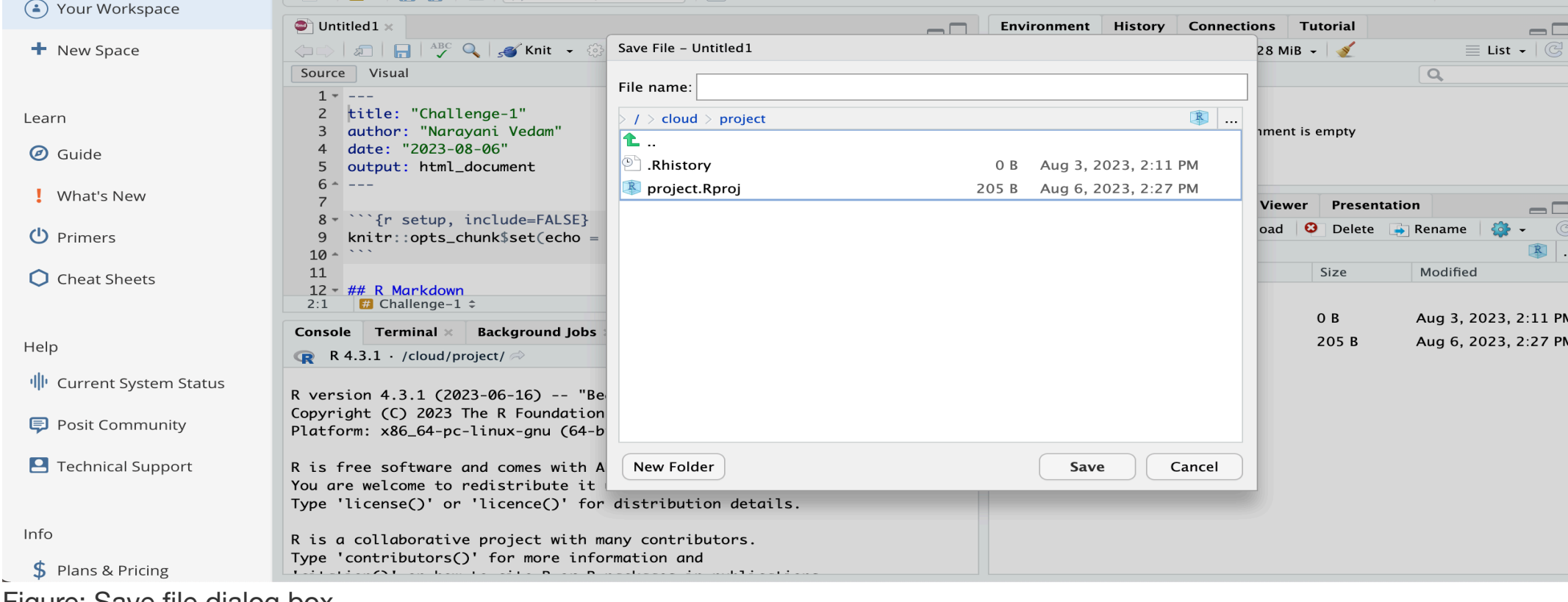


Figure: Save file dialog box

What does “Knit” do?

It runs all the code in the raw file, stitches the output of all code with the text in the raw file and creates an R Markdown document. Since you had chosen “HTML” as output format, it will create an HTML file, i.e. a regular webpage showing the result of all the code in the raw file.

