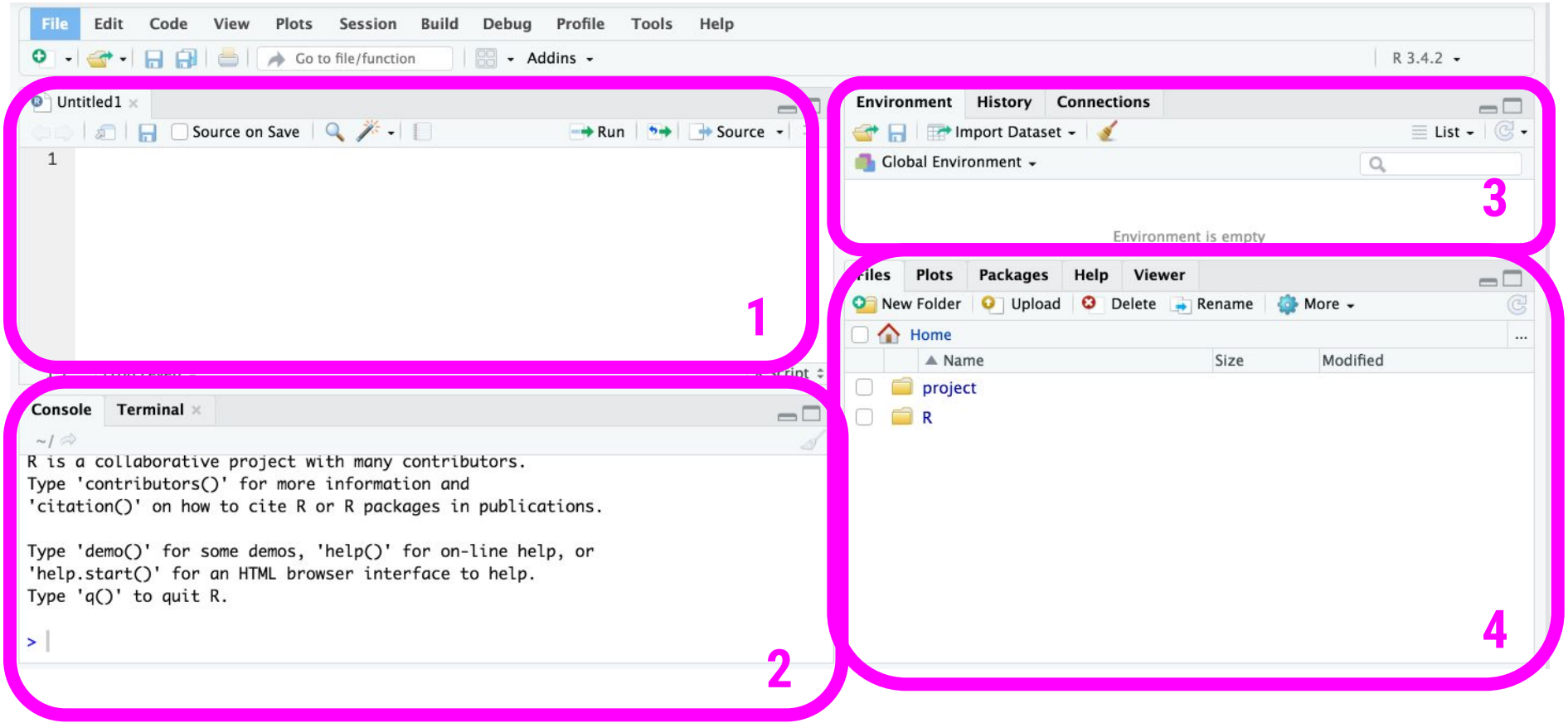
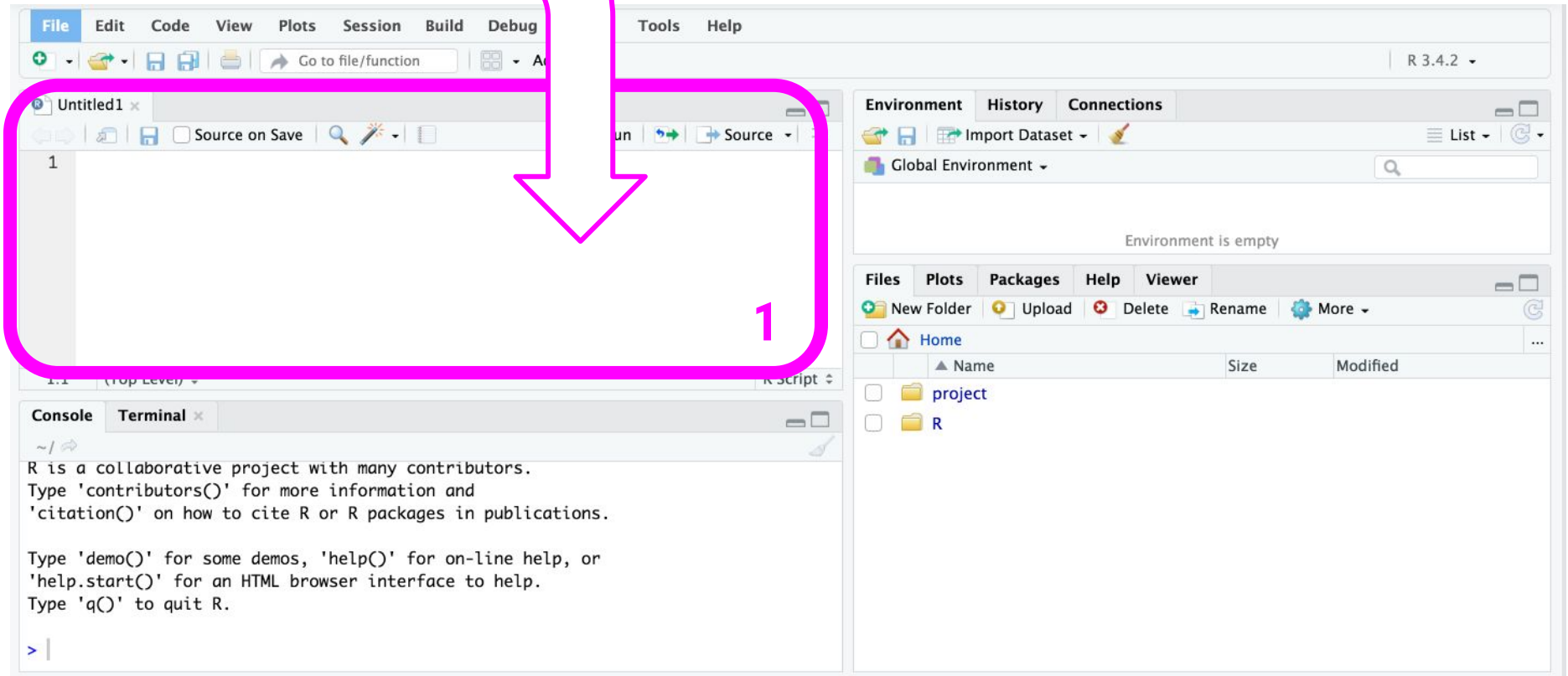
# RStudio Cloud

