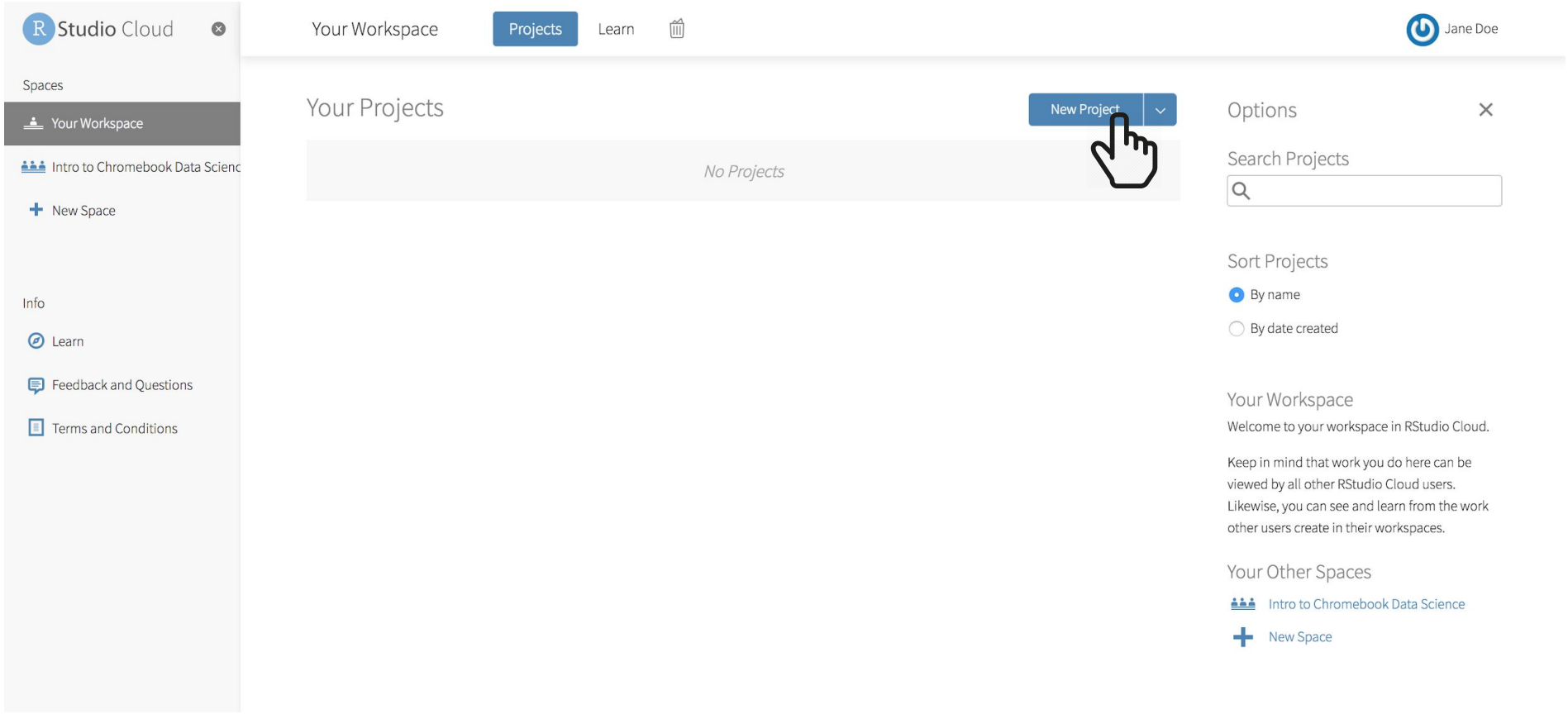
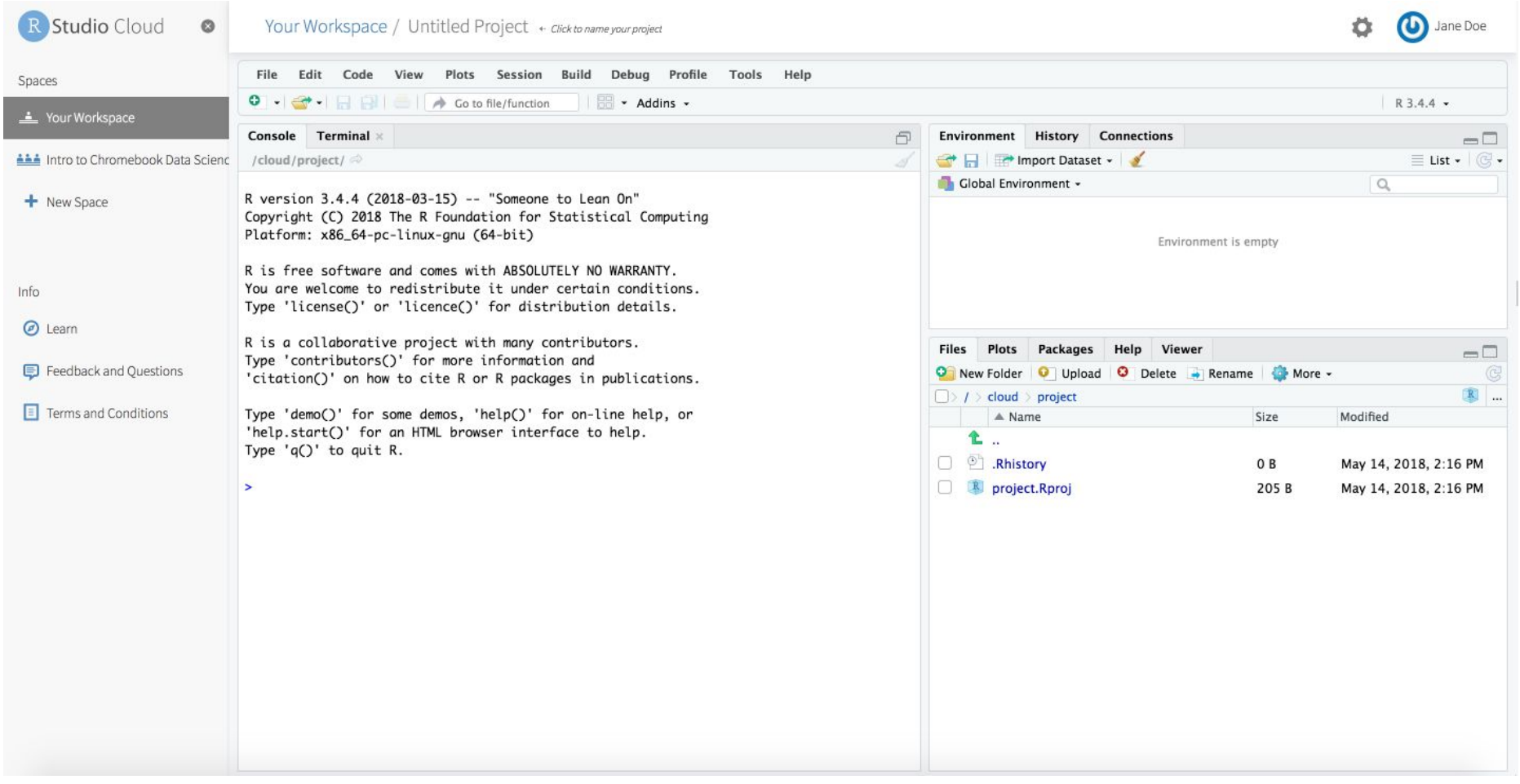
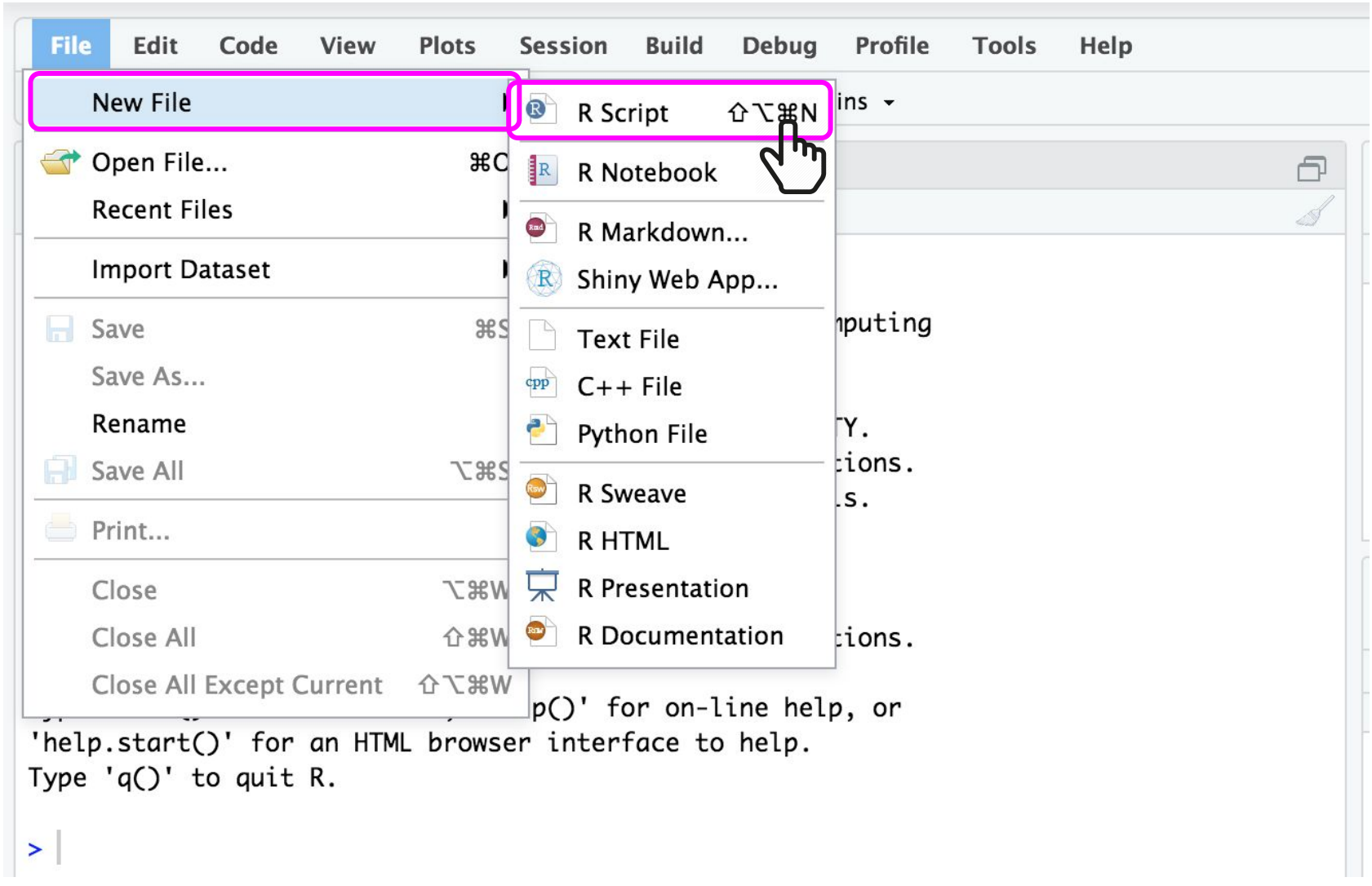
RStudio Cloud Tour

