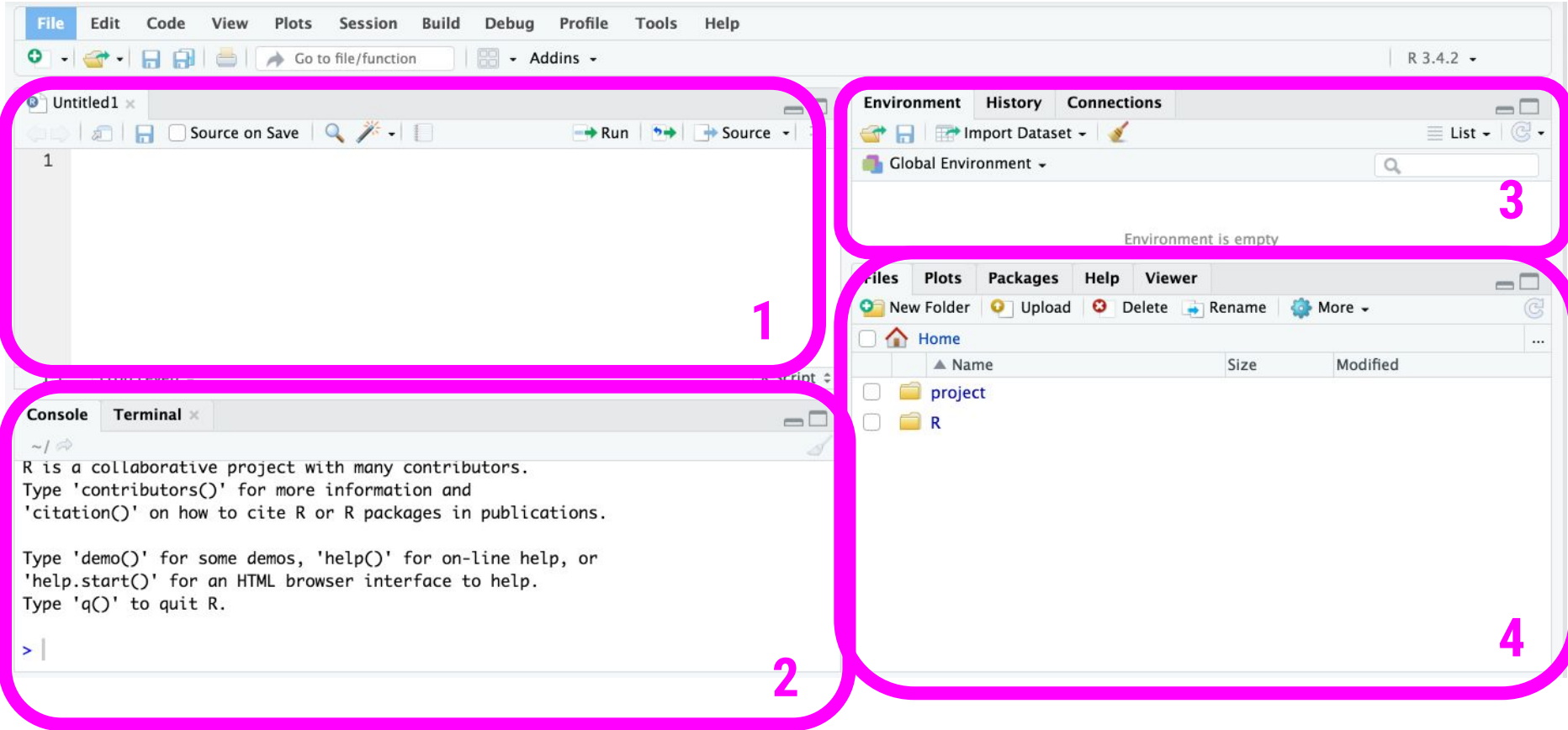


# RStudio Cloud

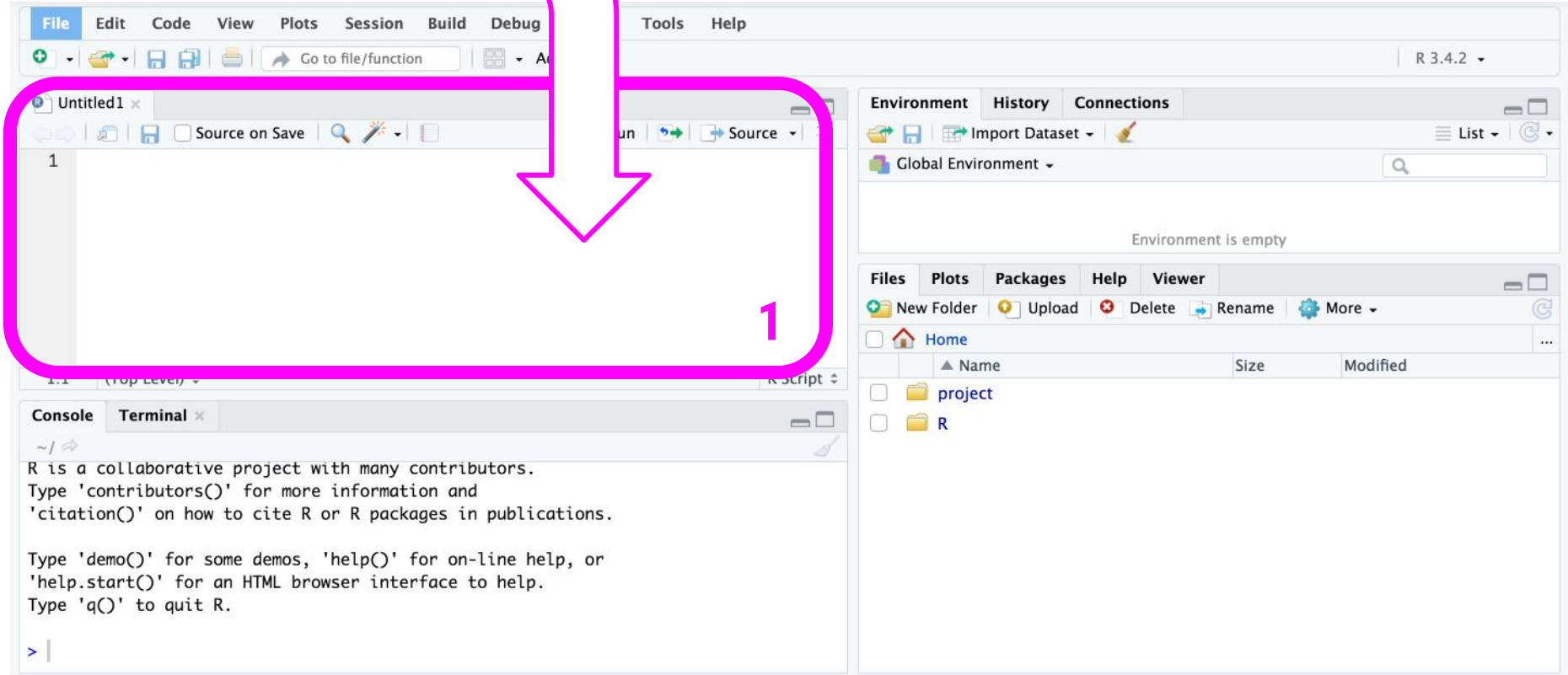