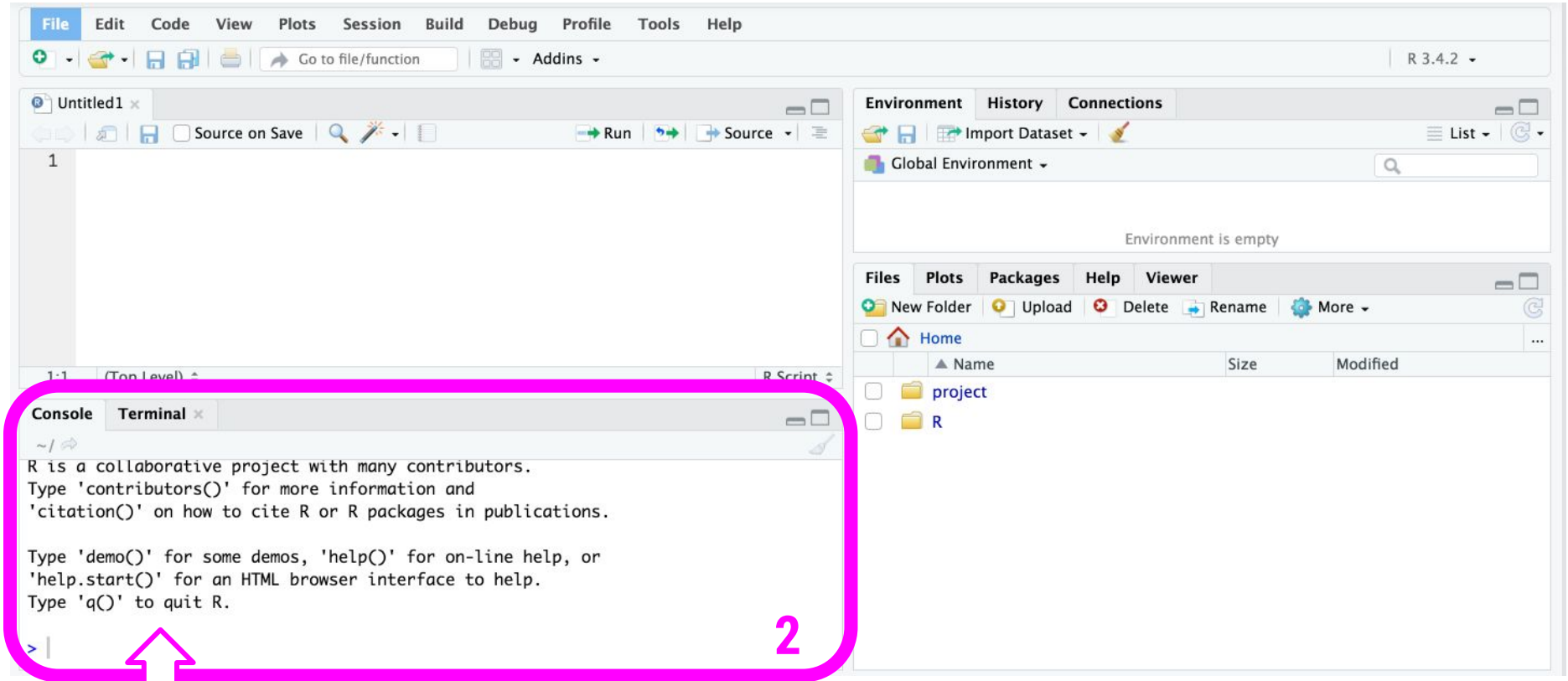
Introduction to Chromebook Data Science

R
Studio Cloud


File Edit Code View Plots Session Build Debug Profile Tools Help
Go to file/function
Addins
R 3.4.2
Untitled1
Source on Save
Run
Source
1
1
Environment History Connections
Import Dataset
List
Global Environment
Environment is empty
3
Files Plots Packages Help Viewer
New Folder
Upload
Delete
Rename
More
Home
Name
Size
Modified
project
R
4
Console Terminal
R is a collaborative project with many contributors.
Type 'contributors()' for more information and
'citation()' on how to cite R or R packages in publications.
Type 'demo()' for some demos, 'help()' for on-line help, or
'help.start()' for an HTML browser interface to help.
Type 'q()' to quit R.
>
2

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




File Edit Code View Plots Session Build Debug Profile Tools Help
Go to file/function
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R 3.4.2
Untitled1
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Environment History Connections
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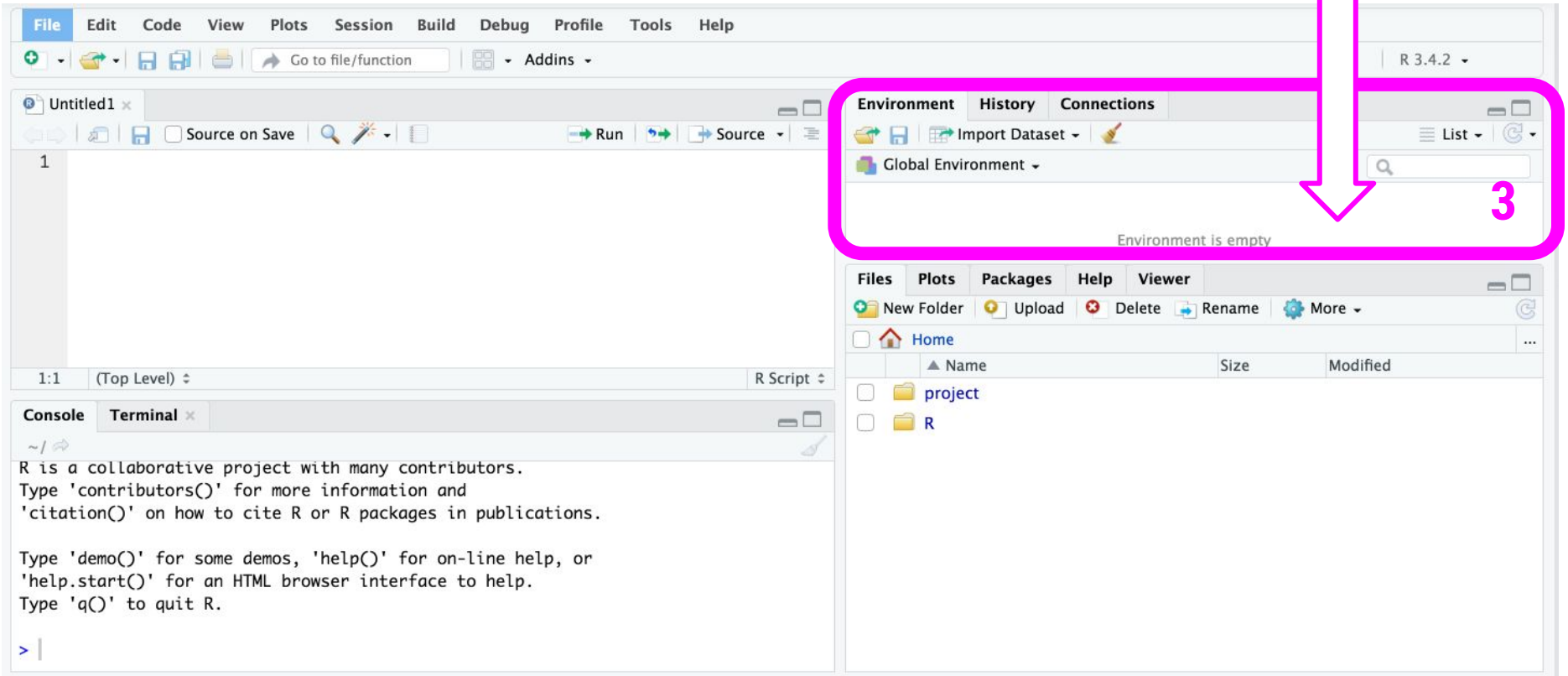
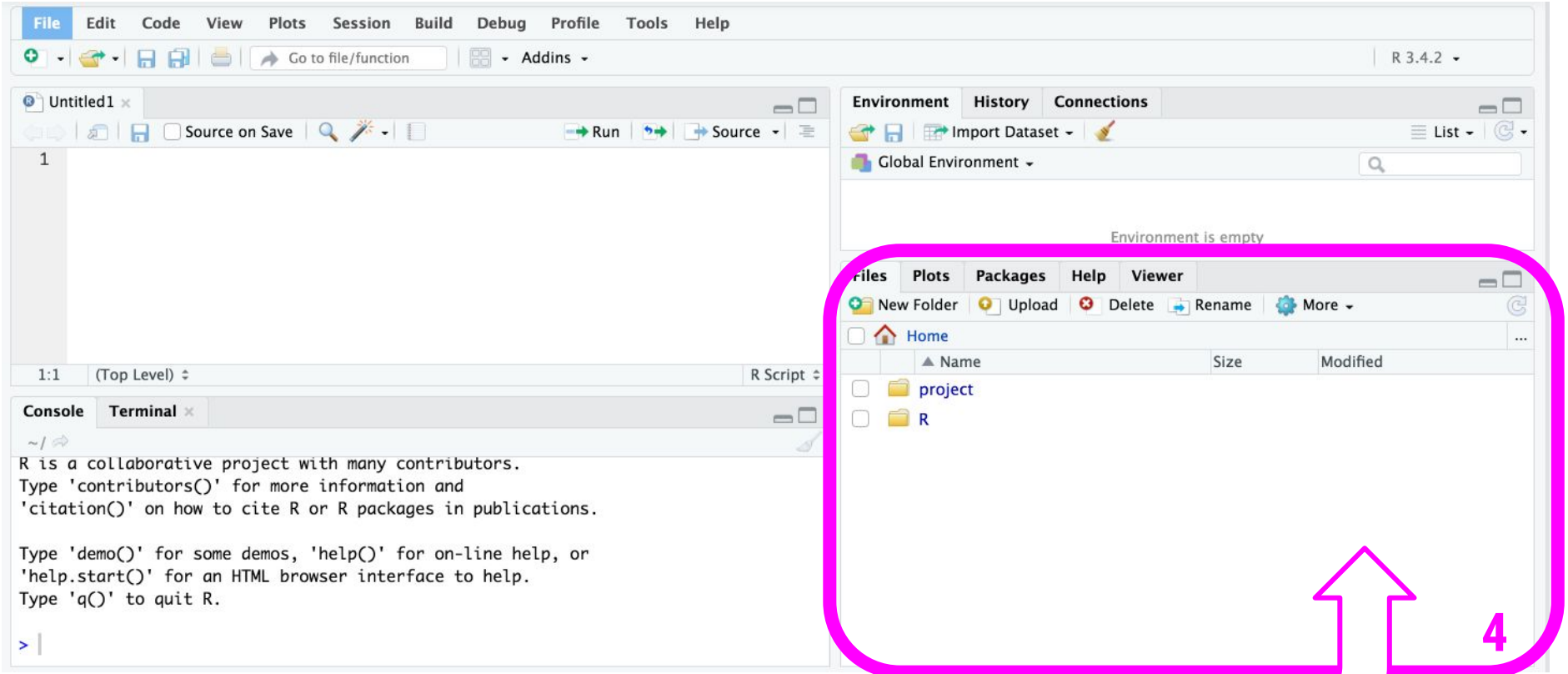
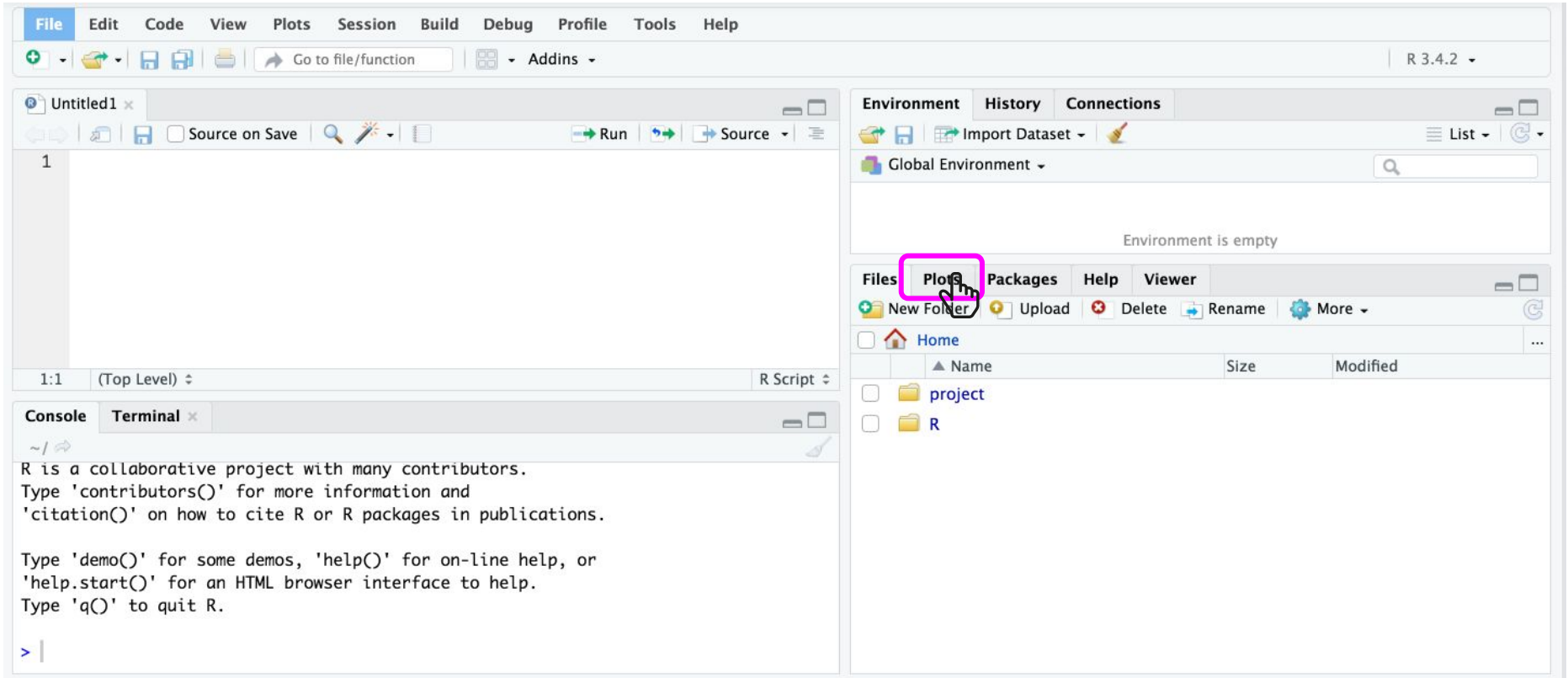
'help.start()' for an HTML browser interface to help.
Type 'q()' to quit R.
>
2
Down here is where your
code is sent to run