7. The saved file(s) can be found in the Files pane (bottom right corner of your IDE)

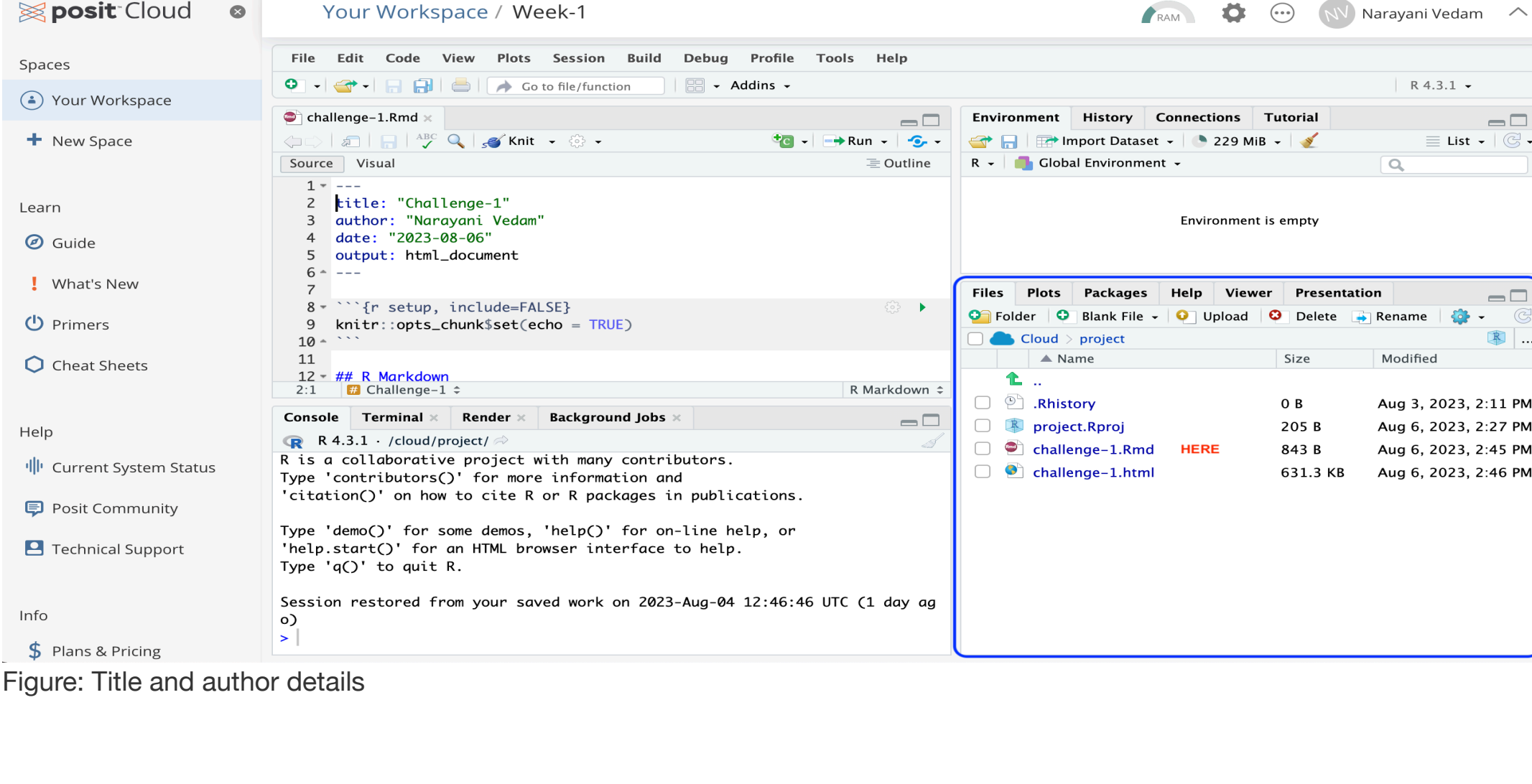


Figure: Title and author details

8. Upon saving, the output .html file will be automatically generated

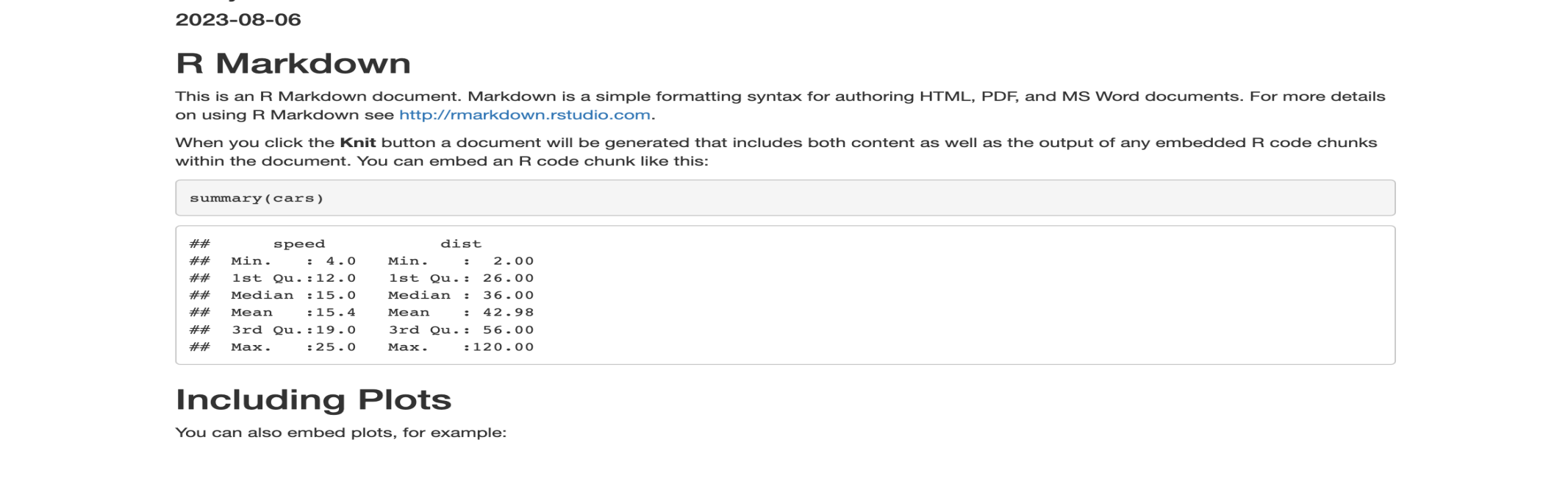


Figure: Output .html file