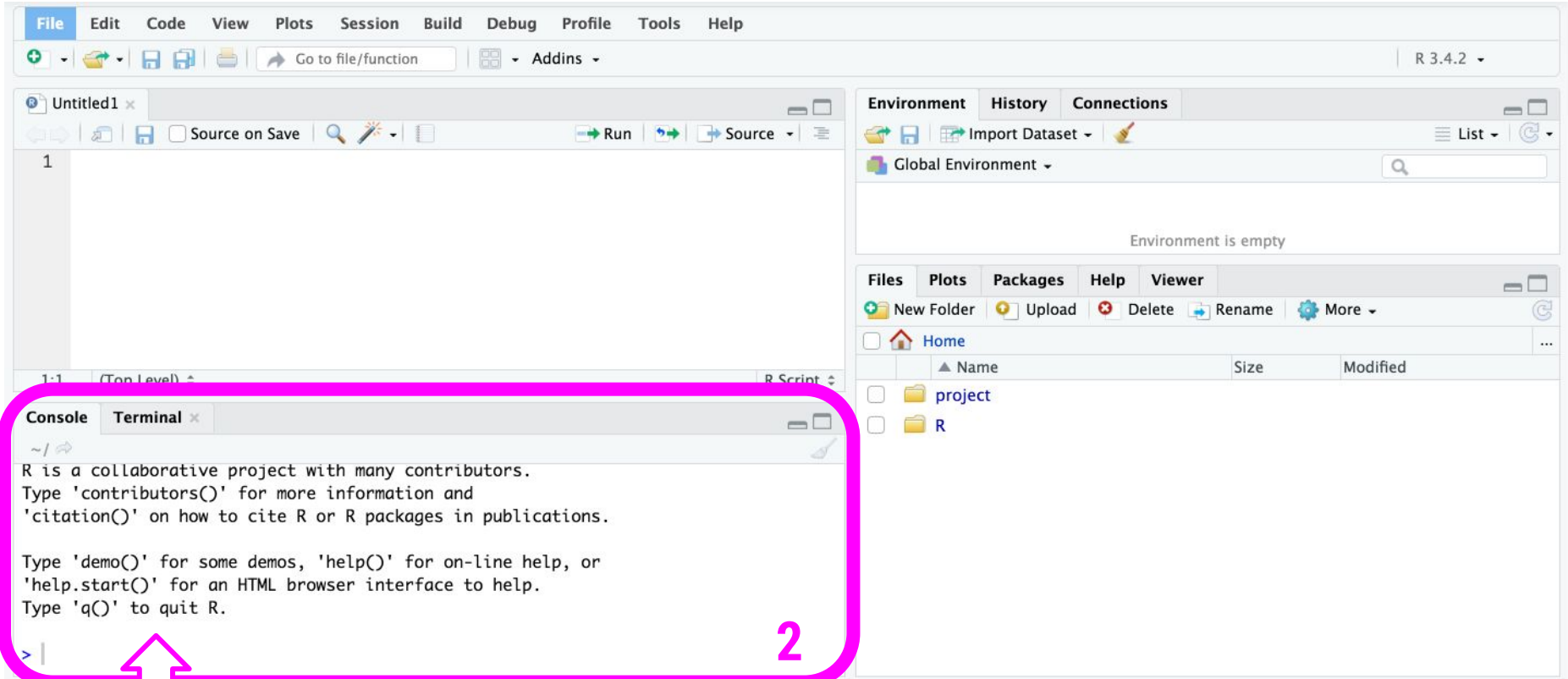
Introduction to Chromebook Data Science