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


File Edit Code View Plots Session Build Debug Profile Tools Help
Go to file/function
Addins
R 3.4.2
Untitled1
Source on Save
Run
Source
1
1:1
(Top Level)
R Script
Console
Terminal
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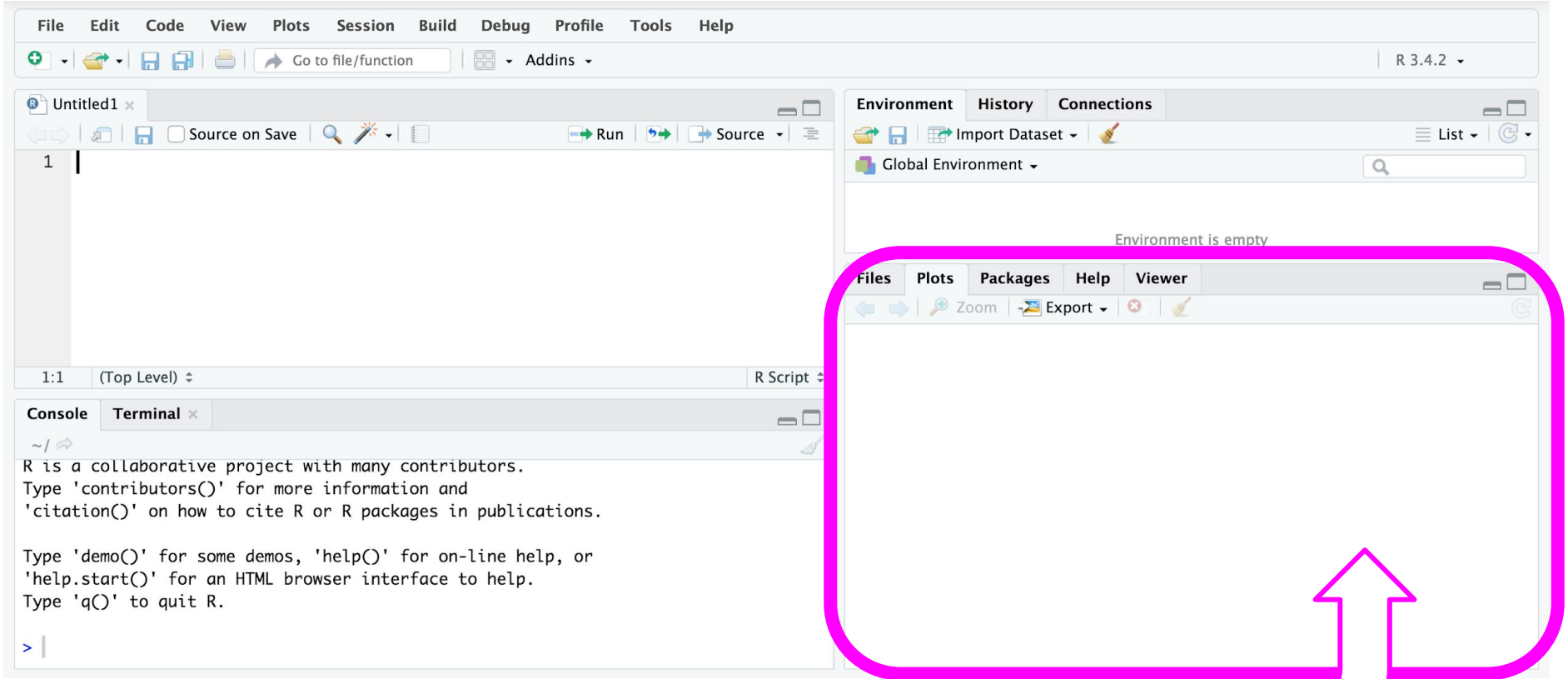
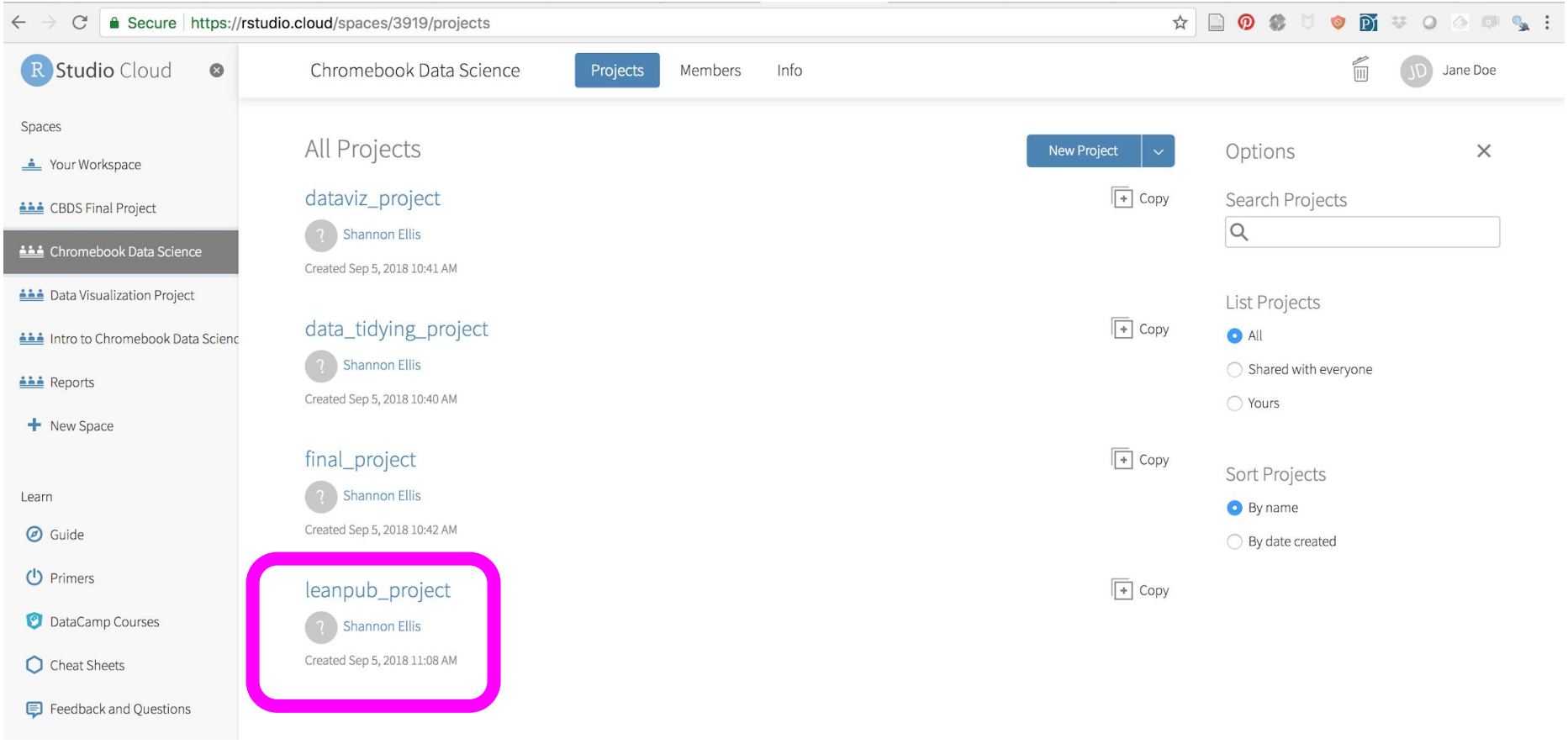
Type 'q()' to quit R.
>
Environment
History
Connections
Import Dataset
List
Global Environment
Environment is empty
Files
Plots
Packages
Help
Viewer
New Folder
Upload
Delete
Rename
More
Home
Name
Size
Modified
project
R

