

# Week-1: Code-along

NM2207: Computational Media Literacy

2023-08-13

**Welcome!** Here is your first try with **R** and posit Cloud. 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

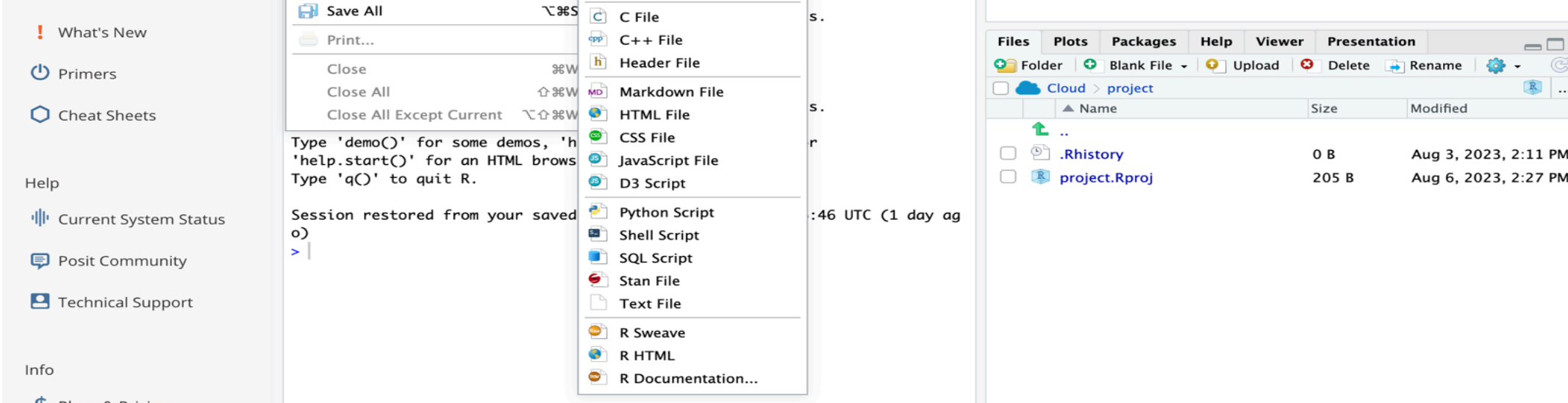


Figure: Creating a new R Markdown file

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

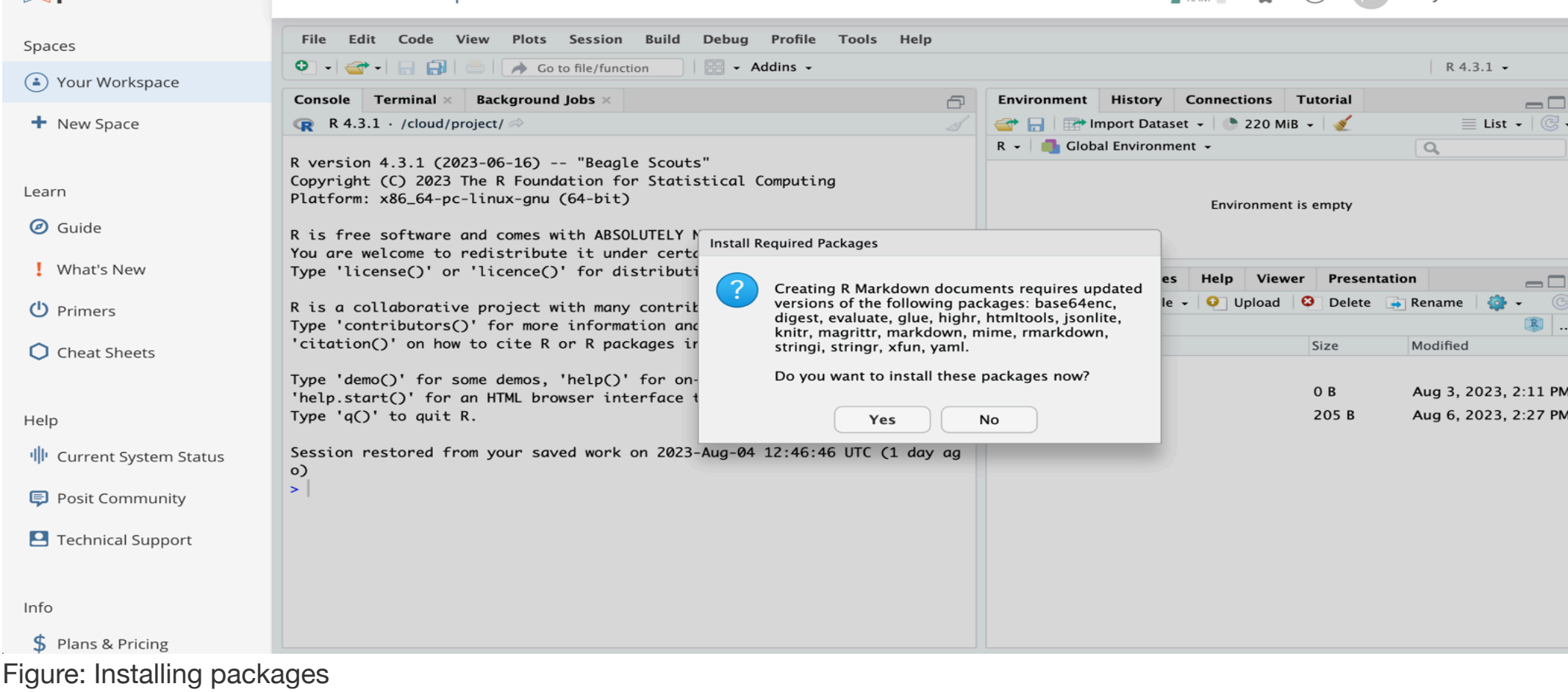


Figure: Installing packages

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.