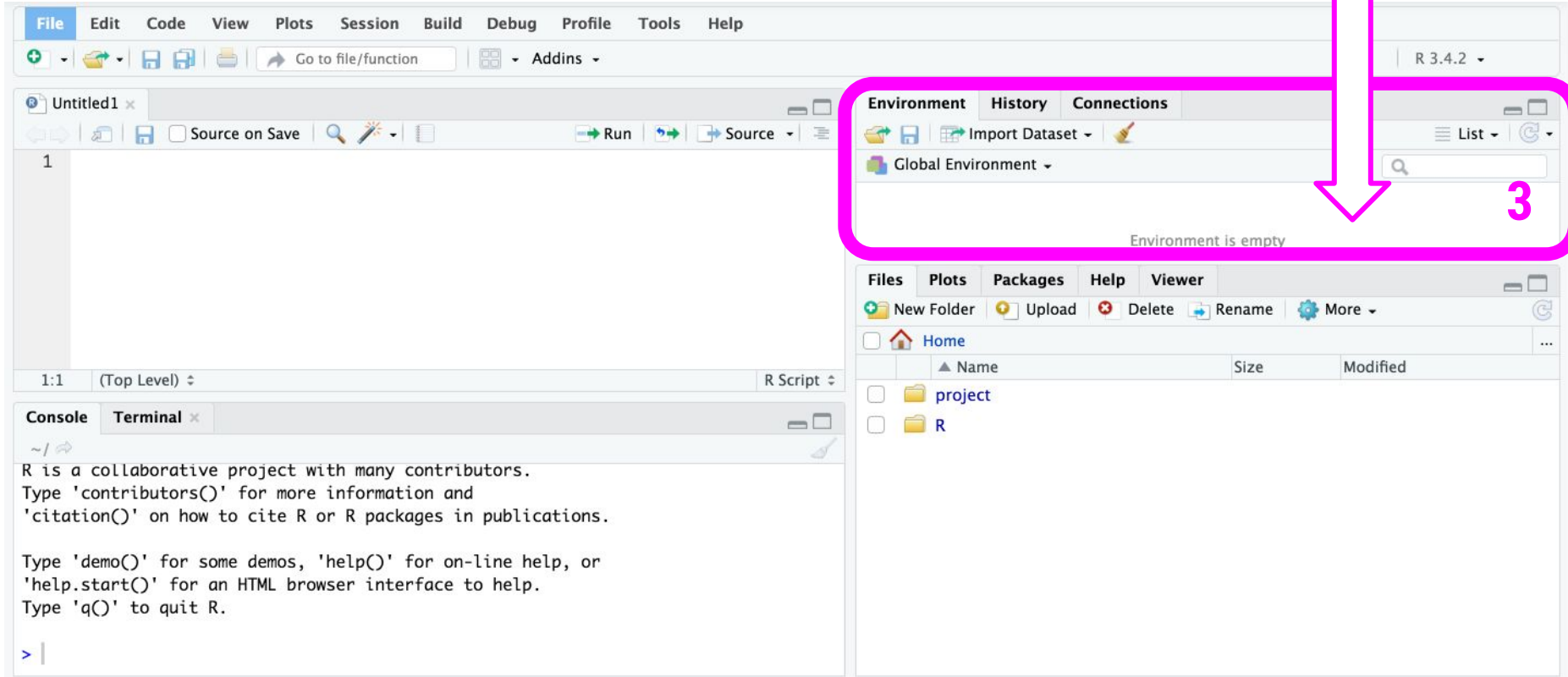
This opens up a new  
place where your  
code will be typed.

