

Data Science for Everyone – Accessing the R Environment

RStudio Cloud

There is no specific requirement to download RStudio Desktop onto your local machine.

For the purposes of this workshop, we will be accessing RStudio on its cloud platform. To this end, “if you make limited, occasional use of RStudio Cloud, or have your usage covered by your school/organization or an instructor, our free plan is all you need” (RStudio Cloud, 2022).

The free version of this platform allows:

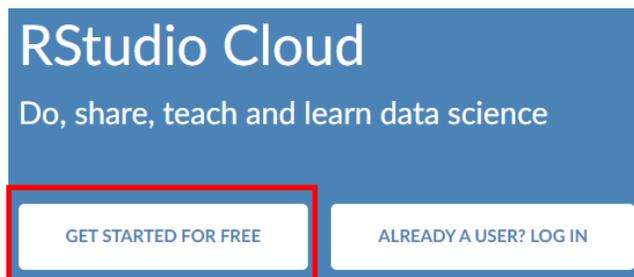
- Up to 50 projects total
- 1 shared space (5 members and 10 projects max)
- 25 project hours per month
- Up to 1 GB RAM per project
- Up to 1 CPU per project
- Up to 1 hour background execution time

<https://rstudio.cloud/plans/free>

RStudio Cloud can be accessed with your personal or organization’s email address or GitHub user account.

First-time Registration

1. Navigate your browser (preferably Google Chrome) to <https://rstudio.cloud/>.
2. Click on `Get Started for Free`.



3. Click the `Sign Up` button at the bottom of the page. Make sure that the `Plus slider button` remains toggled off.



4. Follow the prompts to sign up manually, sign up with Google, or to sign up with GitHub.
5. Once you have registered, you may login with your chosen registration method.



RStudio Cloud Basic Navigation

By default, you will be automatically navigated to  **Your Workspace** as you will see on the left-hand panel.

Creating a New Project

To access the RStudio cloud-based IDE, you will first need to set up a new project. When you login for the first time, you will notice that there are no projects in your workspace.

Your Workspace

Projects

Usage

About



Leon Shpaner

Your Projects

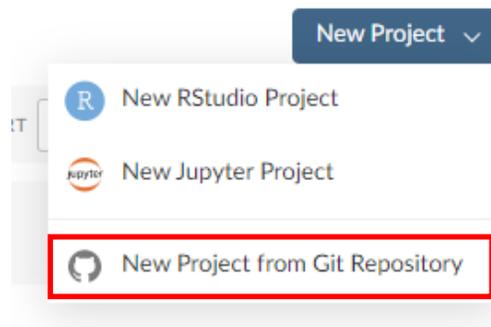
New Project ▾

Sort By name ▾


no projects

So, let's follow the following set of procedures.

1. Click on `New Project` at the top of the screen and select `New Project from Git Repository`.

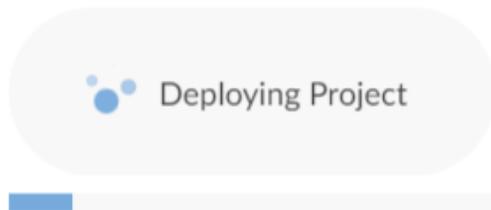


2. You will then be asked to specify the URL of the Git Repository. Enter the following URL and click `OK`.
https://github.com/lshpaner/data_science_for_everyone