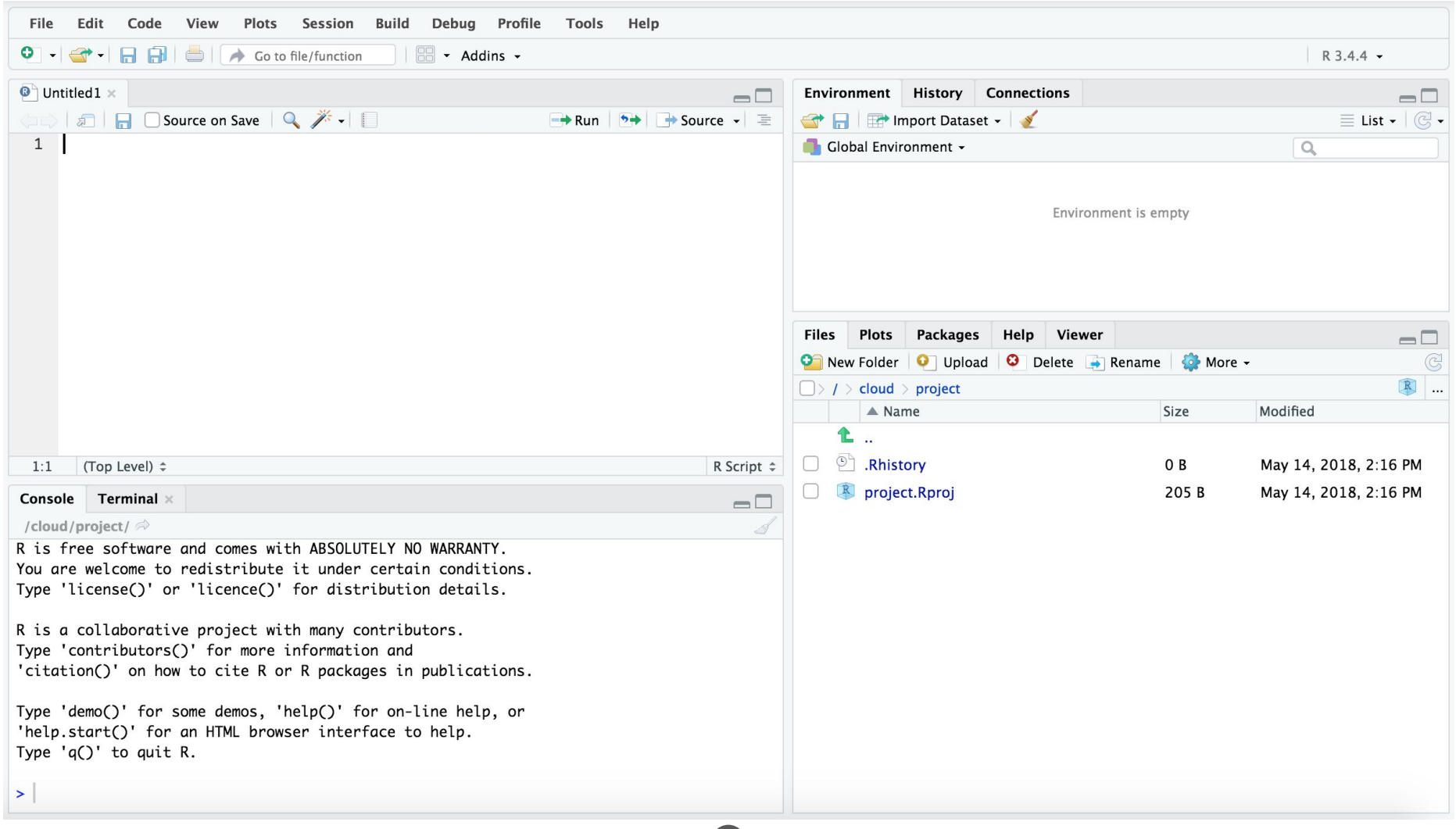
Introduction to R



https://rstudio.cloud/projects


Studio Cloud
Your Workspace / Untitled Project ← Click to name your project
Jane Doe
Spaces
Your Workspace
Intro to Chromebook Data Scienc
New Space
Info
Learn
Feedback and Questions
Terms and Conditions
File Edit Code View Plots Session Build Debug Profile Tools Help
Go to file/function
Addins
R 3.4.4
Console Terminal
/cloud/project/
R version 3.4.4 (2018-03-15) -- "Someone to Lean On"
Copyright (C) 2018 The R Foundation for Statistical Computing
Platform: x86_64-pc-linux-gnu (64-bit)
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
..
.Rhistory 0 B May 14, 2018, 2:16 PM
project.Rproj 205 B May 14, 2018, 2:16 PM


File
Edit
Code
View
Plots
Session
Build
Debug
Profile
Tools
Help
New File
Open File...
Recent Files
Import Dataset
Save
Save As...
Rename
Save All
Print...
Close
Close All
Close All Except Current
R Script
R Notebook
R Markdown...
Shiny Web App...
Text File
C++ File
Python File
R Sweave
R HTML
R Presentation
R Documentation
'help.start()' for an HTML browser interface to help.
Type 'q()' to quit R.
>