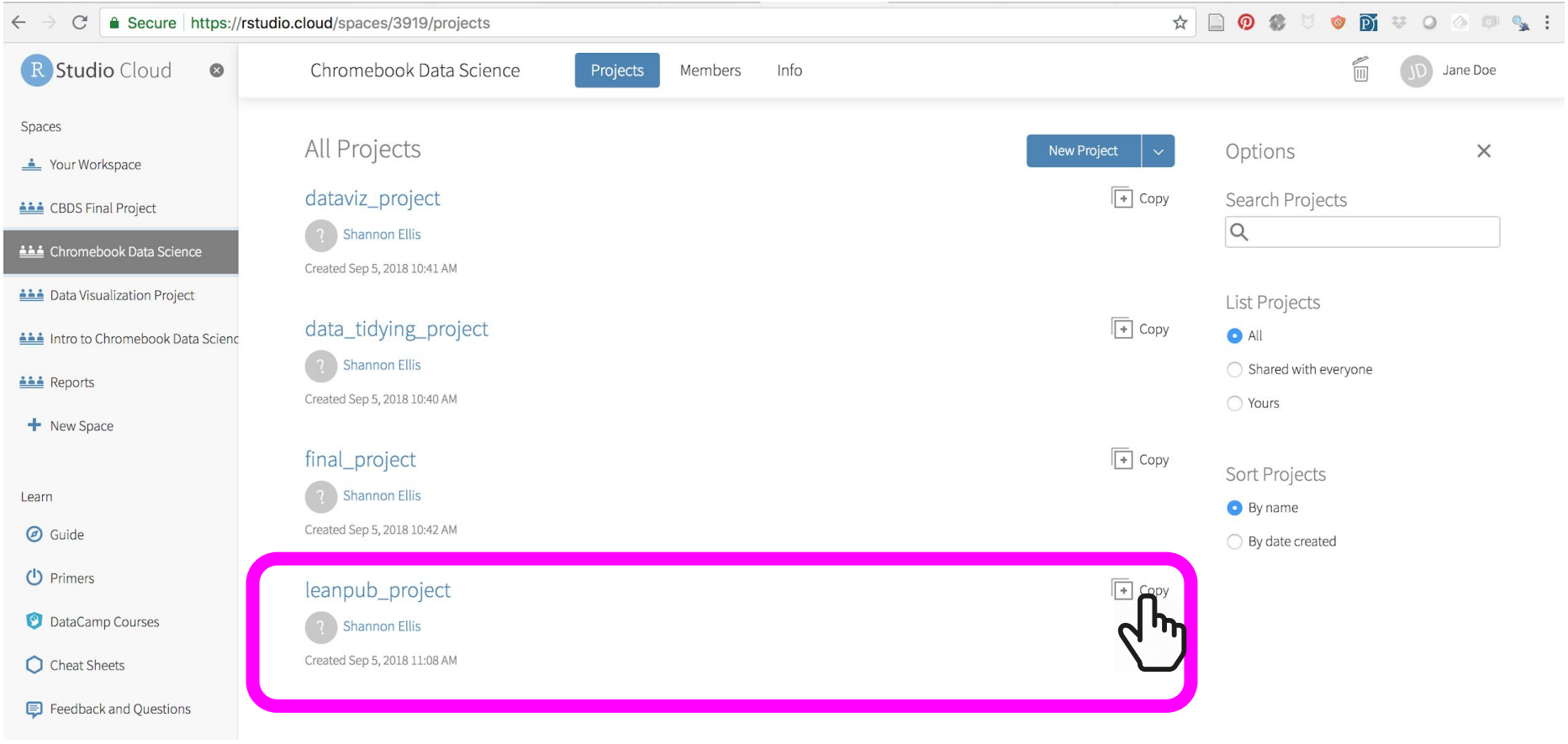


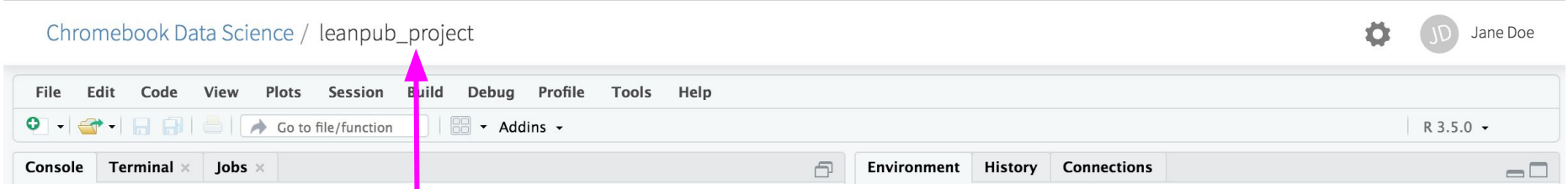

Plots you generate will show up in here under the 'Plots' tab!

Project Question:

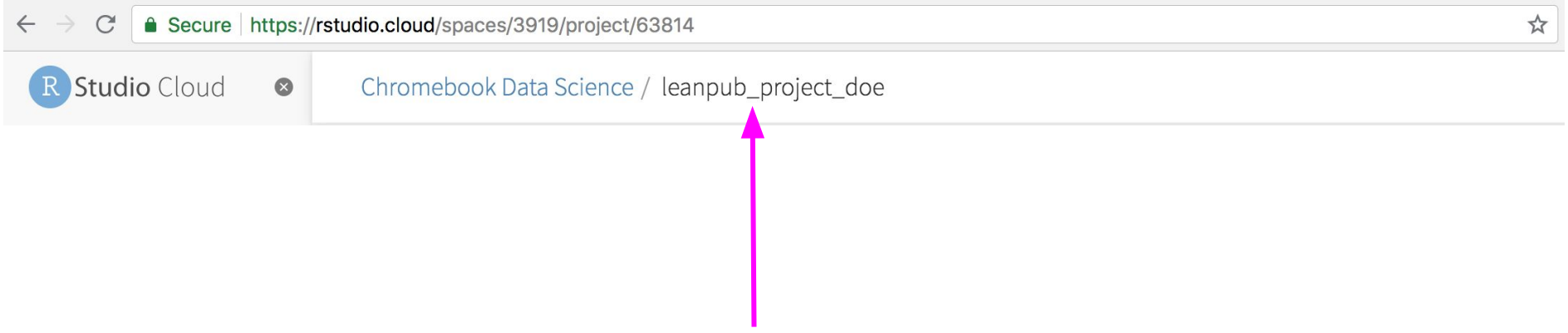
“How does the price of a bestselling book relate to how much the author is charging for that book?”