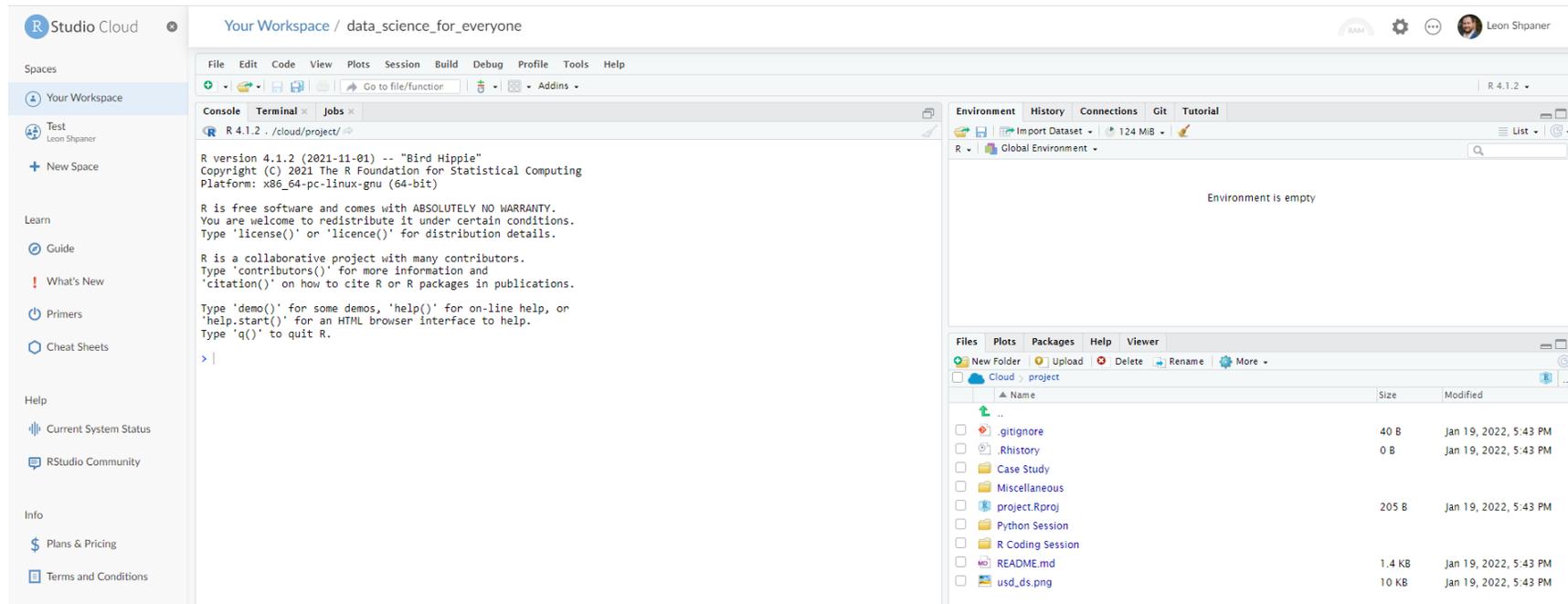
New Project from Git Repository ×

URL of your Git Repository i

3. Wait a few moments for the project to deploy.



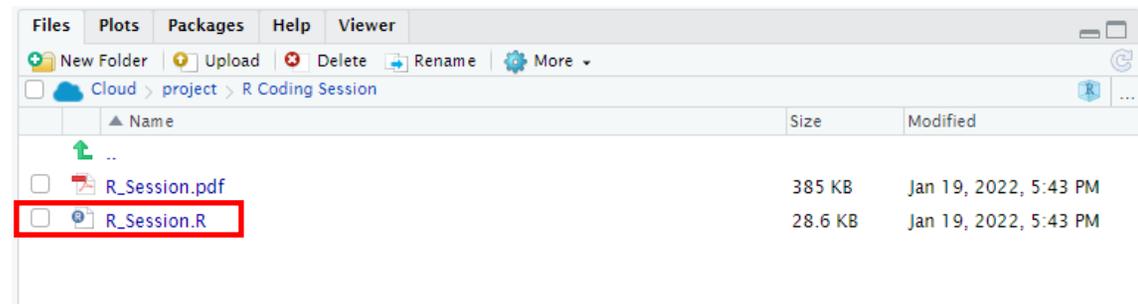
4. This will take you to Your Workspace / projects screen. Your screen should look like the following:



The screenshot shows the RStudio Cloud interface. The console displays the R version 4.1.2 (2021-11-01) -- "Bird Hippie" and its license information. The environment pane shows an empty environment. The file explorer pane shows a list of files and folders in the 'project' directory.

Name	Size	Modified
..		
.gitignore	40 B	Jan 19, 2022, 5:43 PM
.Rhistory	0 B	Jan 19, 2022, 5:43 PM
Case Study		
Miscellaneous		
project.Rproj	205 B	Jan 19, 2022, 5:43 PM
Python Session		
R Coding Session		
README.md	1.4 KB	Jan 19, 2022, 5:43 PM
usd_ds.png	10 KB	Jan 19, 2022, 5:43 PM