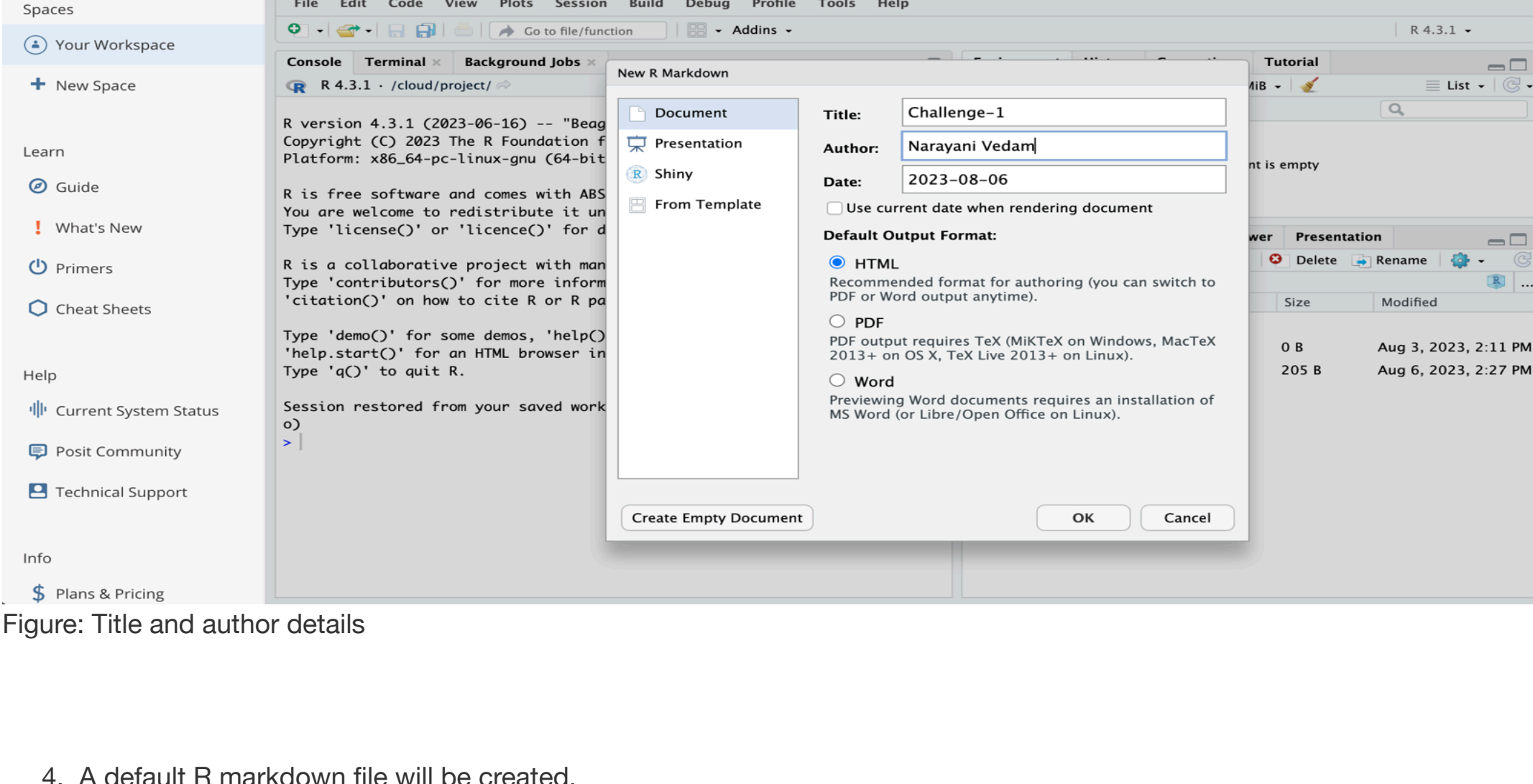


Figure: Title and author details

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

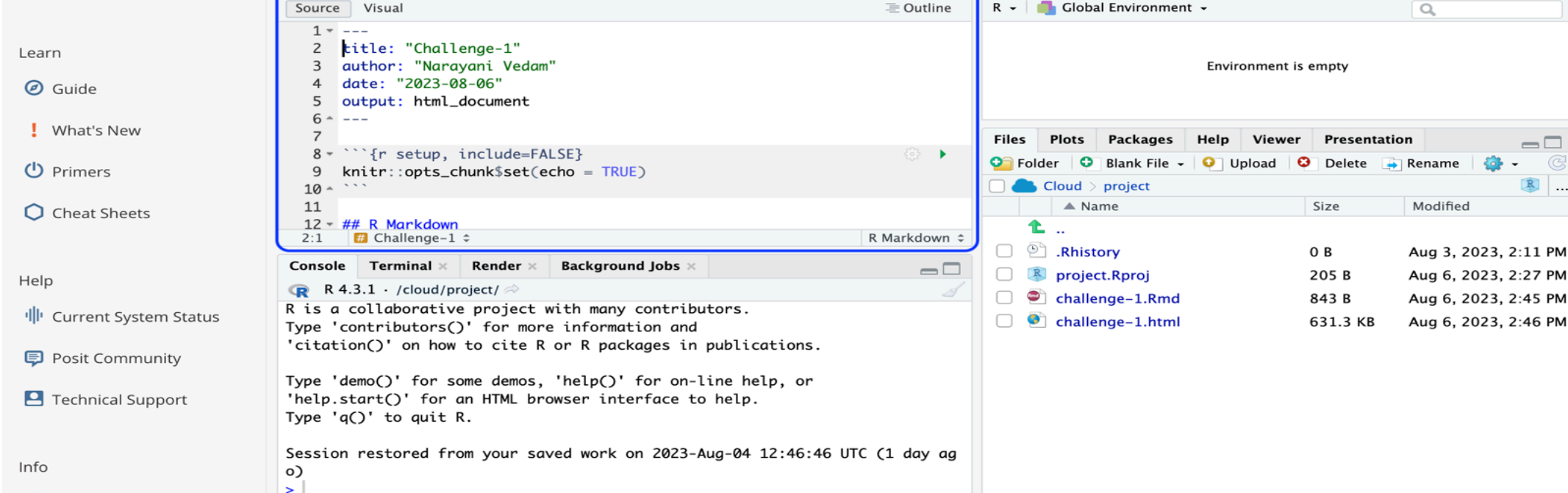