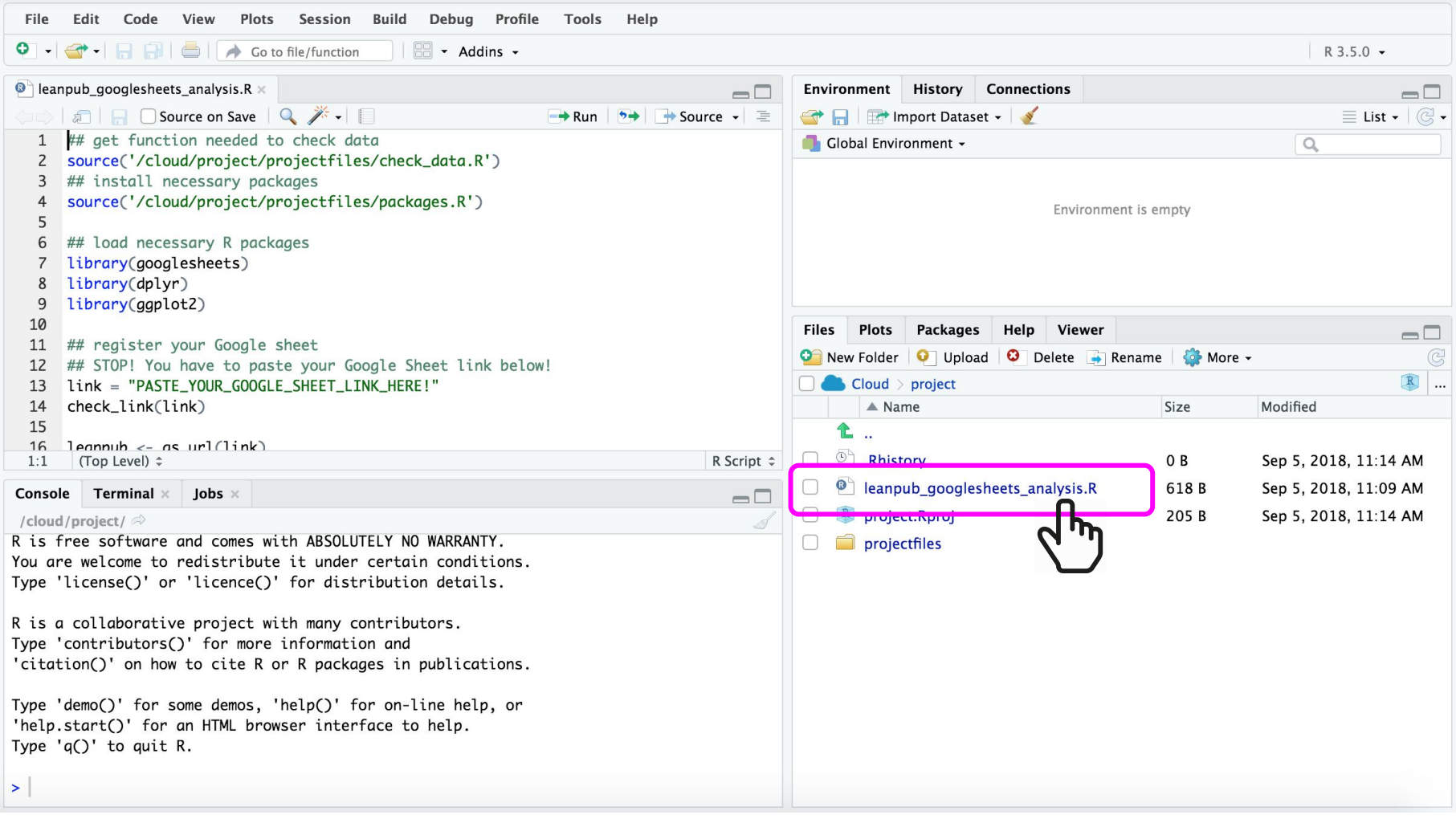

Secure https://rstudio.cloud/spaces/3919/projects
Studio Cloud
Spaces
Your Workspace
CBDS Final Project
Chromebook Data Science
Data Visualization Project
Intro to Chromebook Data Scienc
Reports
New Space
Learn
Guide
Primers
DataCamp Courses
Cheat Sheets
Feedback and Questions
Chromebook Data Science
Projects
Members
Info
Jane Doe
All Projects
New Project
dataviz_project
Shannon Ellis
Created Sep 5, 2018 10:41 AM
Copy
data_tidying_project
Shannon Ellis
Created Sep 5, 2018 10:40 AM
Copy
final_project
Shannon Ellis
Created Sep 5, 2018 10:42 AM
Copy
leanpub_project
Shannon Ellis
Created Sep 5, 2018 11:08 AM
Copy
Options
Search Projects
List Projects
All
Shared with everyone
Yours
Sort Projects
By name
By date created

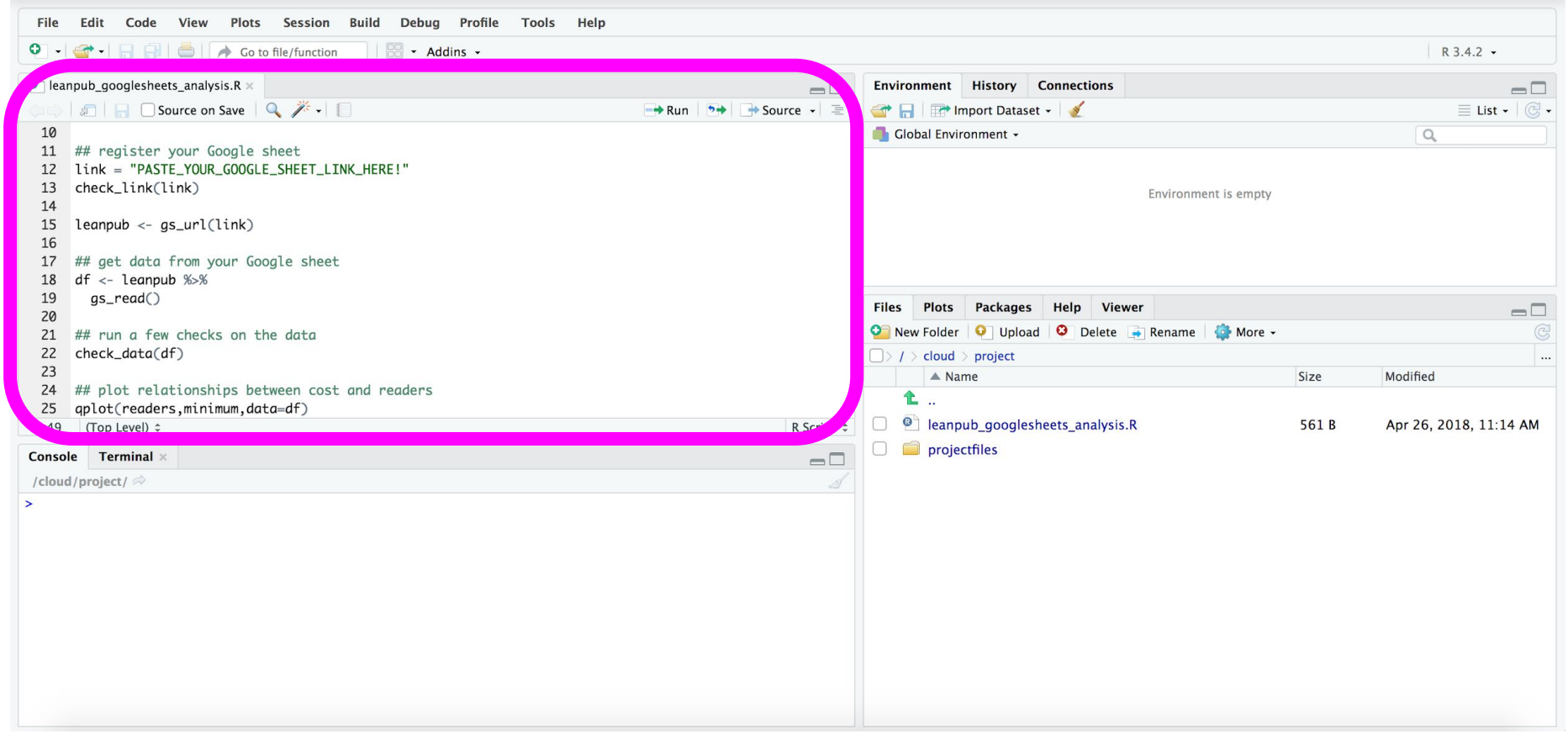

Secure https://rstudio.cloud/spaces/3919/projects
Studio Cloud
Spaces
Your Workspace
CBDS Final Project
Chromebook Data Science
Data Visualization Project
Intro to Chromebook Data Scienc
Reports
New Space
Learn
Guide
Primers
DataCamp Courses
Cheat Sheets
Feedback and Questions
Chromebook Data Science
Projects
Members
Info
Jane Doe
All Projects
New Project
dataviz_project
Shannon Ellis
Created Sep 5, 2018 10:41 AM
Copy
data_tidying_project
Shannon Ellis
Created Sep 5, 2018 10:40 AM
Copy
final_project
Shannon Ellis
Created Sep 5, 2018 10:42 AM
Copy
leanpub_project
Shannon Ellis
Created Sep 5, 2018 11:08 AM
Copy
Options
Search Projects
List Projects
All
Shared with everyone
Yours
Sort Projects
By name
By date created




Title your project here:
leanpub_project_lastname


Secure
https://rstudio.cloud/spaces/3919/project/63814
Studio Cloud
Chromebook Data Science / leanpub_project_doe
If your last name were Doe,
it would look like this


File Edit Code View Plots Session Build Debug Profile Tools Help
Go to file/function
Addins
R 3.5.0
leanpub_googlesheets_analysis.R
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(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 = "PASTE_YOUR_GOOGLE_SHEET_LINK_HERE!"
14 check_link(link)
15
16 leanpub <- gs_url(link)
1:1 (Top Level) R Script
Console Terminal Jobs
/cloud/project/
R is free software and comes with ABSOLUTELY NO WARRANTY.
You are welcome to redistribute it under certain conditions.
Type 'license()' or 'licence()' for distribution details.
R is a collaborative project with many contributors.
Type 'contributors()' for more information and
'citation()' on how to cite R or R packages in publications.
Type 'demo()' for some demos, 'help()' for on-line help, or
'help.start()' for an HTML browser interface to help.
Type 'q()' to quit R.
>
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
.. 0 B Sep 5, 2018, 11:14 AM
Rhistory 618 B Sep 5, 2018, 11:09 AM
leanpub_googlesheets_analysis.R 205 B Sep 5, 2018, 11:14 AM
project.Rproj
projectfiles