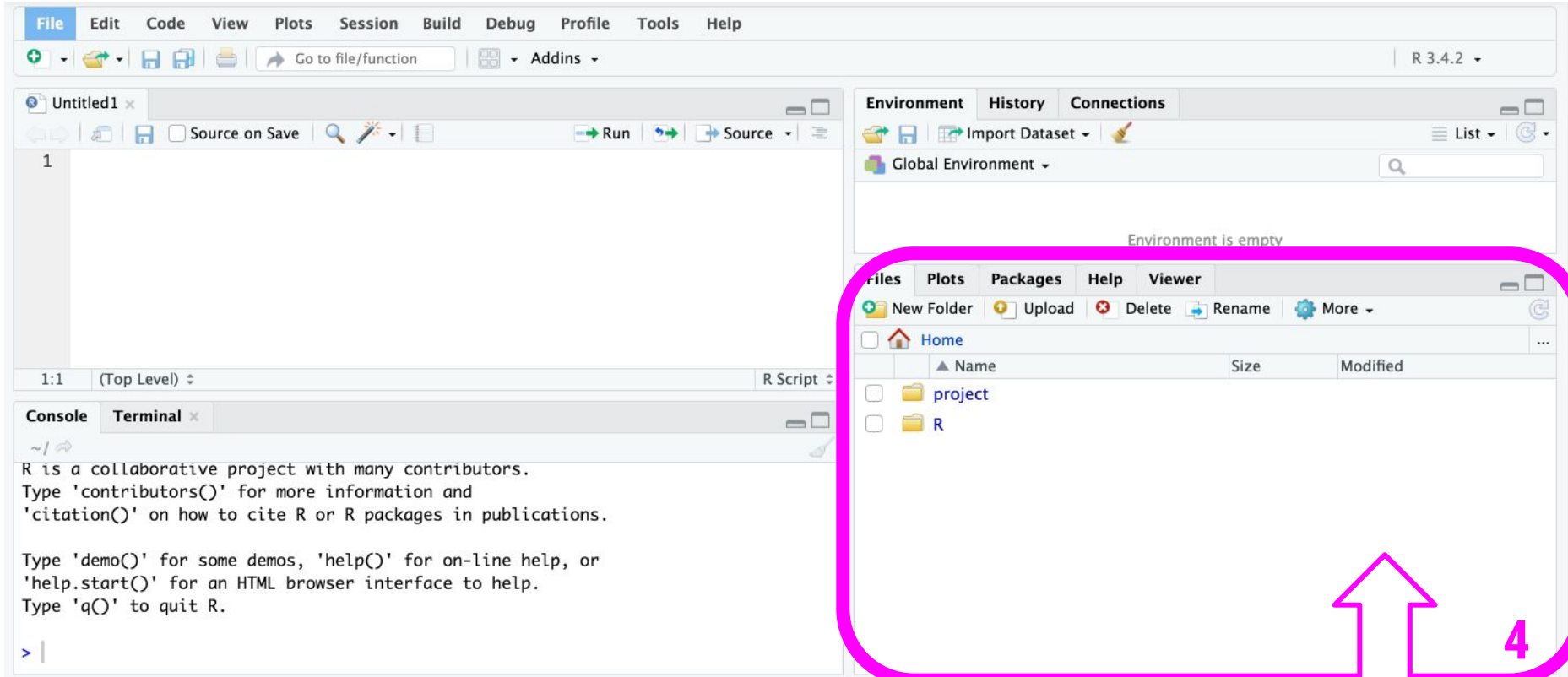




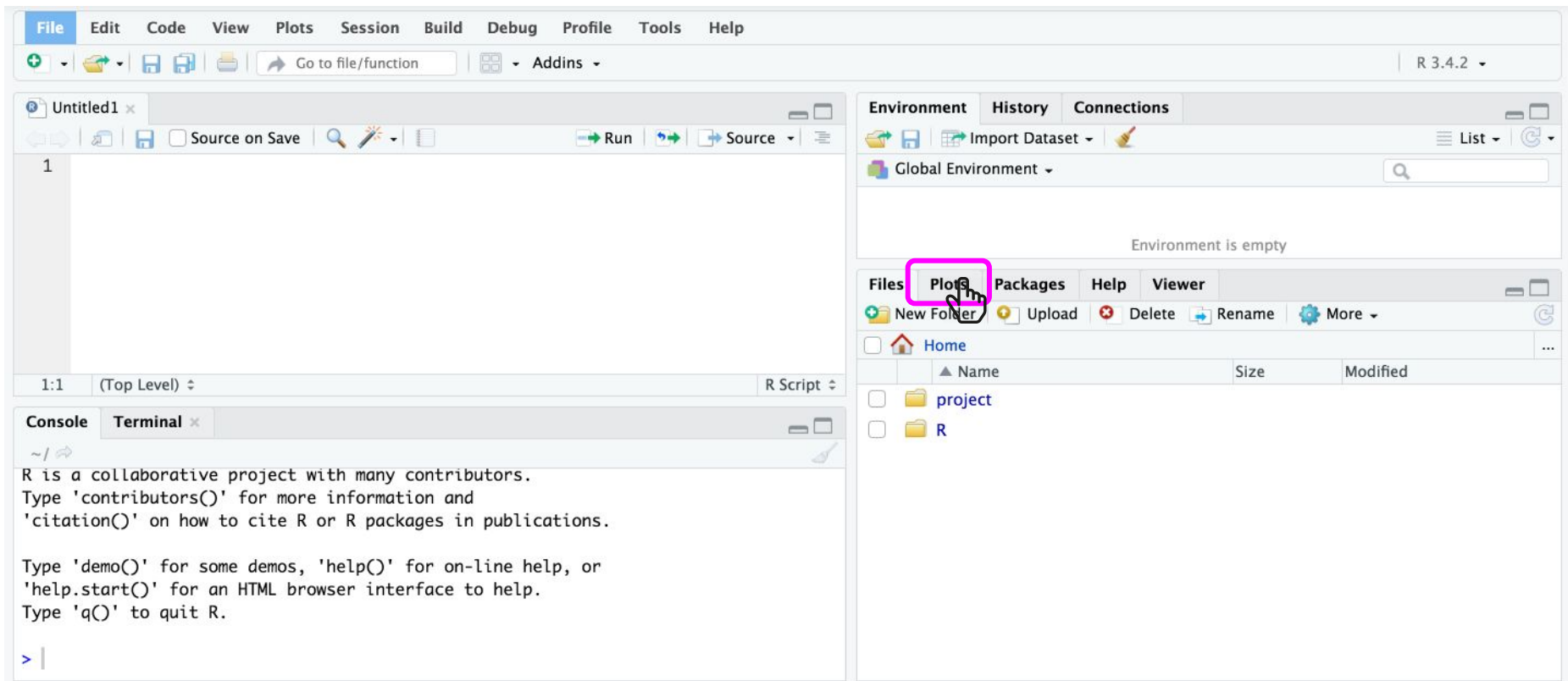
Down here is where your  
code is sent to run