File Edit Code View Plots Session Build Debug Profile Tools Help
Go to file/function
Addins
R 3.4.4
Untitled1
Source on Save
Run
Source
1
1:1
(Top Level)
R Script
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
..
.Rhistory 0 B May 14, 2018, 2:16 PM
project.Rproj 205 B May 14, 2018, 2:16 PM
Console Terminal
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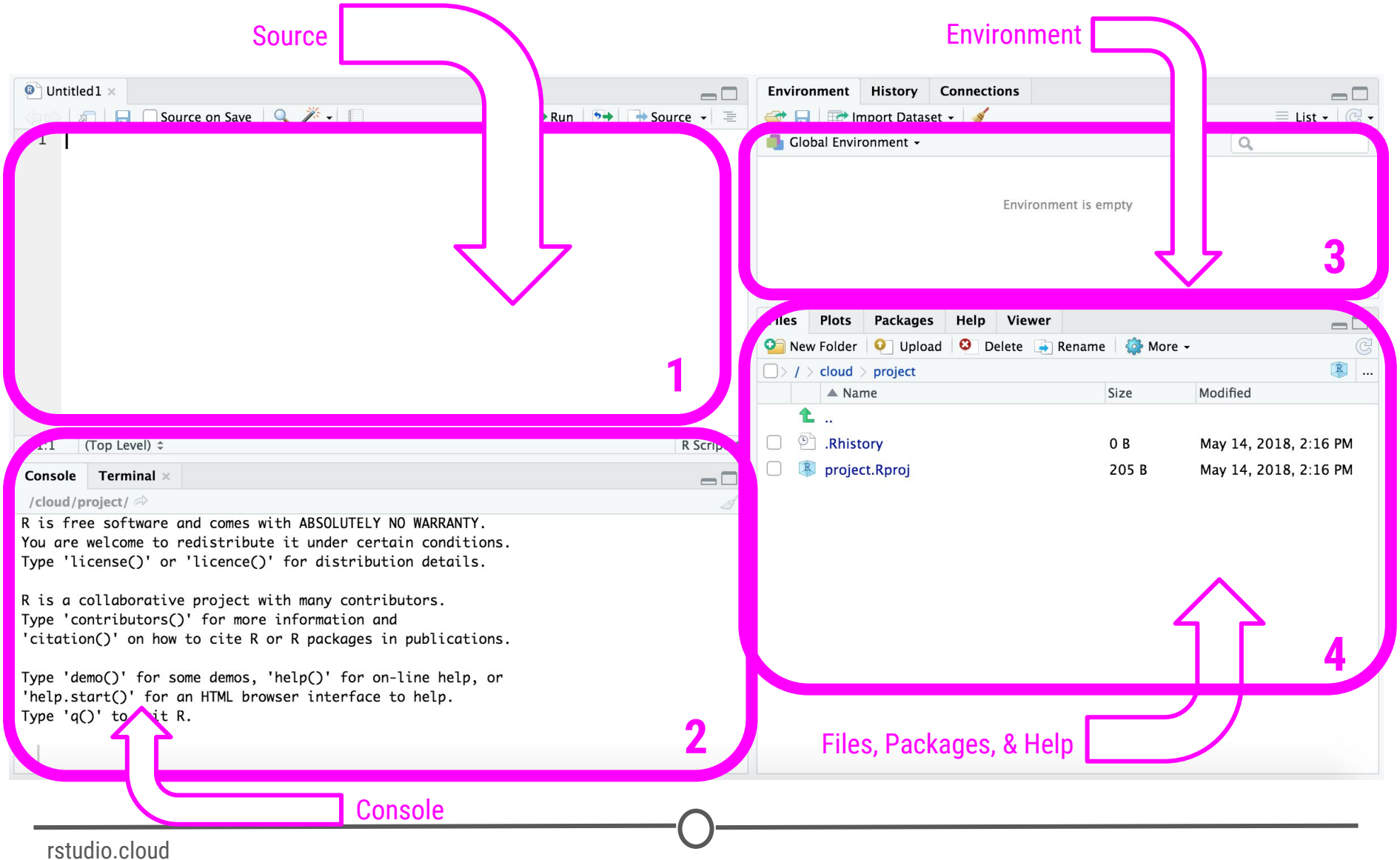
Source
Environment
Untitled1
Source on Save
Run
Source
1
Environment
History
Connections
Import Dataset
List
Global Environment
Environment is empty
3
Plots
Packages
Help
Viewer
New Folder
Upload
Delete
Rename
More
cloud
project
Name
Size
Modified
..
.Rhistory
0 B
May 14, 2018, 2:16 PM
project.Rproj
205 B
May 14, 2018, 2:16 PM
4
(Top Level)
Console
Terminal
/cloud/project/
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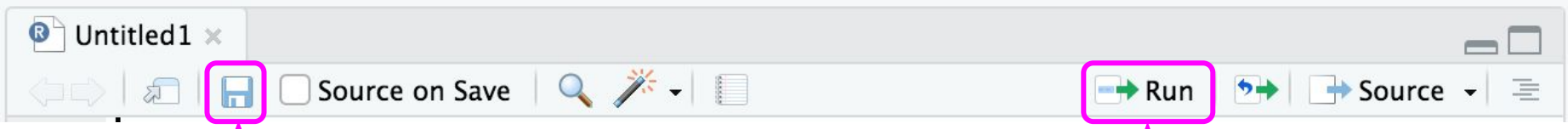
Type 'q()' to quit R.
2
Files, Packages, & Help
Console