File Edit Code View Plots Session Build Debug Profile Tools Help
Go to file/function
Addins
R 3.4.2
leanpub_googlesheets_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)
(Top Level)
Console
Terminal
/cloud/project/
>
Environment
History
Connections
Import Dataset
List
Global Environment
Environment is empty
Files
Plots
Packages
Help
Viewer
New Folder
Upload
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Name
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Modified
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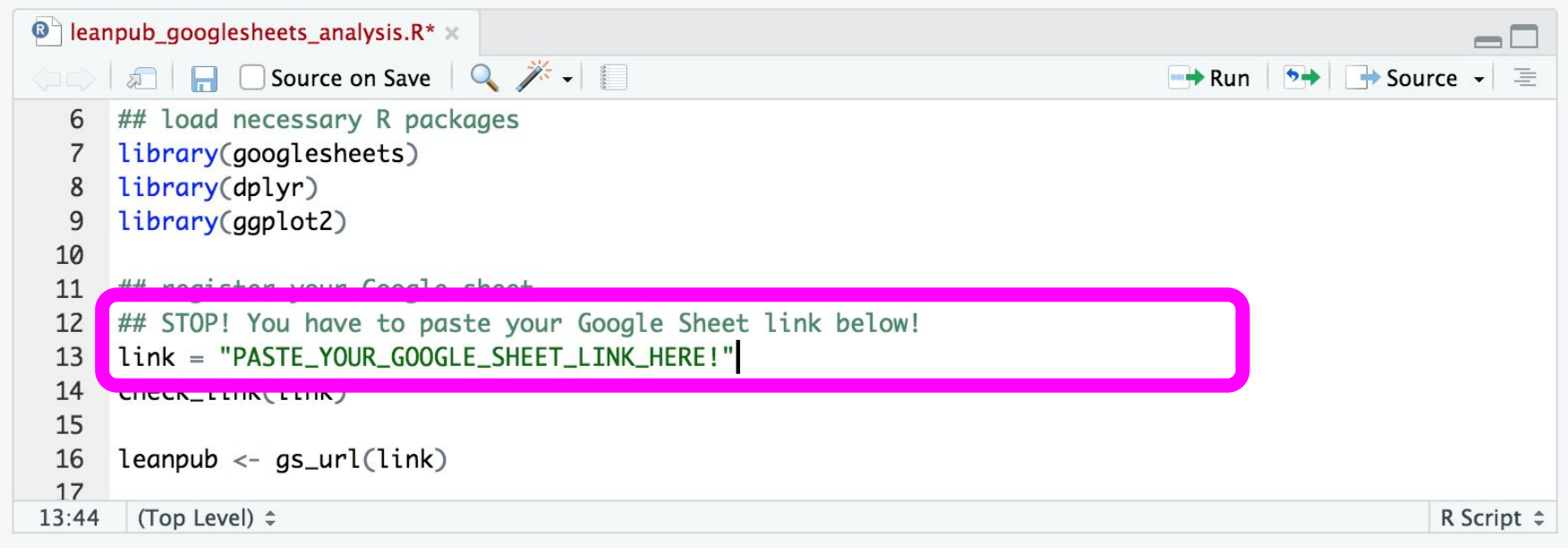
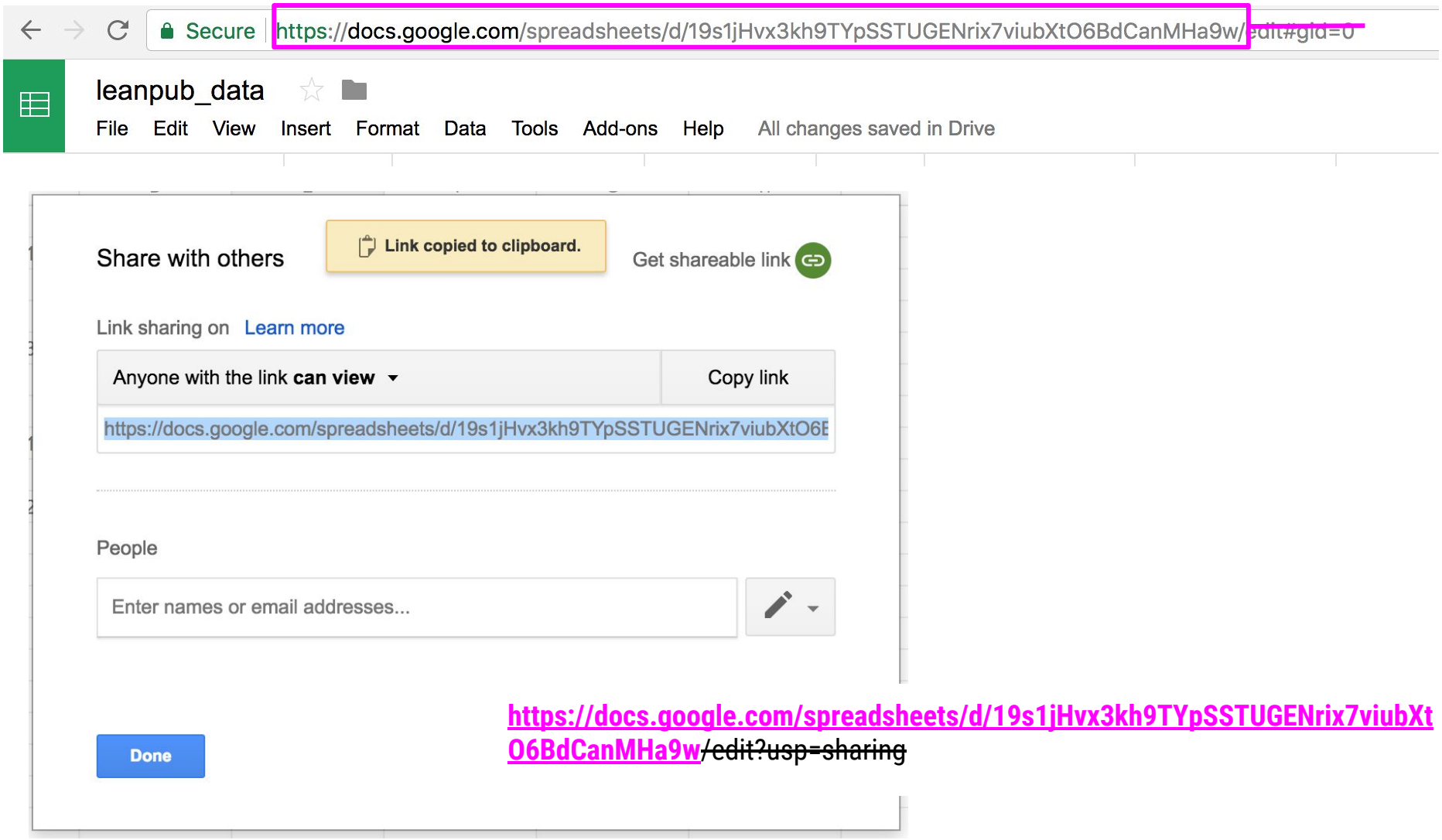
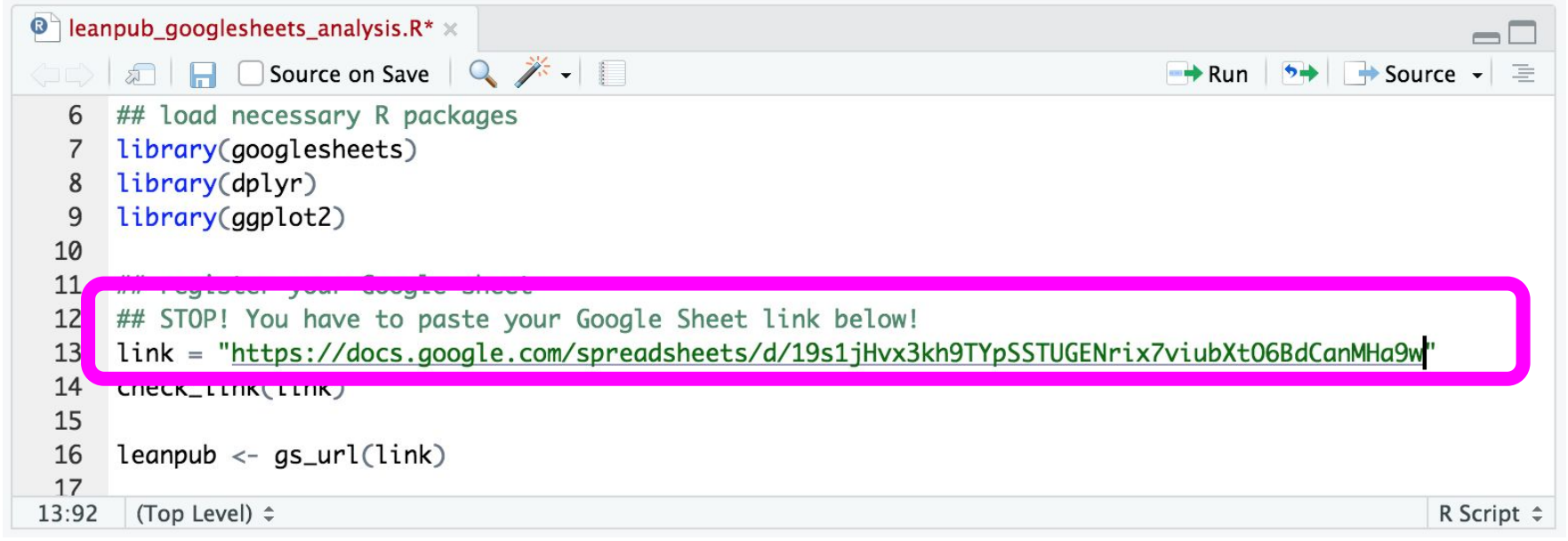
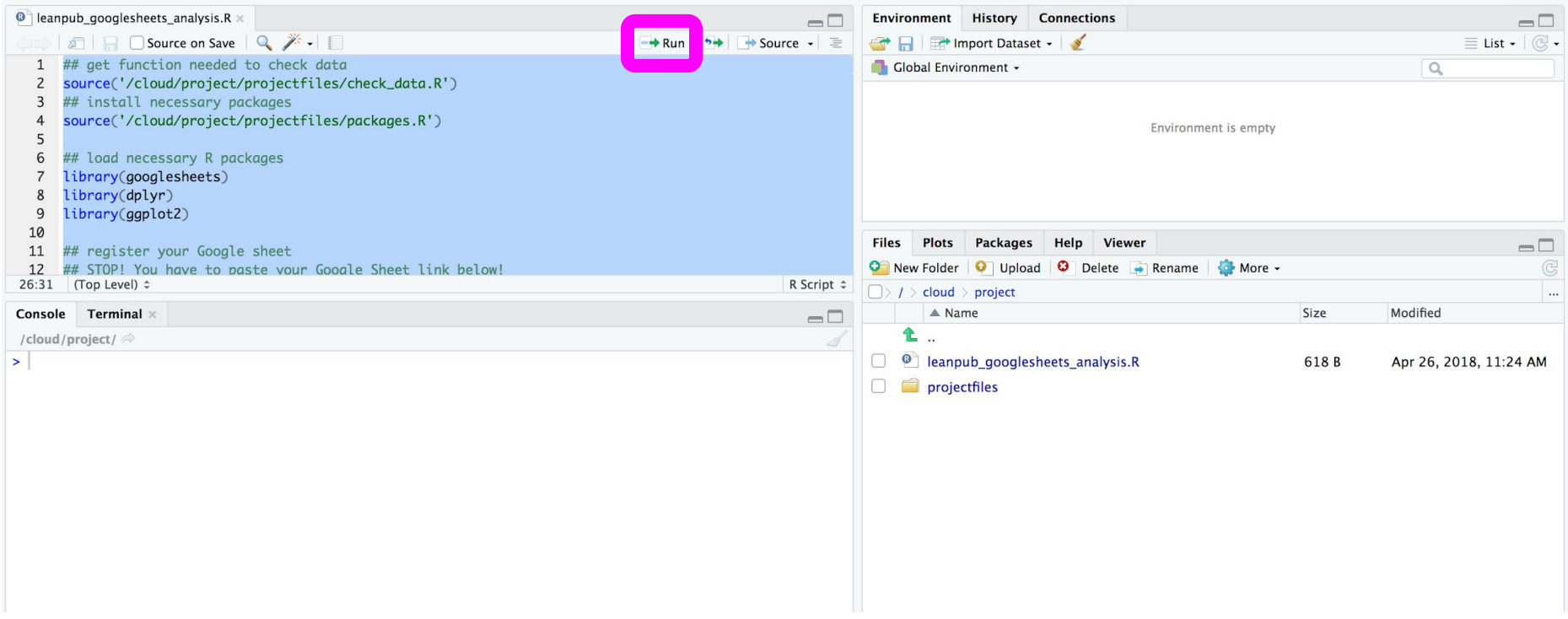
leanpub_googlesheets_analysis.R
561 B
Apr 26, 2018, 11:14 AM
projectfiles