The objects created by your analysis will be here. We'll talk about what that means later

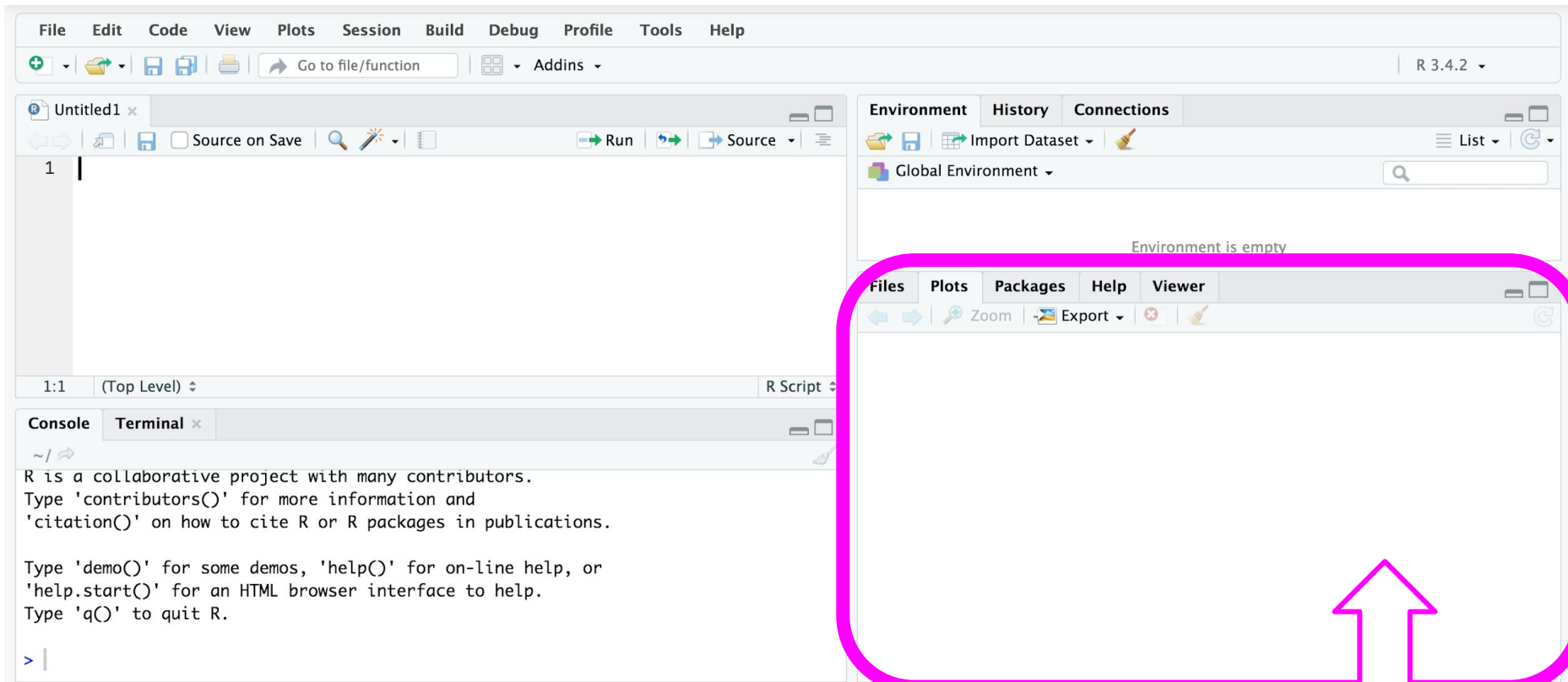




In here is where you will  
see all the files that are  
part of your project







Plots you generate will  
show up in here under the  
'Plots' tab!

## Project Question:

“How does the price of a bestselling book relate to how much the author is charging for that book?”



# All Projects

## Leanpub Project



Jeff Leek

Created Jan 5, 2018 3:28 PM

New Project

▼



Options

×

Search Projects

🔍

### List Projects

- ☒ All
- ☐ Shared with everyone
- ☐ Yours

### Sort Projects

- ☒ By name
- ☐ By date created

## Intro to Chromebook Data Science

Introduction to chromebook data science



## All Projects

### Leanpub Project



Jeff Leek

Created Jan 5, 2018 3:28 PM

[View 2 forks ...](#)

New Project



≡ Intro To Chromebook Data Science / Untitled Project ↩ *Click to name your project*

---

Title your project here:  
leanpub\_project\_lastname



≡ Intro To Chromebook Data Science / leanpub\_project\_doe

---

If your last name were Doe,  
it would look like this



FileEditCodeViewPlotsSessionBuildDebugProfileToolsHelp

Go to file/function

Addins

R 3.4.2

leanpub\_googleworksheets\_analysis.R

Source on Save

Run

Source

```
10
11 ## register your Google sheet
12 link = "PASTE_YOUR_GOOGLE_SHEET_LINK_HERE!"
13 check_link(link)
14
15 leanpub <- gs_url(link)
16
17 ## get data from your Google sheet
18 df <- leanpub %>%
19   gs_read()
20
21 ## run a few checks on the data
22 check_data(df)
23
24 ## plot relationships between cost and readers
25 qplot(readers,minimum,data=df)
4:49 (Top Level)
```

