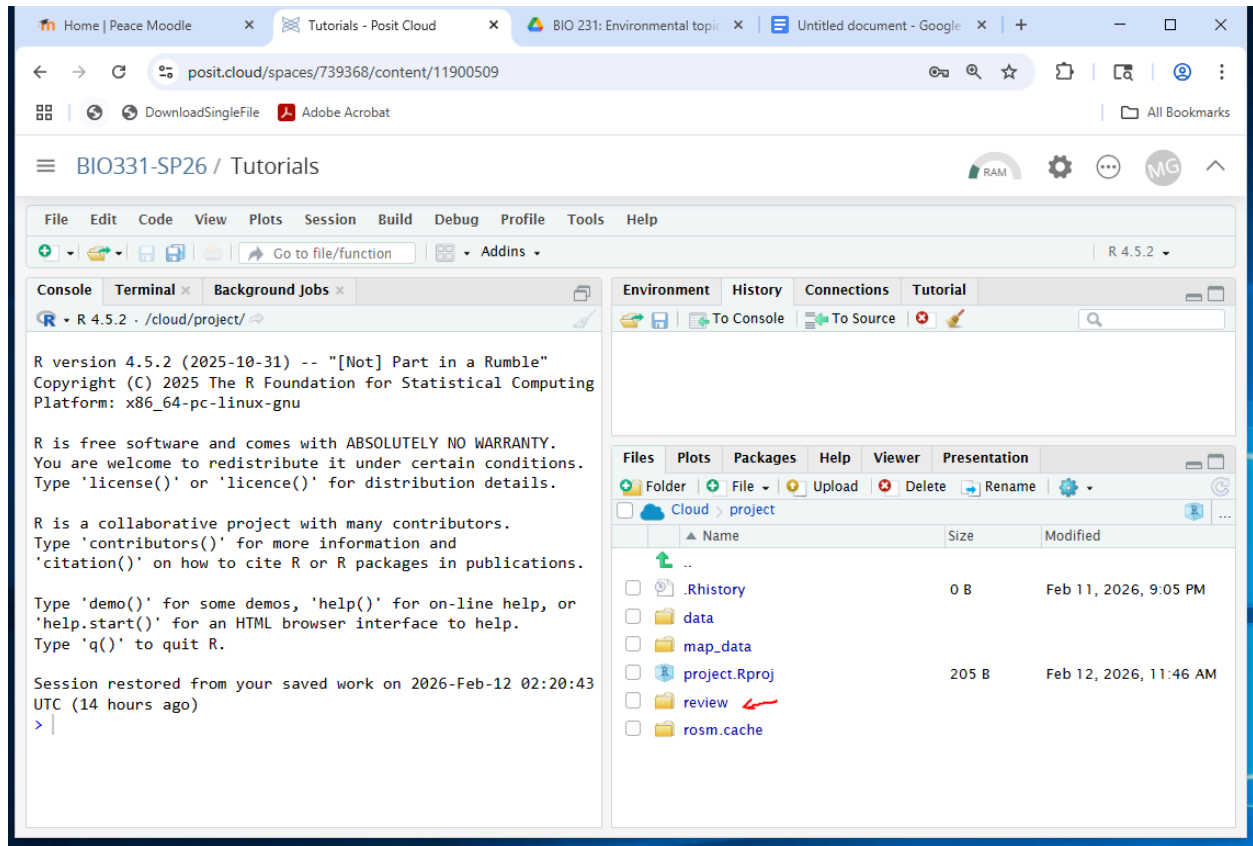


Running the exam 1 review tutorial

Step 1: Open the Tutorials project in your Posit Cloud Account

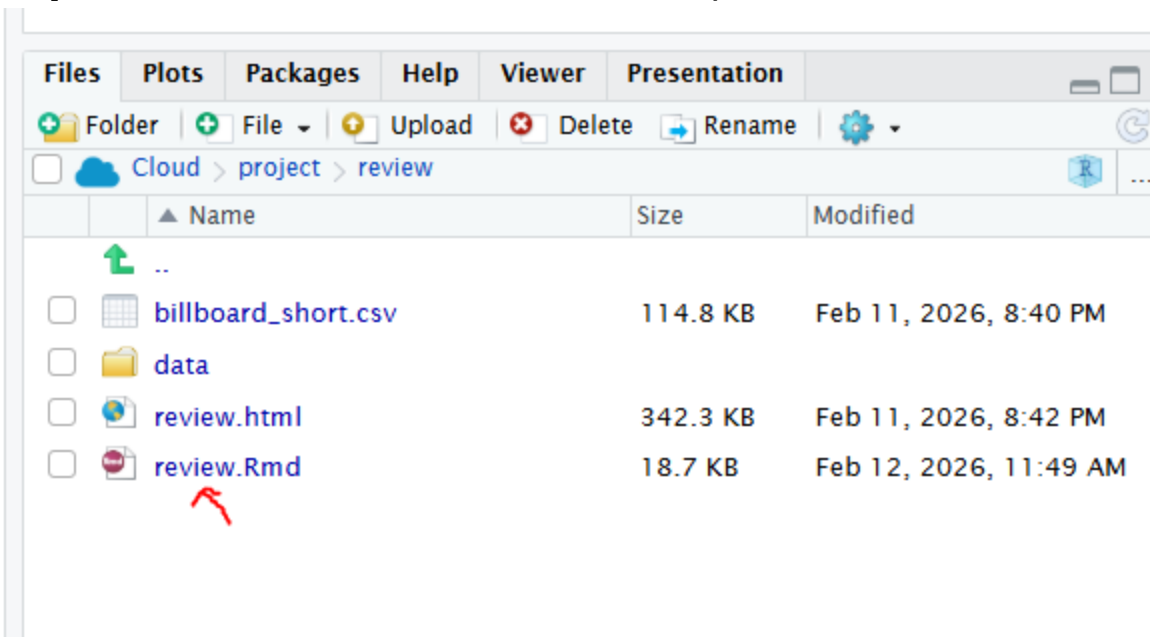
Step 2: Click on the review folder



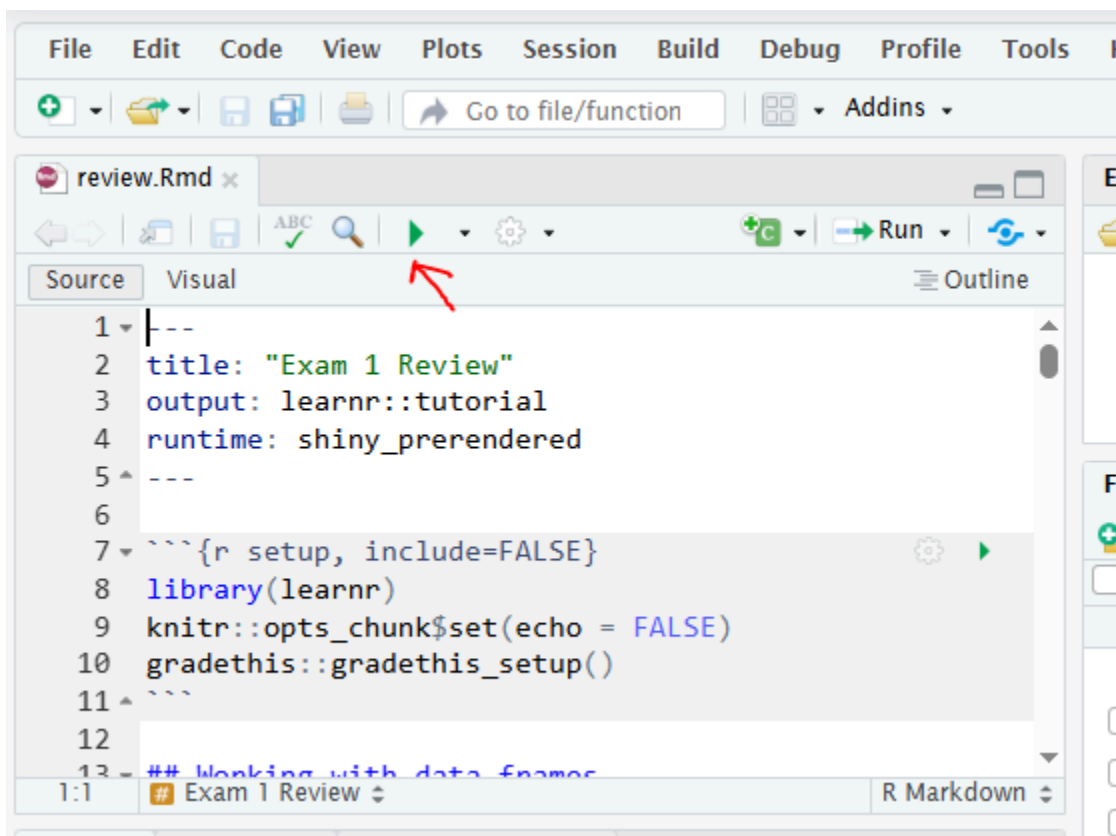
The screenshot displays the Posit Cloud web interface. The browser address bar shows the URL `posit.cloud/spaces/739368/content/11900509`. The page title is "BIO331-SP26 / Tutorials". The interface includes a menu bar with options like File, Edit, Code, View, Plots, Session, Build, Debug, Profile, Tools, and Help. Below the menu bar is a toolbar with icons for file operations and a "Go to file/function" input field. The main workspace is divided into several panels:

- Console:** Shows the R version 4.5.2 (2025-10-31) and the R startup message, including the license and help information. The session was restored from saved work on 2026-Feb-12 02:20:43 UTC (14 hours ago).
- Environment:** Shows the current R environment, including the path `~/cloud/project/`.
- Files:** A file explorer showing the contents of the `project` folder. The files listed are `..`, `.Rhistory`, `data`, `map_data`, `project.Rproj`, `review` (highlighted with a red arrow), and `rosm.cache`.

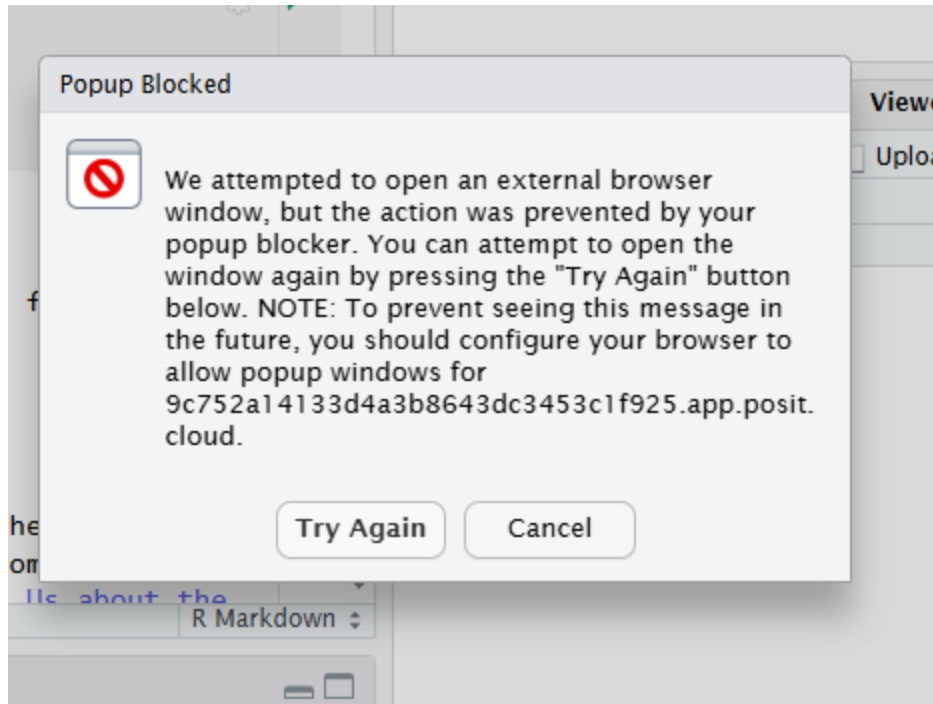
Step 3: Click on the review.Rmd file to open it



Step 4: In the review.Rmd file, click on the green triangle to open the tutorial



Step 5: In Rstudio, you may have to click Try Again, if an error message occurs. But the tutorial should now open for you to complete.



You will see:

Exam 1 Review

Working with data frames

Using dplyr functions

Data visualization with ggplot2

Start Over

Working with data frames

In this activity, we will review the basics of working with data frames.

Import files into R

The first thing to do is read the data frame file into R.

In this tutorial, we will work with data for every top song on the Billboard Hot 100 between August 4, 1958 and January 11, 2025. This data was compiled by Chris Dalla Riva for his book, *Uncharted Territory: What Numbers Tell Us about the Biggest Hit Songs and Ourselves*. The file is a condensed version of the original data and is named `billboard_short.csv` and can be accessed using a link to our class website.

Here, we will assign the file the name `music`. Fill in the blank with the correct code for importing data into R.

```
R Code Start Over Run Code  
1 music <- ____(file = "https://maryglover.github.io/bio331/lessons/post_exam1/review/billboard_short.csv")  
2  
3
```

Next, we want to just look at the file a bit. Run the following functions on the data frame, now named `music` to learn a bit about the data.

- `nrow`