leanpub_googlesheets_analysis.R*
Source on Save
Run
Source
6 ## load necessary R packages
7 library(googlesheets)
8 library(dplyr)
9 library(ggplot2)
10
11
12 ## STOP! You have to paste your Google Sheet link below!
13 link = "PASTE_YOUR_GOOGLE_SHEET_LINK_HERE!"
14
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/19s1jHvx3kh9TYpSSTUGENrix7viubXtO6E
People
Enter names or email addresses...
Done
https://docs.google.com/spreadsheets/d/19s1jHvx3kh9TYpSSTUGENrix7viubXtO6BdCanMHa9w/edit?usp=sharing


leanpub_googlesheets_analysis.R*
Source on Save
Run
Source
6 ## load necessary R packages
7 library(googlesheets)
8 library(dplyr)
9 library(ggplot2)
10
11
12 ## STOP! You have to paste your Google Sheet link below!
13 link = "https://docs.google.com/spreadsheets/d/19s1jHvx3kh9TYpSSTUGENrix7viubXtO6BdCanMHa9w"
14
15
16 leanpub <- gs_url(link)
17
13:92
(Top Level)
R Script


leanpub_googlesheets_analysis.R
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(googlesheets)
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
/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
..
leanpub_googlesheets_analysis.R
618 B
Apr 26, 2018, 11:24 AM
projectfiles

leanpub_googlesheets_analysis.R*

```
## get function needed to check data
source('/cloud/project/projectfiles/check_data.R')
## install necessary packages
source('/cloud/project/projectfiles/packages.R')

## load necessary R packages
library(googlesheets)
library(dplyr)
library(ggplot2)

## register your Google sheet
## STOP! You have to paste your Google Sheet link below!
link = "https://docs.google.com/spreadsheets/d/19s1jHvx3kh9TYpSSTUGENrix7viubXtO6BdCanMHa9w"
check_link(link)

leanpub <- gs_url(link)

## get data from your Google sheet
df <- leanpub %>%
  gs_read()
```

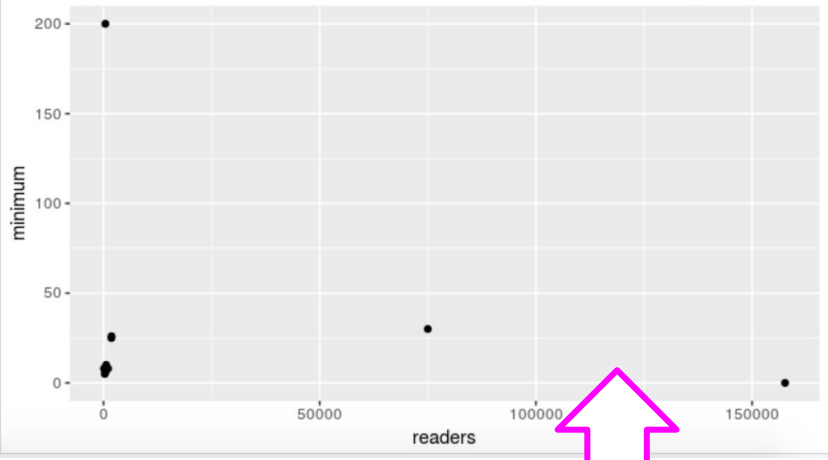
Console Terminal

```
/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)
>
```