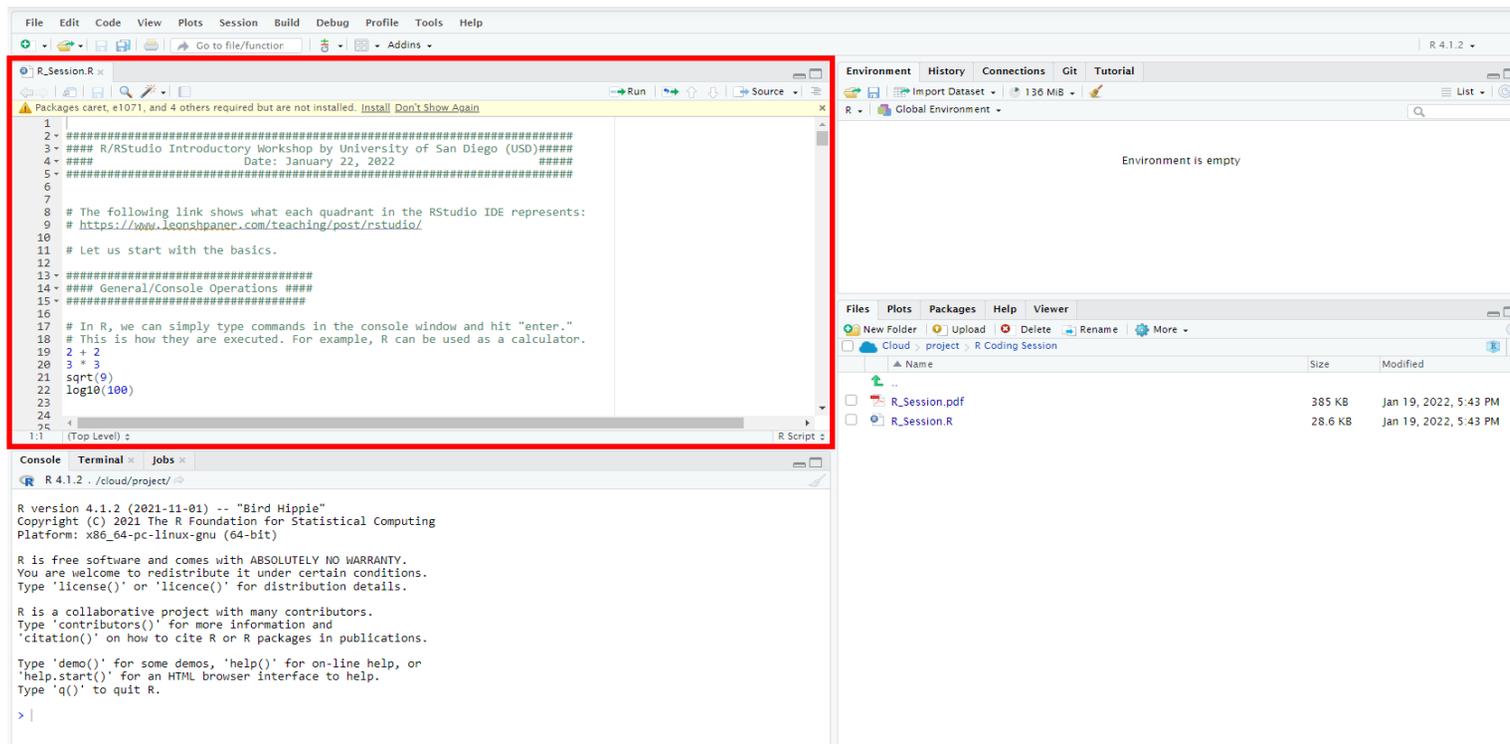
5. On the very right-hand quadrant of the screen, notice the list of files, and proceed to select and open the folder called **R Coding Session**, clicking on **R_Session.R** once inside the file directory.



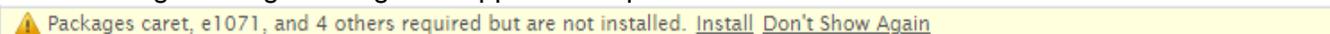
The close-up screenshot shows the file explorer pane with the 'R Coding Session' folder selected. The file 'R_Session.R' is highlighted with a red box.

Name	Size	Modified
..		
R_Session.pdf	385 KB	Jan 19, 2022, 5:43 PM
R_Session.R	28.6 KB	Jan 19, 2022, 5:43 PM

- This will open up your workspace into four quadrants, with the `R_Session.R` script on the second quadrant.



- The following warning message will appear on top of the screen:



You can ignore the following message by clicking on `Don't Show Again`, since you will be installing the libraries manually using the selected lines of code.

- If you choose to end your session by logging out of RStudio cloud, do not forget to save your work as you would normally do on any desktop software environment. This way, you will ensure to prevent any potential inadvertent loss of progress on the project.
- If you have chosen to log out, you may access your project upon logging back into RStudio Cloud. You will then proceed to click on `projects` on the now itemized workspace.