ConsoleTerminal

/cloud/project/

>

EnvironmentHistoryConnections

Import Dataset

Global Environment

Environment is empty

FilesPlotsPackagesHelpViewer

New FolderUploadDeleteRenameMore

cloudproject

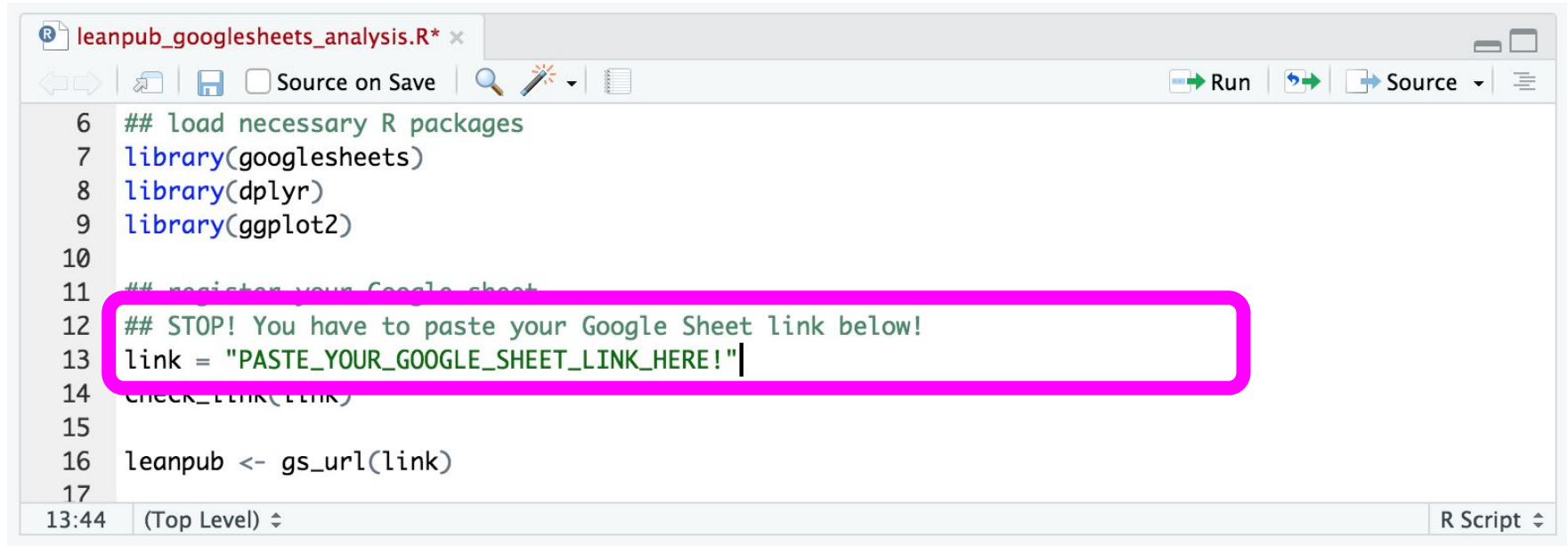
Name	Size	Modified
leanpub_googleworksheets_analysis.R	561 B	Apr 26, 2018, 11:14 AM
projectfiles		

The screenshot displays the RStudio interface with the following components:

- Menu Bar:** File, Edit, Code, View, Plots, Session, Build, Debug, Profile, Tools, Help.
- Toolbar:** Includes icons for saving, running, and other standard RStudio functions.
- Source Editor:** Contains the script `leanpub_googleworksheets_analysis.R`. The script is highlighted with a pink rounded rectangle. The code is as follows:

```
10  
11 ## register your Google sheet  
12 link = "PASTE_YOUR_GOOGLE_SHEET_LINK_HERE!"  
13 check_link(link)  
14  
15 leanpub <- gs_url(link)  
16  
17 ## get data from your Google sheet  
18 df <- leanpub %>%  
19   gs_read()  
20  
21 ## run a few checks on the data  
22 check_data(df)  
23  
24 ## plot relationships between cost and readers  
25 qplot(readers,minimum,data=df)  
26  
27 (Top Level) >
```
- Environment Panel:** Shows the Global Environment, which is currently empty.
- Files Panel:** Displays the file structure of the project, showing a folder named `project` containing the script `leanpub_googleworksheets_analysis.R` and a folder named `projectfiles`.
- Console/Terminal:** Shows the current working directory as `/cloud/project/`.





```
leanpub_googleworksheets_analysis.R* x
Source on Save
Run Source
6 ## load necessary R packages
7 library(googleworksheets)
8 library(dplyr)
9 library(ggplot2)
10
11 ## register your Google sheet
12 ## STOP! You have to paste your Google Sheet link below!
13 link = "PASTE_YOUR_GOOGLE_SHEET_LINK_HERE!"
14 check_link(link)
15
16 leanpub <- gs_url(link)
17
13:44 (Top Level) R Script
```



Secure

<https://docs.google.com/spreadsheets/d/19s1jHvx3kh9TYpSSTUGENrix7viubXtO6BdCanMHa9w/edit#gid=0>



leanpub\_data



File Edit View Insert Format Data Tools Add-ons Help All changes saved in Drive

Share with others



Link copied to clipboard.