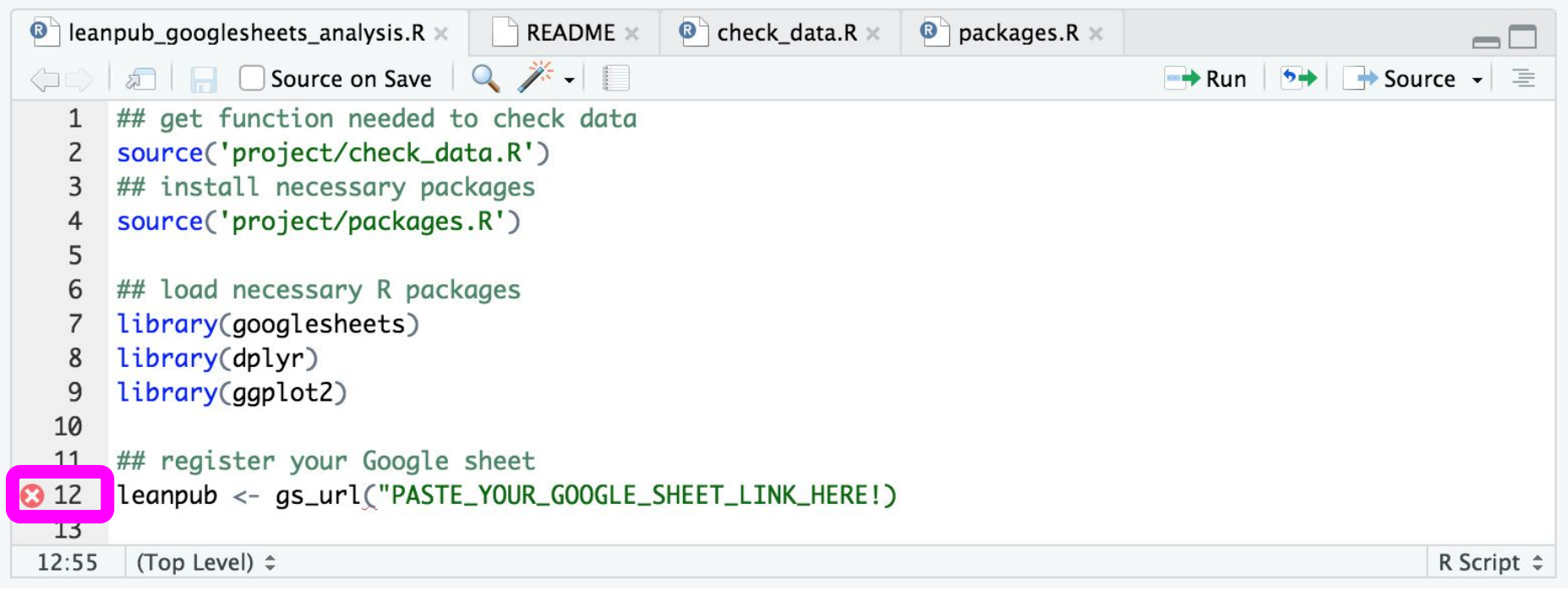
Environment History Connections

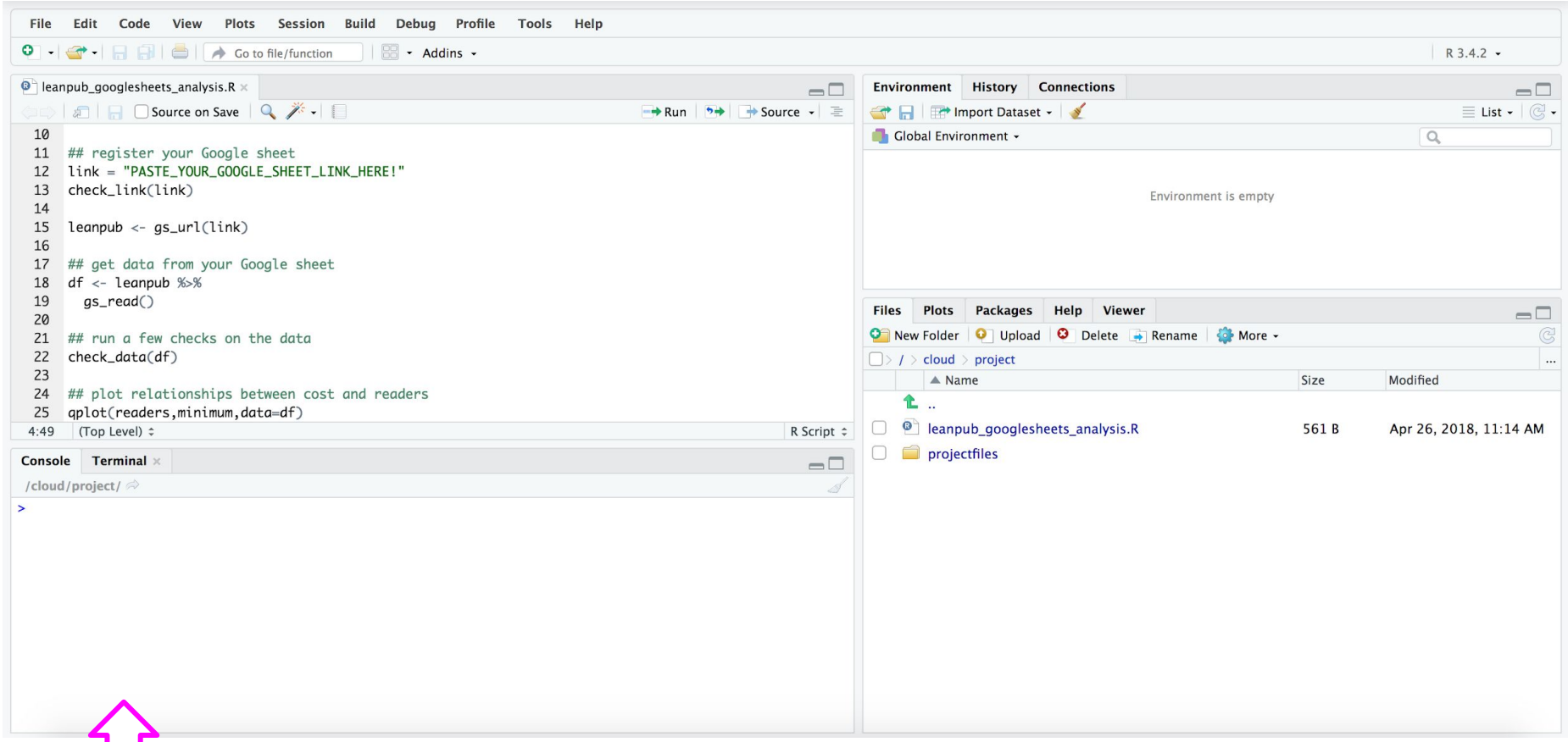
| | |
|---|---|
| leanpub | List of 17 |
| Values | |
| link | "https://docs.google.com/spreadsheets/d/19s1jHvx3kh9TYpSSTU… |
| list.of.packages | chr [1:3] "googlesheets" "dplyr" "ggplot2" |
| new.packages | character (empty) |
| Functions | |

Files Plots Packages Help Viewer

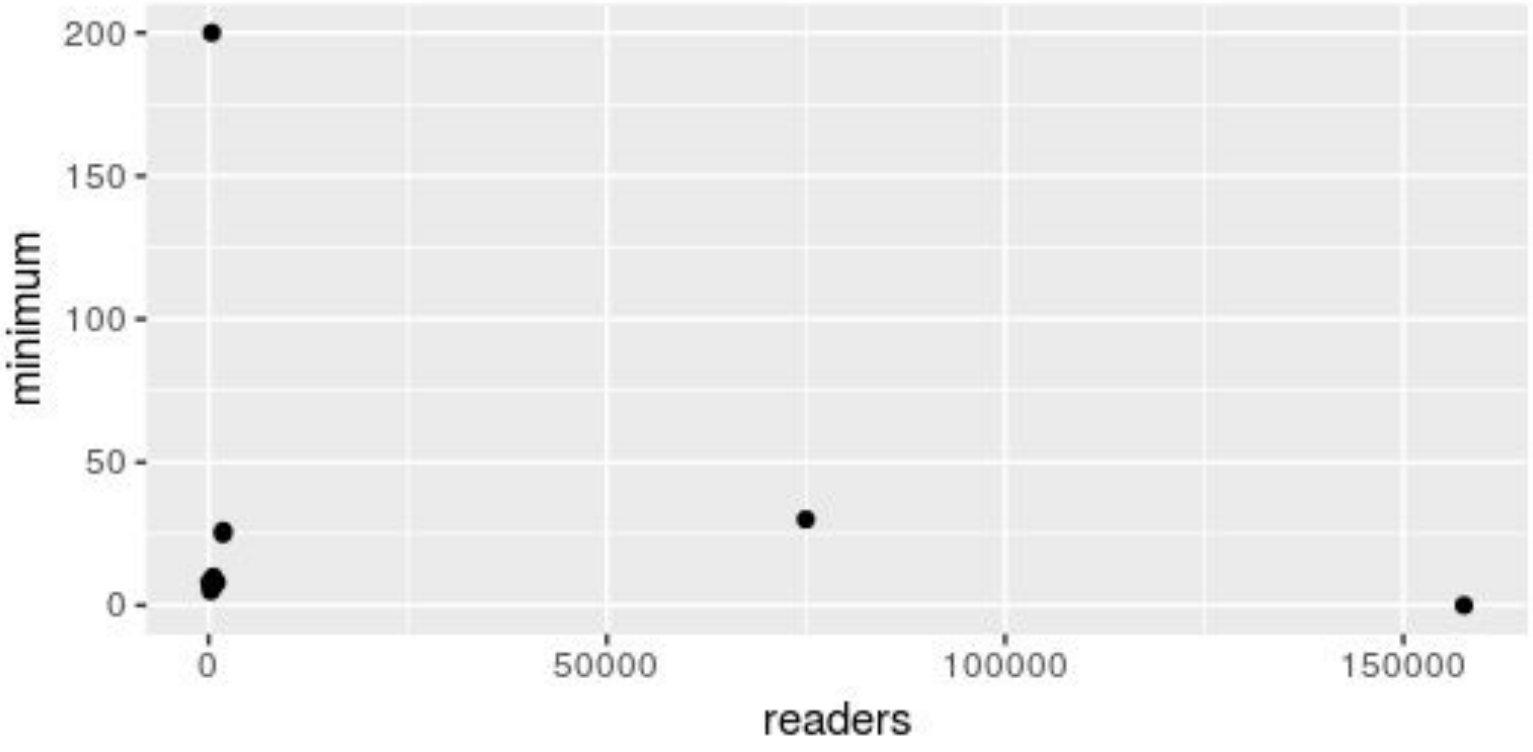



Plot should show up over here once you run the code


leanpub_googlesheets_analysis.R
README
check_data.R
packages.R
Source on Save
Run
Source
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(googlesheets)
8 library(dplyr)
9 library(ggplot2)
10
11 ## register your Google sheet
12 leanpub <- gs_url("PASTE_YOUR_GOOGLE_SHEET_LINK_HERE!)
13
12:55
(Top Level)
R Script




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


200
150
100
50
0
minimum
0
50000
100000
150000
readers