New file

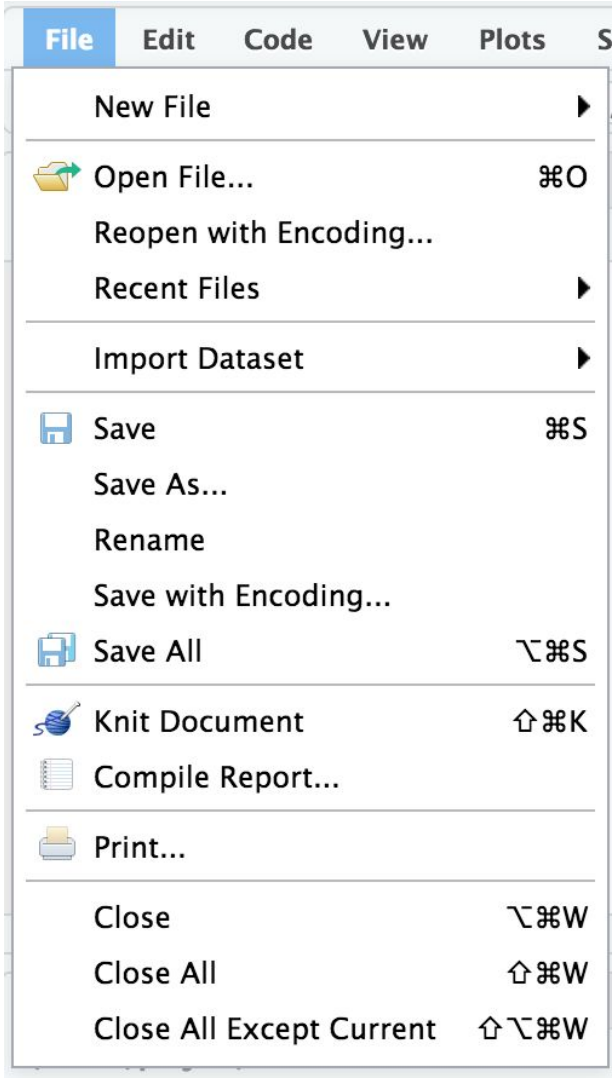
Open file

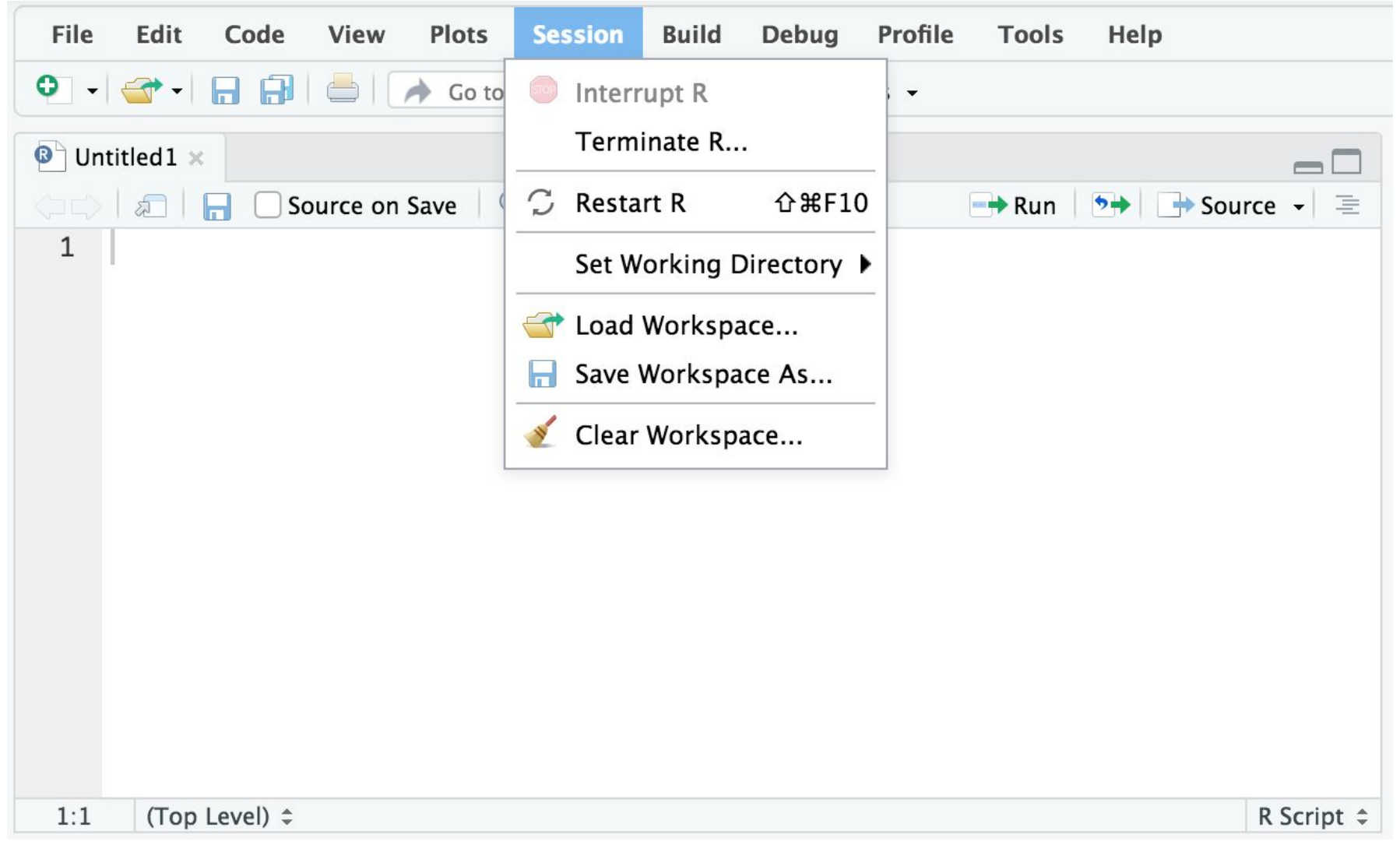
Change panel organization

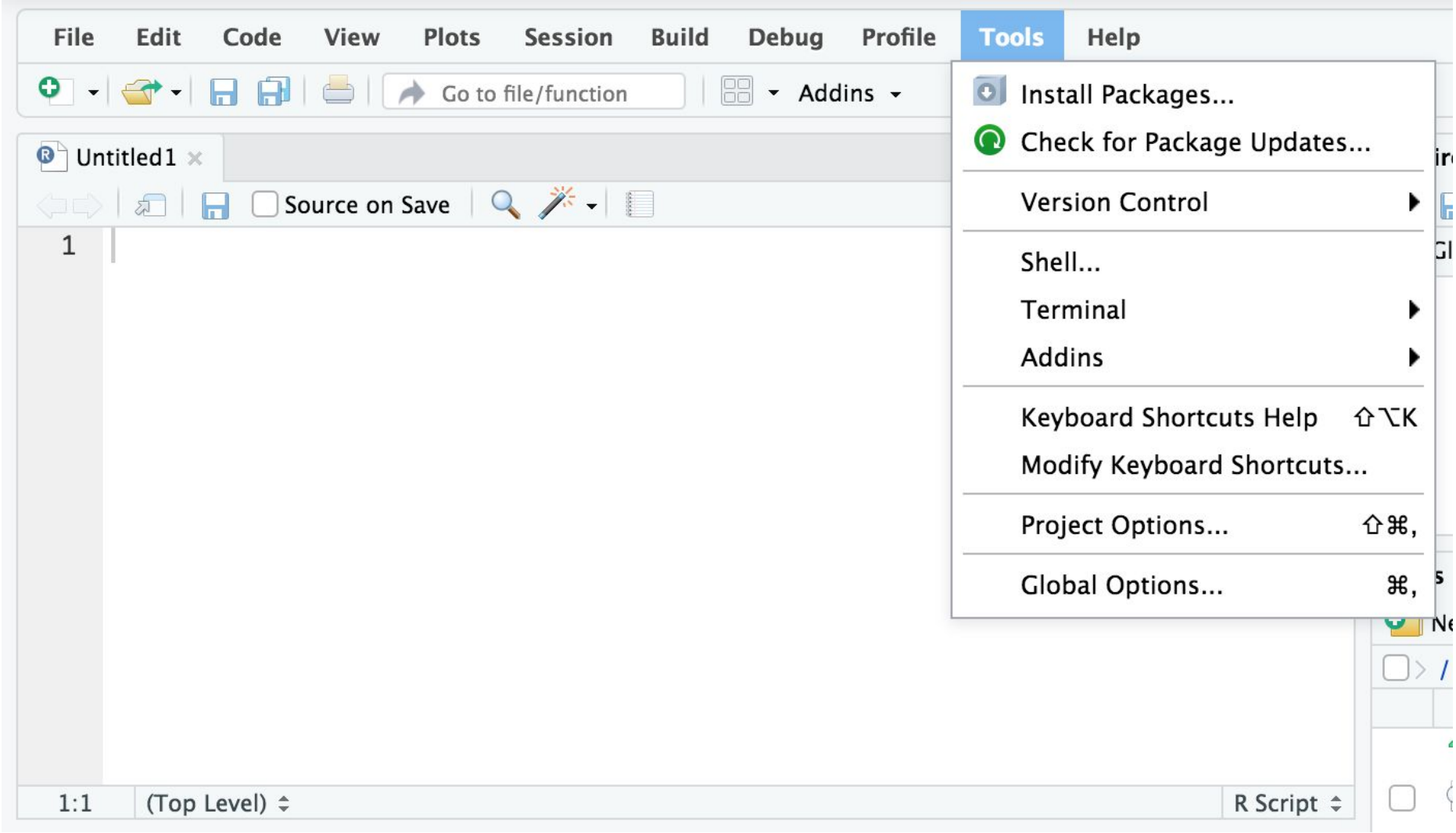


Save file

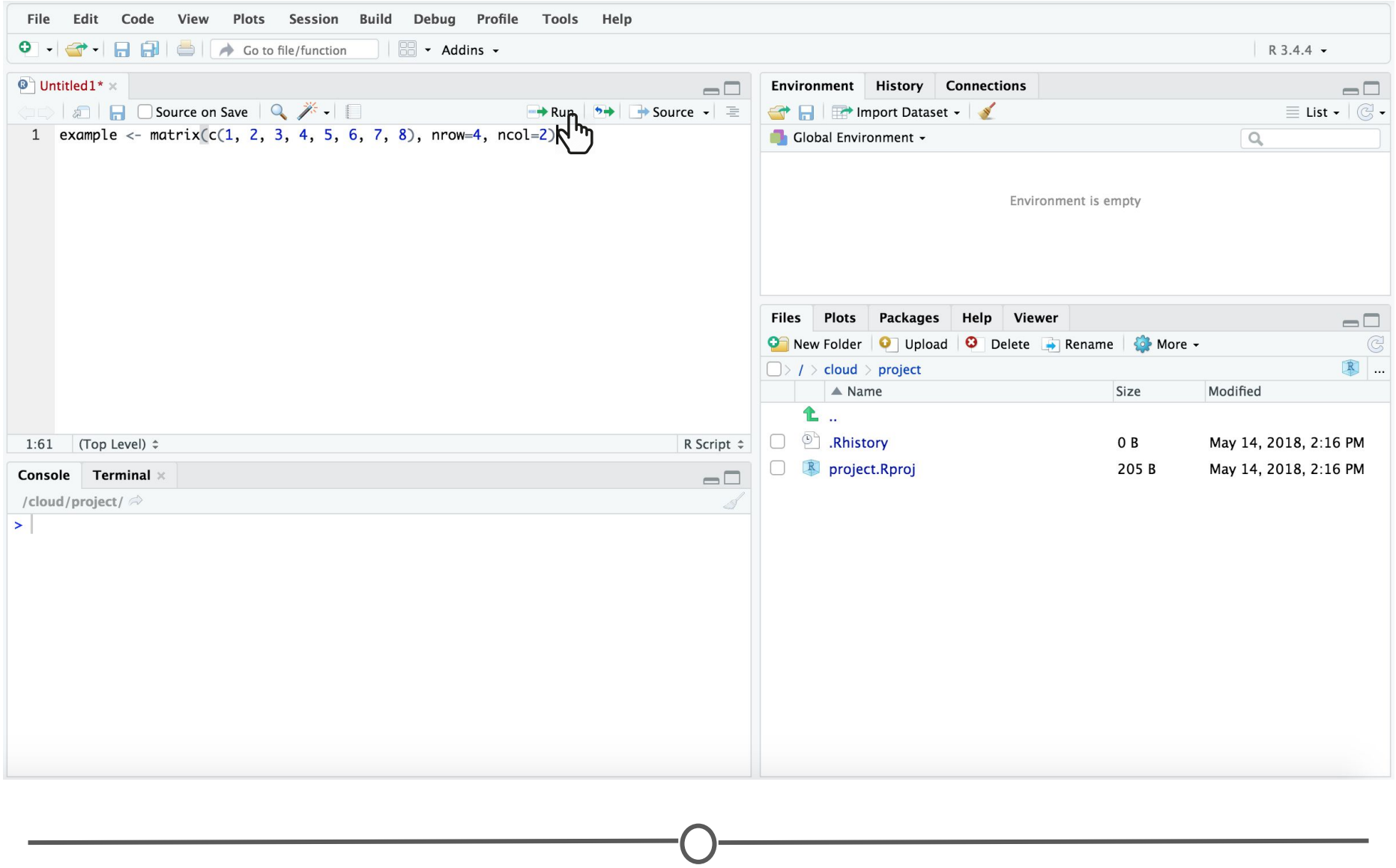
Run the code you've written

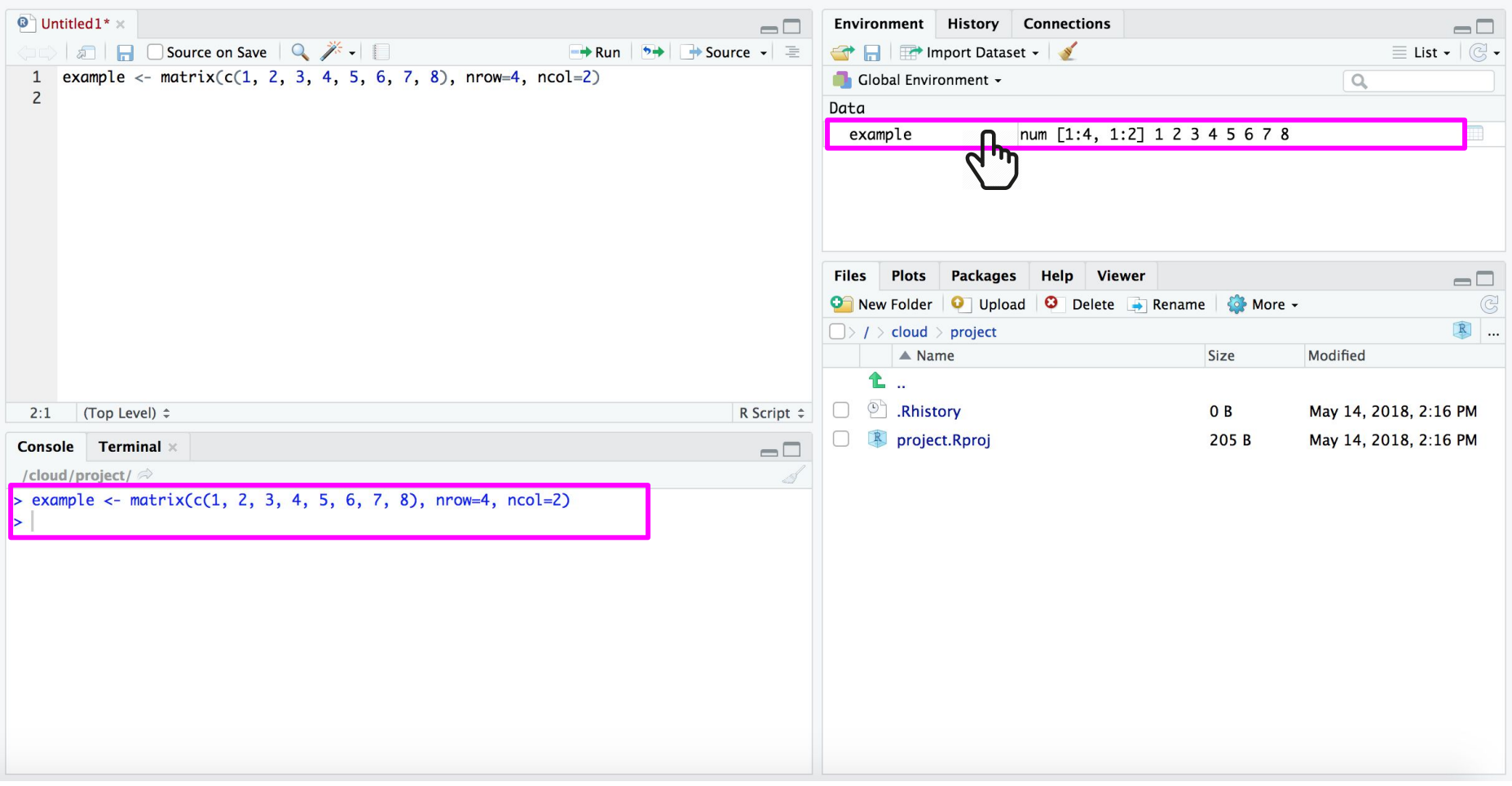

File
Edit
Code
View
Plots
S
New File
Open File... ⌘O
Reopen with Encoding...
Recent Files
Import Dataset
Save ⌘S
Save As...
Rename
Save with Encoding...
Save All ⌥⌘S
Knit Document ⇧⌘K
Compile Report...
Print...
Close ⌥⌘W
Close All ⇧⌘W
Close All Except Current ⇧⌥⌘W


File
Edit
Code
View
Plots
Session
Build
Debug
Profile
Tools
Help
Go to
Interrupt R
Terminate R...
Restart R
⇧⌘F10
Set Working Directory
Load Workspace...
Save Workspace As...
Clear Workspace...
Untitled1
Source on Save
Run
Source
1
1:1
(Top Level)
R Script


File
Edit
Code
View
Plots
Session
Build
Debug
Profile
Tools
Help
Go to file/function
Addins
Untitled1
Source on Save
1
Install Packages...
Check for Package Updates...
Version Control
Shell...
Terminal
Addins
Keyboard Shortcuts Help ⇧⌥K
Modify Keyboard Shortcuts...
Project Options... ⇧⌘,
Global Options... ⌘,
1:1
(Top Level)
R Script

Console
Terminal
/cloud/project/
> 1+1
[1] 2
>


File Edit Code View Plots Session Build Debug Profile Tools Help
Go to file/function
Addins
R 3.4.4
Untitled1*
Source on Save
Run
Source
1 example <- matrix(c(1, 2, 3, 4, 5, 6, 7, 8), nrow=4, ncol=2)
1:61
(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
..
.Rhistory
0 B
May 14, 2018, 2:16 PM
project.Rproj
205 B
May 14, 2018, 2:16 PM