Get shareable link



Link sharing on [Learn more](#)

Anyone with the link **can view** ▼

Copy link

<https://docs.google.com/spreadsheets/d/19s1jHvx3kh9TYpSSTUGENrix7viubXtO6BdCanMHa9w/edit#gid=0>

People

Enter names or email addresses...



Done

<https://docs.google.com/spreadsheets/d/19s1jHvx3kh9TYpSSTUGENrix7viubXtO6BdCanMHa9w/edit?usp=sharing>



```
leanpub_googlesheets_analysis.R* x
Source on Save
Run Source
6 ## load necessary R packages
7 library(googlesheets)
8 library(dplyr)
9 library(ggplot2)
10
11 ## Register your Google sheet
12 ## STOP! You have to paste your Google Sheet link below!
13 link = "https://docs.google.com/spreadsheets/d/19s1jHvx3kh9TYpSSTUGENrix7viubXt06BdCanMHa9w/"
14 check_link(link)
15
16 leanpub <- gs_url(link)
17
13:92 (Top Level) R Script
```

leanpub\_googleworksheets\_analysis.R x

Source on Save

Run

Source

```
1 ## get function needed to check data
2 source('/cloud/project/projectfiles/check_data.R')
3 ## install necessary packages
4 source('/cloud/project/projectfiles/packages.R')
5
6 ## load necessary R packages
7 library(googleworksheets)
8 library(dplyr)
9 library(ggplot2)
10
11 ## register your Google sheet
12 ## STOP! You have to paste your Google Sheet link below!
```

26:31 (Top Level) ↕ R Script ↕

Console Terminal x

/cloud/project/ ↗

> |

Environment History Connections

Import Dataset ↗

List ↕

Global Environment ▾

Environment is empty

Files Plots Packages Help Viewer

New Folder Upload Delete Rename More ↕

/ > cloud > project

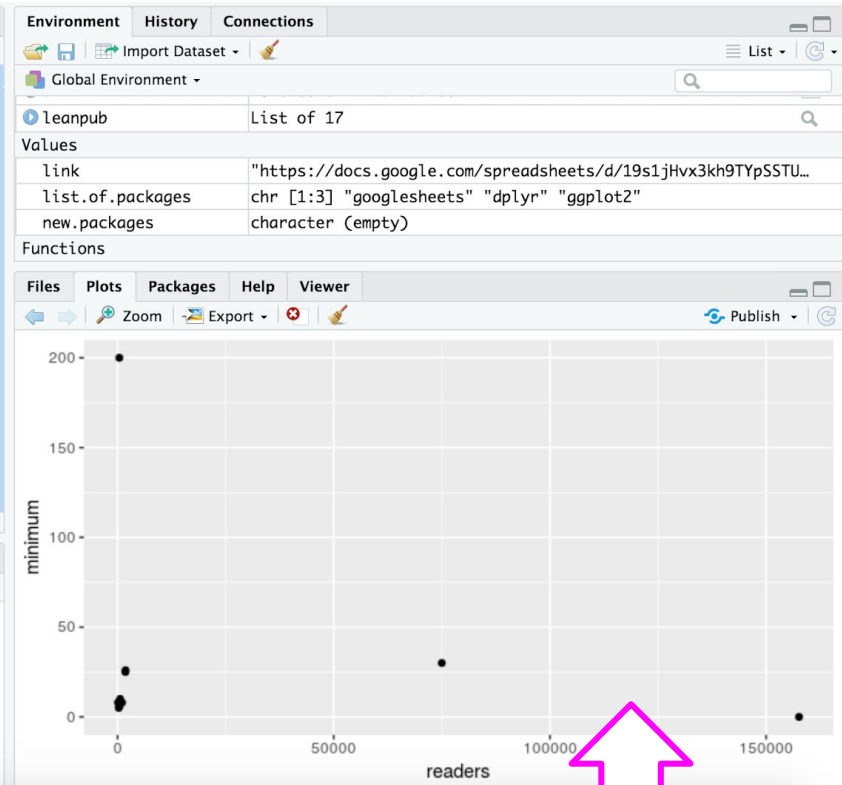
	Name	Size	Modified
↗	..		
<input type="checkbox"/>	leanpub_googleworksheets_analysis.R	618 B	Apr 26, 2018, 11:24 AM
<input type="checkbox"/>	projectfiles		