Figure: Raw R Markdown file

5. Just click on “Knit”.

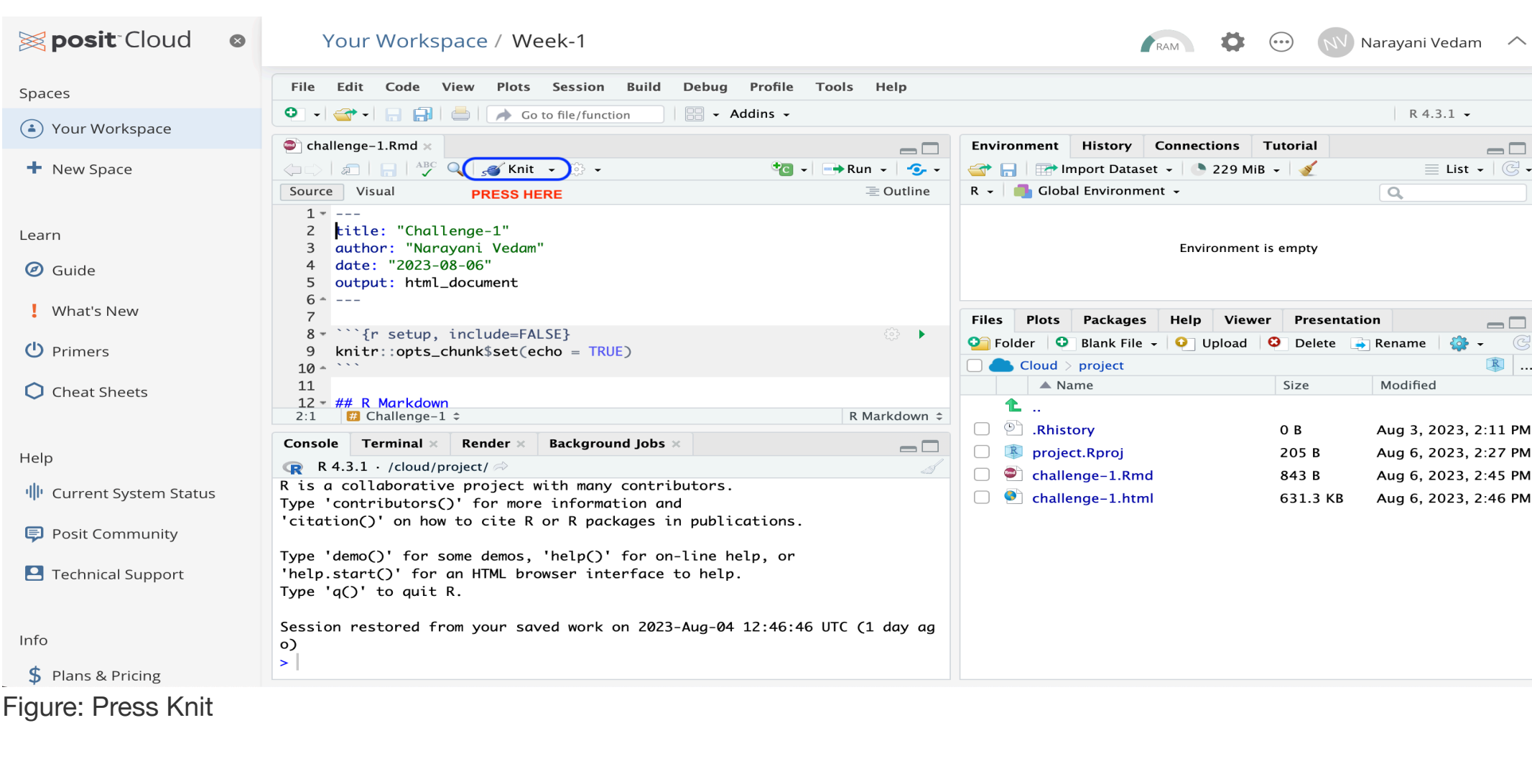


Figure: Press Knit