Untitled1*
Source on Save
Run
Source
1 example <- matrix(c(1, 2, 3, 4, 5, 6, 7, 8), nrow=4, ncol=2)
2
2:1
(Top Level)
R Script
Console
Terminal
/cloud/project/
> example <- matrix(c(1, 2, 3, 4, 5, 6, 7, 8), nrow=4, ncol=2)
>
Environment
History
Connections
Import Dataset
List
Global Environment
Data
example
num [1:4, 1:2] 1 2 3 4 5 6 7 8
Files
Plots
Packages
Help
Viewer
New Folder
Upload
Delete
Rename
More
/ cloud project
Name
Size
Modified
..
.Rhistory
0 B
May 14, 2018, 2:16 PM
project.Rproj
205 B
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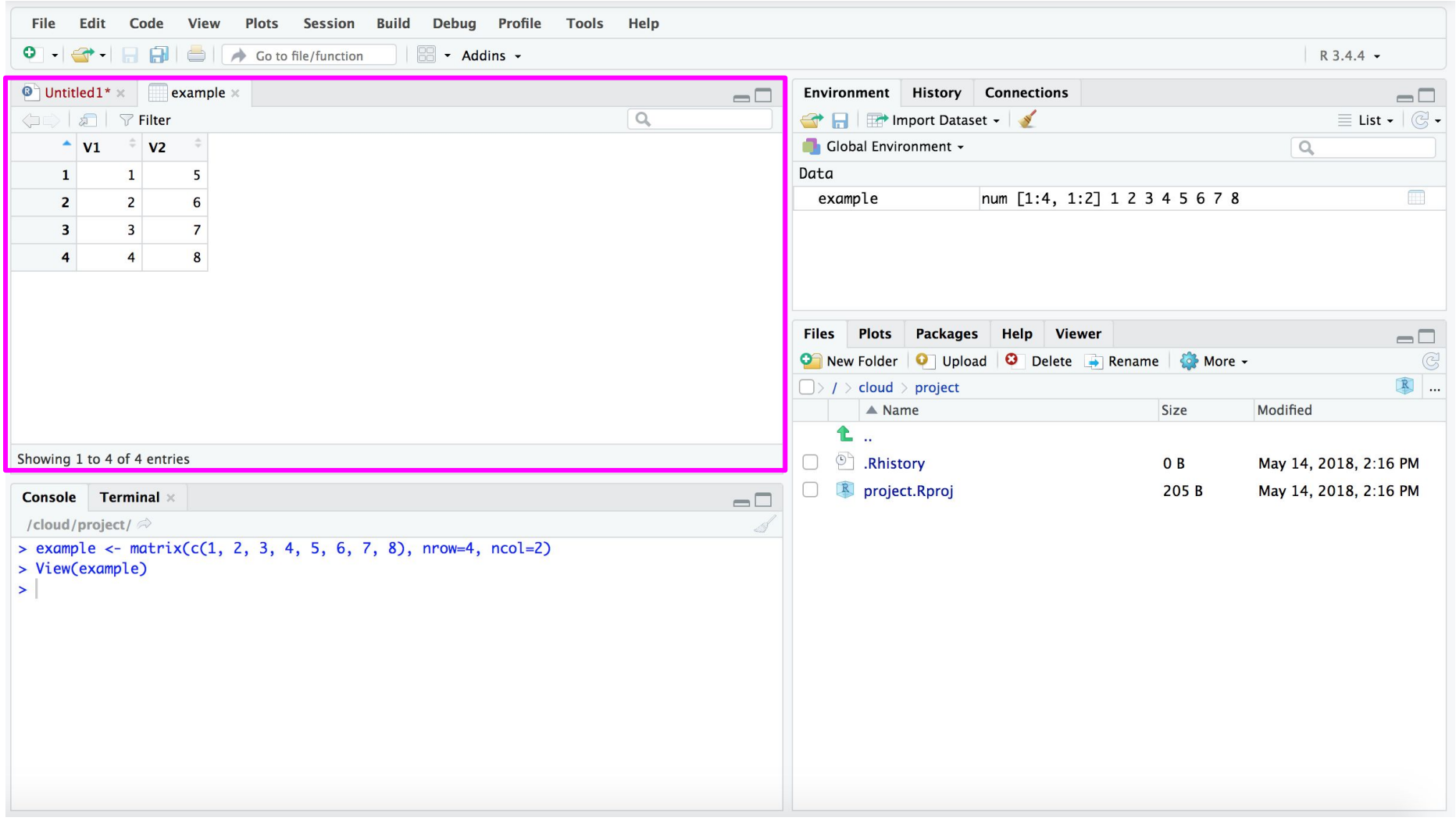
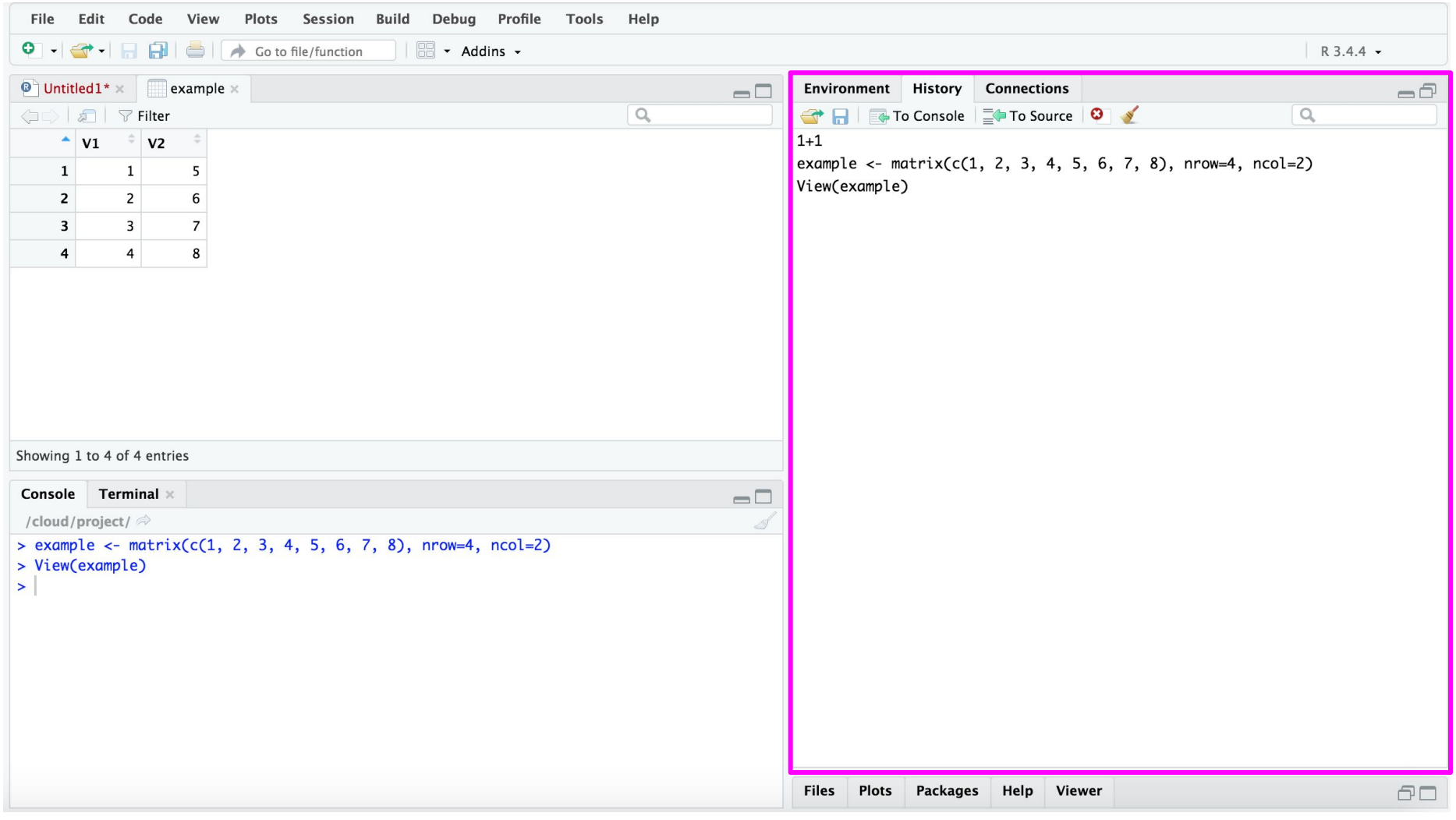
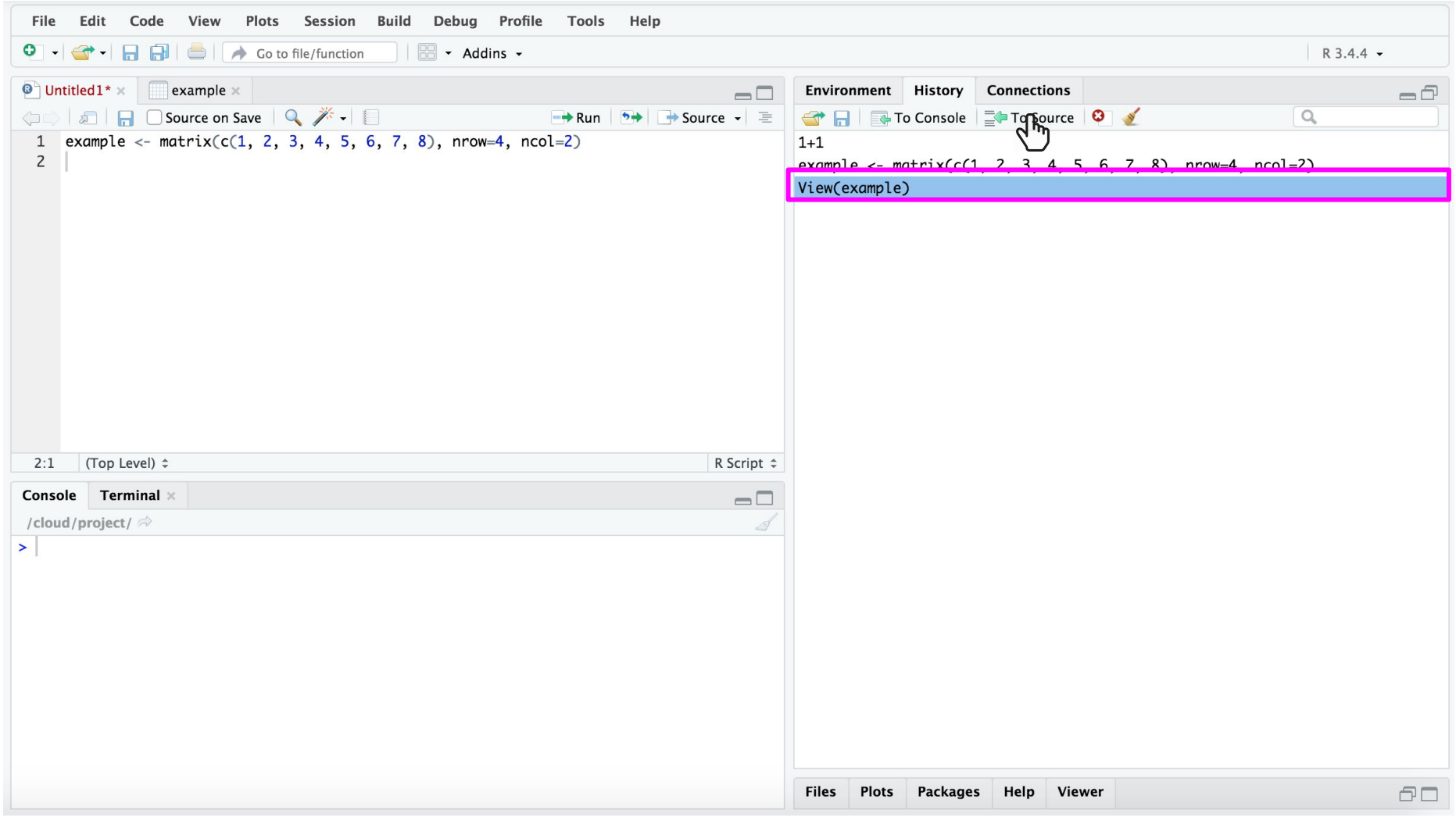
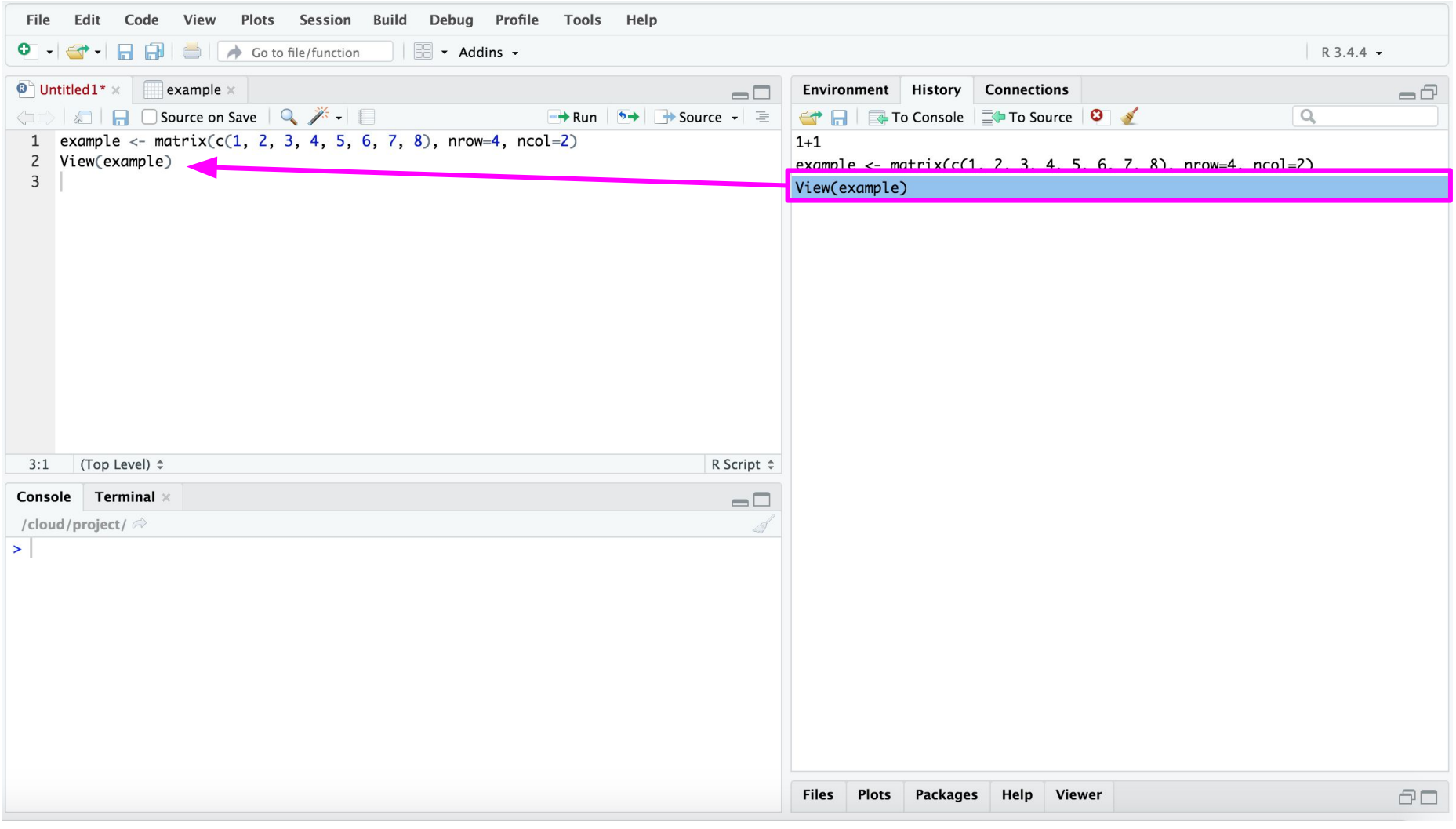
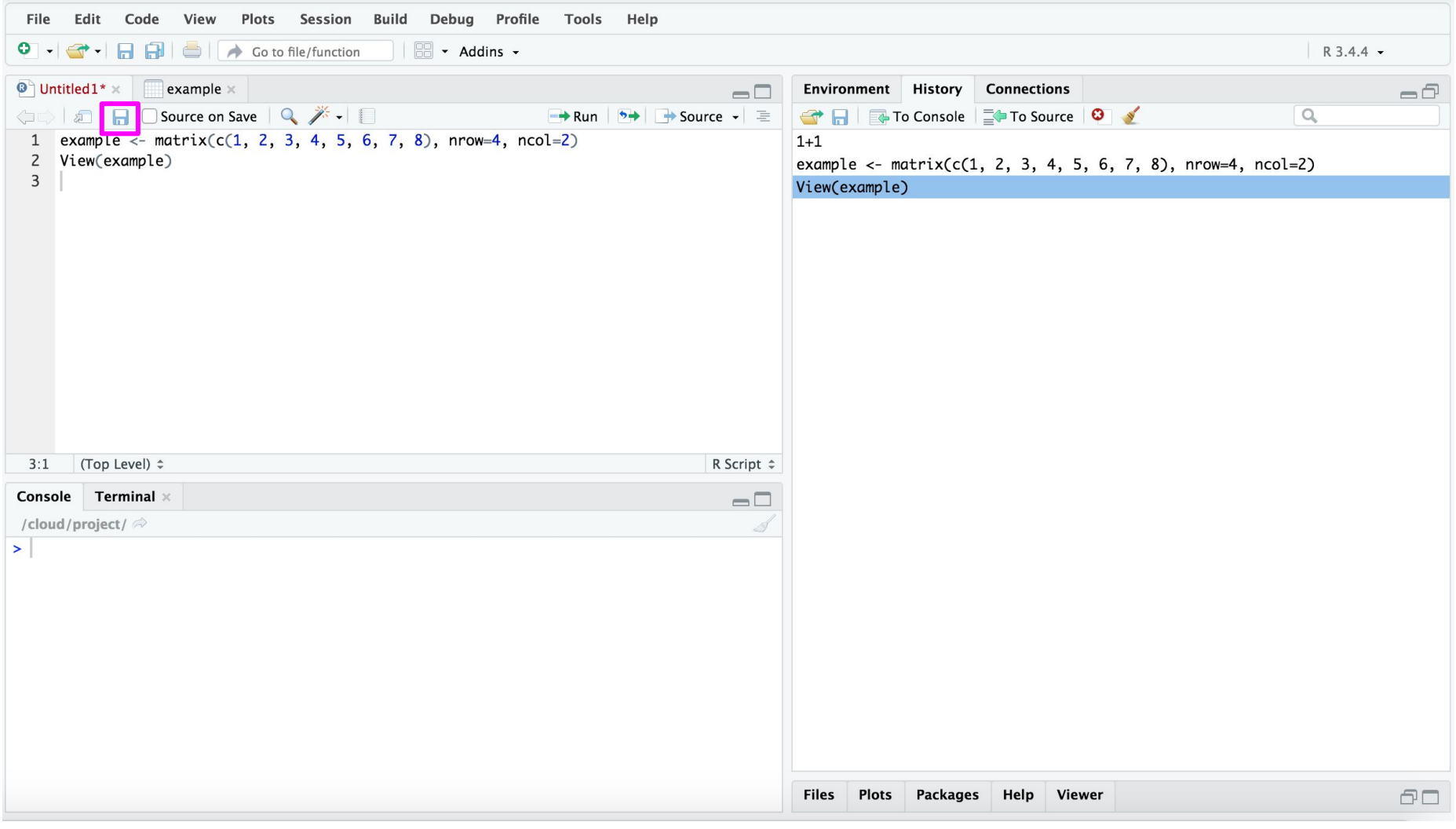
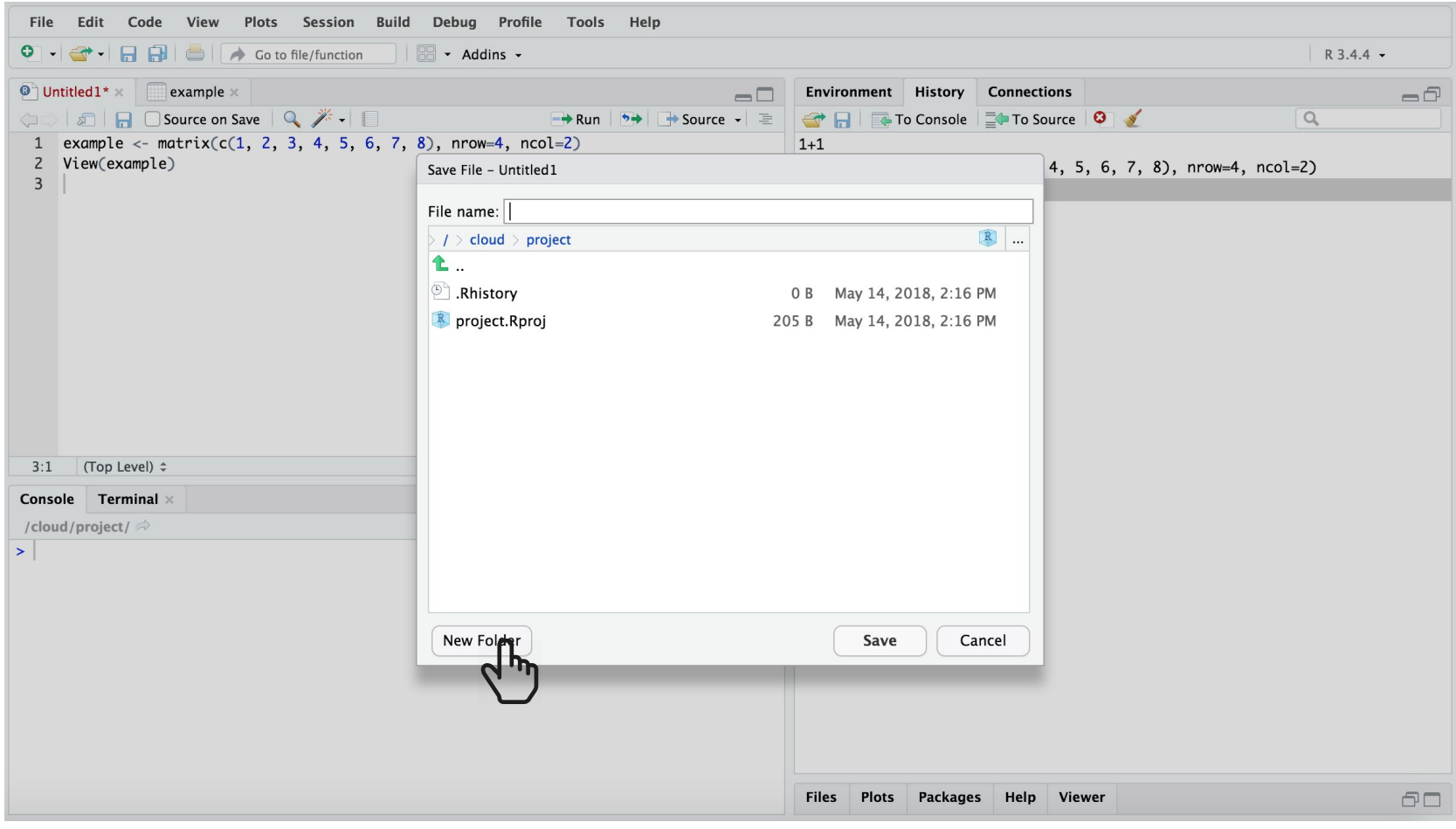