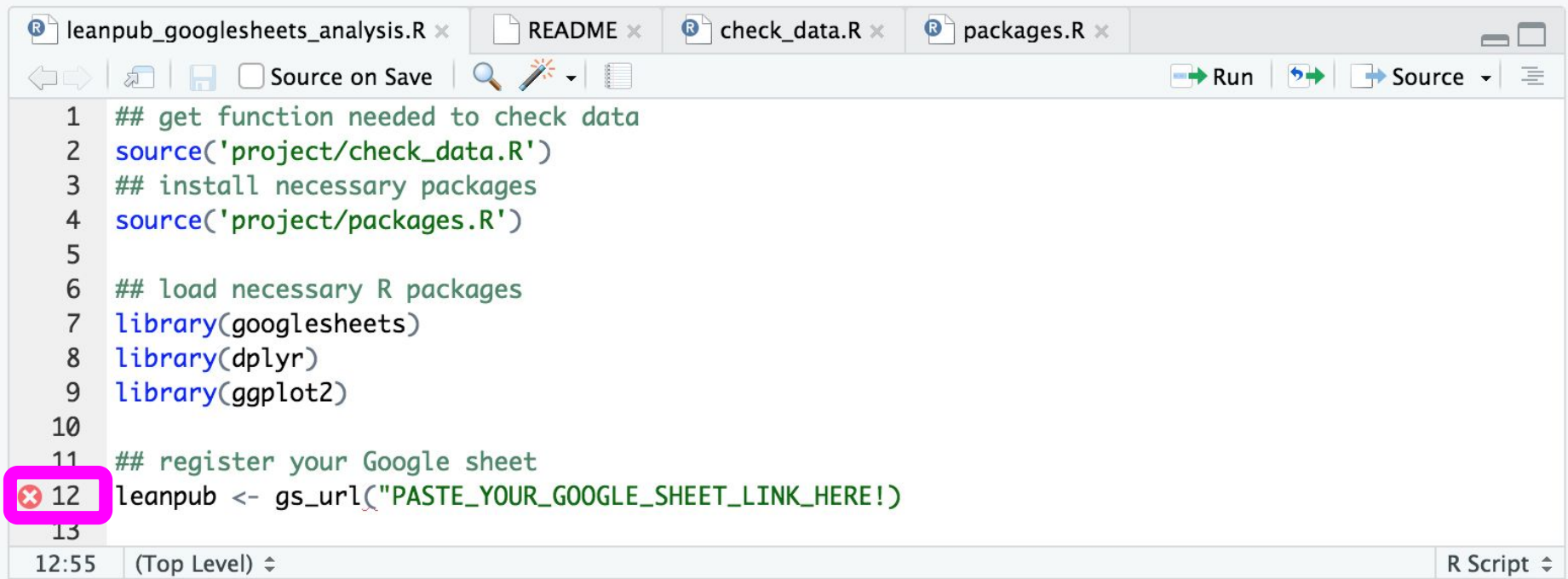
```
leanpub_googleheets_analysis.R* x
1 ## get function needed to check data
2 source('/cloud/project/projectfiles/check_data.R')
3 ## install necessary packages
4 source('/cloud/project/projectfiles/packages.R')
5
6 ## load necessary R packages
7 library(googleheets)
8 library(dplyr)
9 library(ggplot2)
10
11 ## register your Google sheet
12 ## STOP! You have to paste your Google Sheet link below!
13 link = "https://docs.google.com/spreadsheets/d/19s1jHvx3kh9TYpSSTUGENrix7viubXt06BdCanMHa9w"
14 check_link(link)
15
16 leanpub <- gs_url(link)
17
18 ## get data from your Google sheet
19 df <- leanpub %>%
20   gs_read()
21
22 26:31 (Top Level) R Script
```

Console Terminal x

```
/cloud/project/
>
> ## run a few checks on the data
> check_data(df)
[1] "Your spreadsheet has passed all checks. You're ready to plot!"
>
> ## plot relationships between cost and readers
> qplot(readers,minimum,data=df)
>
```



Plot should show up over here once you run the code



The image shows a screenshot of the RStudio IDE. The top pane displays several open files: `leanpub_googleheets_analysis.R`, `README`, `check_data.R`, and `packages.R`. The bottom pane shows the source editor for `leanpub_googleheets_analysis.R`. The script contains the following code:

```
1 ## get function needed to check data
2 source('project/check_data.R')
3 ## install necessary packages
4 source('project/packages.R')
5
6 ## load necessary R packages
7 library(googleheets)
8 library(dplyr)
9 library(ggplot2)
10
11 ## register your Google sheet
12 leanpub <- gs_url("PASTE_YOUR_GOOGLE_SHEET_LINK_HERE!")
13
```

Line 12 is highlighted with a pink box, and a red 'X' icon is visible in the left margin next to the line number, indicating a syntax error. The status bar at the bottom shows the time as 12:55 and the current context as (Top Level). The language mode is set to R Script.

File Edit Code View Plots Session Build Debug Profile Tools Help

Go to file/function Addins R 3.4.2

leanpub\_google sheets\_analysis.R

```
10
11 ## register your Google sheet
12 link = "PASTE_YOUR_GOOGLE_SHEET_LINK_HERE!"
13 check_link(link)
14
15 leanpub <- gs_url(link)
16
17 ## get data from your Google sheet
18 df <- leanpub %>%
19   gs_read()
20
21 ## run a few checks on the data
22 check_data(df)
23
24 ## plot relationships between cost and readers
25 qplot(readers, minimum, data=df)
```

4:49 (Top Level) R Script

Environment History Connections

Global Environment

Environment is empty

Files Plots Packages Help Viewer

New Folder Upload Delete Rename More

cloud > project

	Name	Size	Modified
	..		
	leanpub_google sheets_analysis.R	561 B	Apr 26, 2018, 11:14 AM
	projectfiles		

Console Terminal

/cloud/project/

>

If plot doesn't show up to  
the right, errors will be  
down here.