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

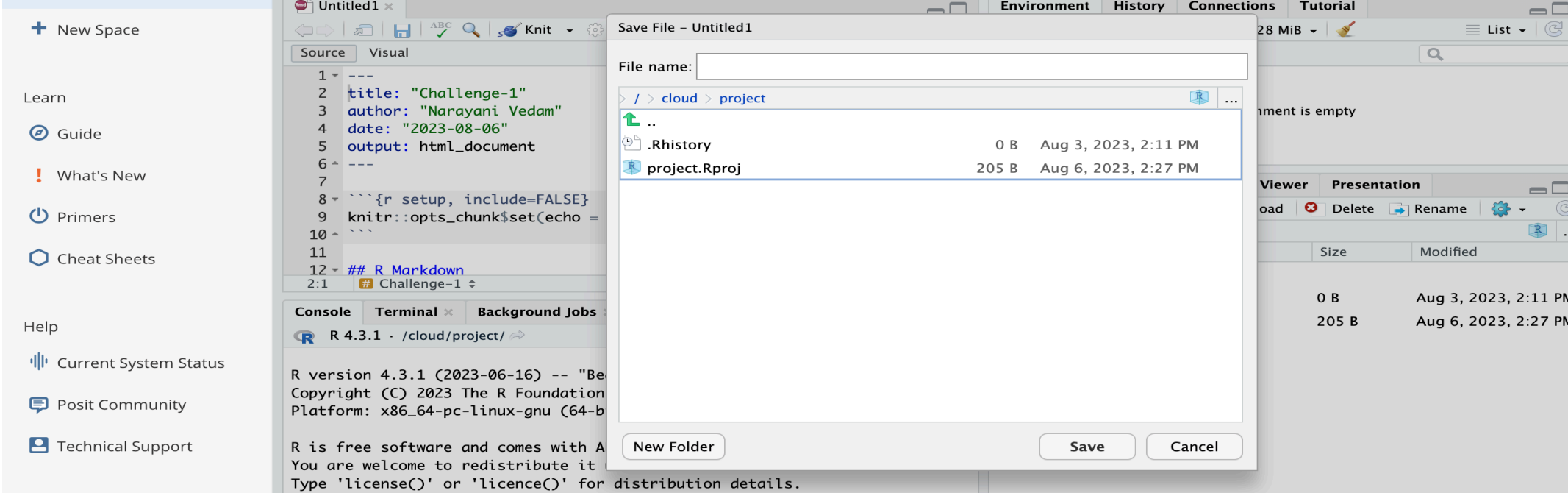


Figure: Save file dialog box

*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)

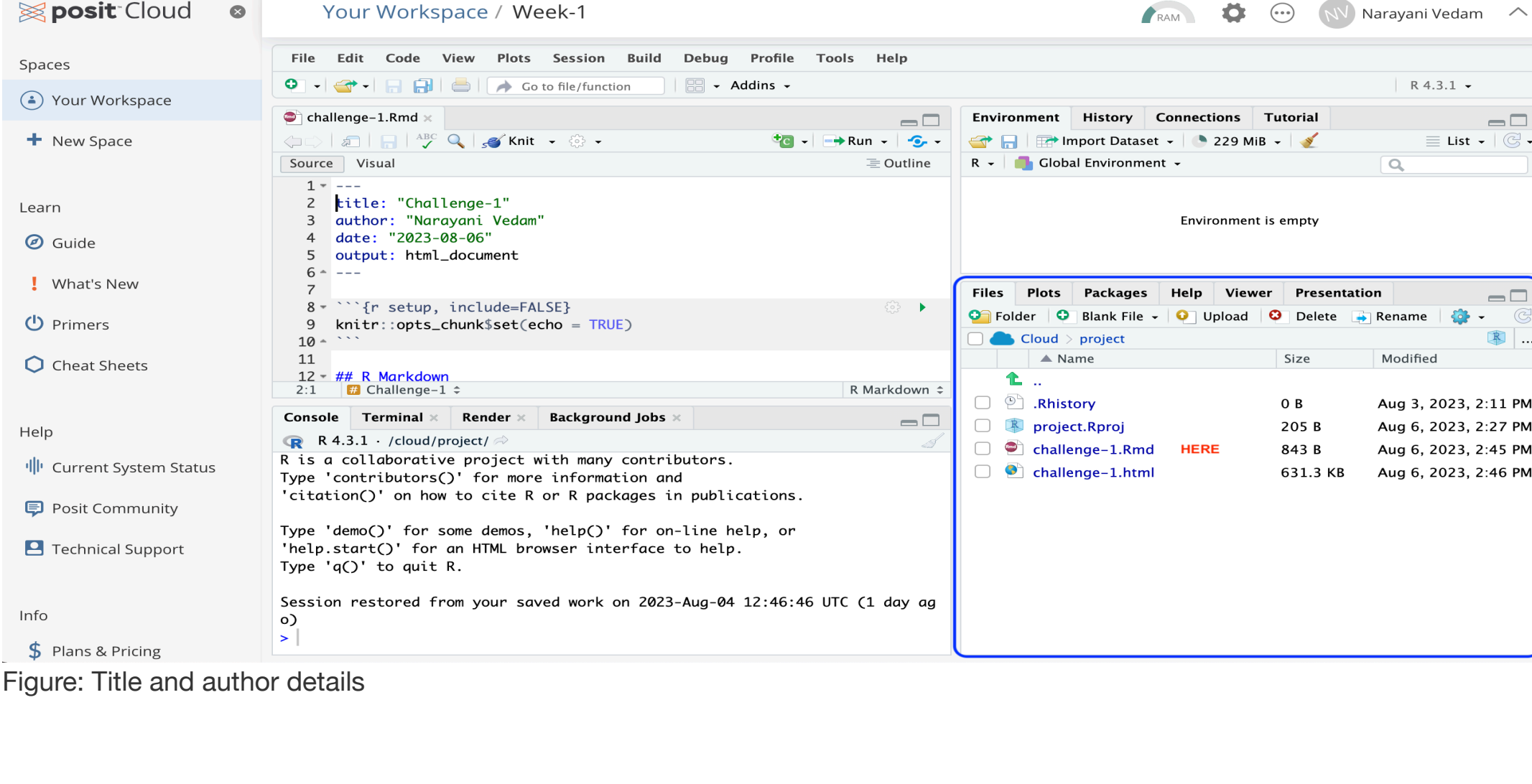


Figure: Title and author details

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



Figure: Output .html file