File Edit Code View Plots Session Build Debug Profile Tools Help
Go to file/function
Addins
R 3.4.4
Untitled1*
example
Filter
V1 V2
1 1 5
2 2 6
3 3 7
4 4 8
Showing 1 to 4 of 4 entries
Environment History Connections
Import Dataset
List
Global Environment
Data
example num [1:4, 1:2] 1 2 3 4 5 6 7 8
Files Plots Packages Help Viewer
New Folder Upload Delete Rename More
/ cloud project
Name Size Modified
..
.Rhistory 0 B May 14, 2018, 2:16 PM
project.Rproj 205 B May 14, 2018, 2:16 PM
Console Terminal
/cloud/project/
> example <- matrix(c(1, 2, 3, 4, 5, 6, 7, 8), nrow=4, ncol=2)
> View(example)
>

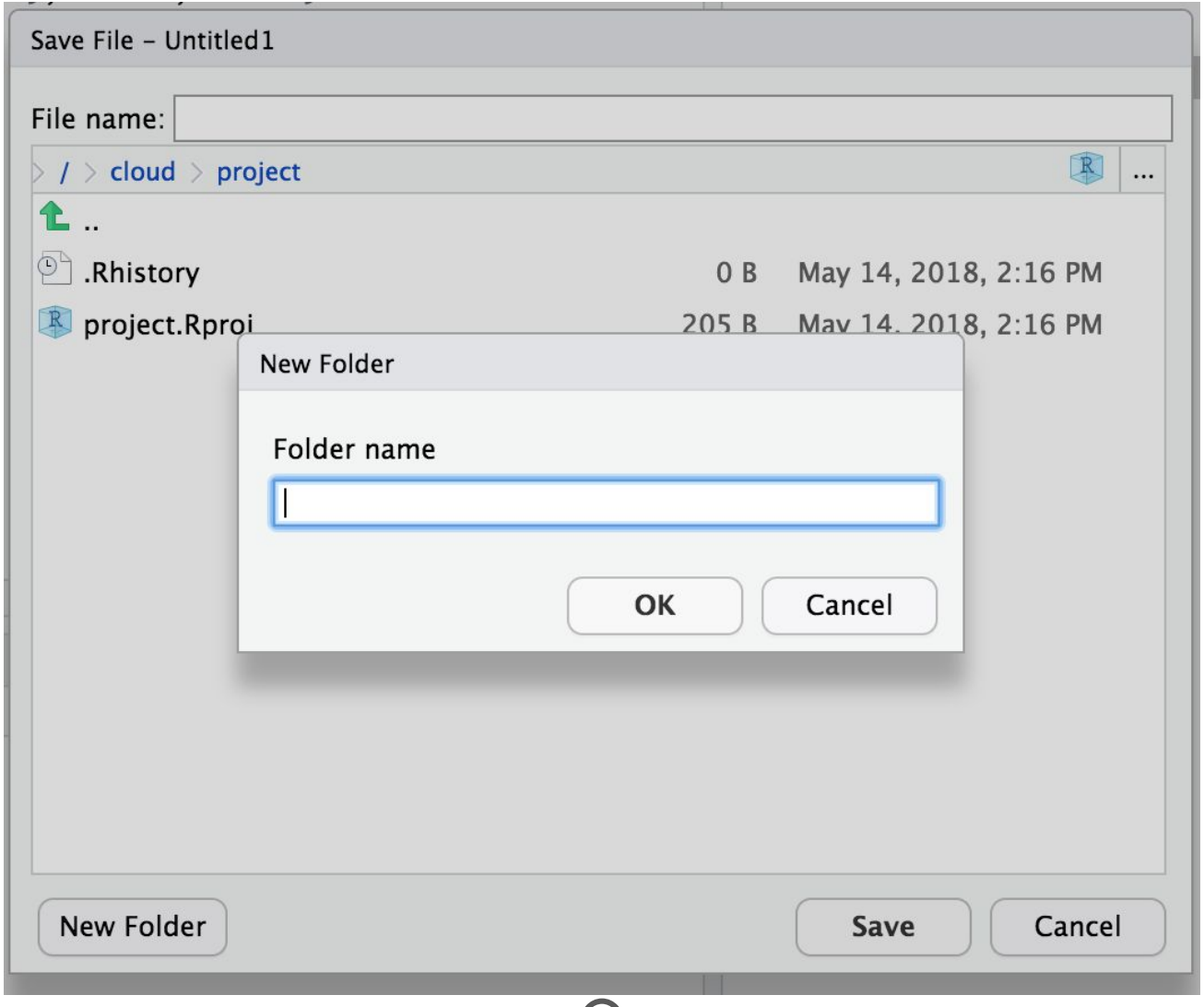

File Edit Code View Plots Session Build Debug Profile Tools Help
Go to file/function
Addins
R 3.4.4
Untitled1*
example
Filter
V1 V2
1 1 5
2 2 6
3 3 7
4 4 8
Showing 1 to 4 of 4 entries
Console
Terminal
/cloud/project/
> example <- matrix(c(1, 2, 3, 4, 5, 6, 7, 8), nrow=4, ncol=2)
> View(example)
>
Environment
History
Connections
To Console
To Source
1+1
example <- matrix(c(1, 2, 3, 4, 5, 6, 7, 8), nrow=4, ncol=2)
View(example)
Files
Plots
Packages
Help
Viewer

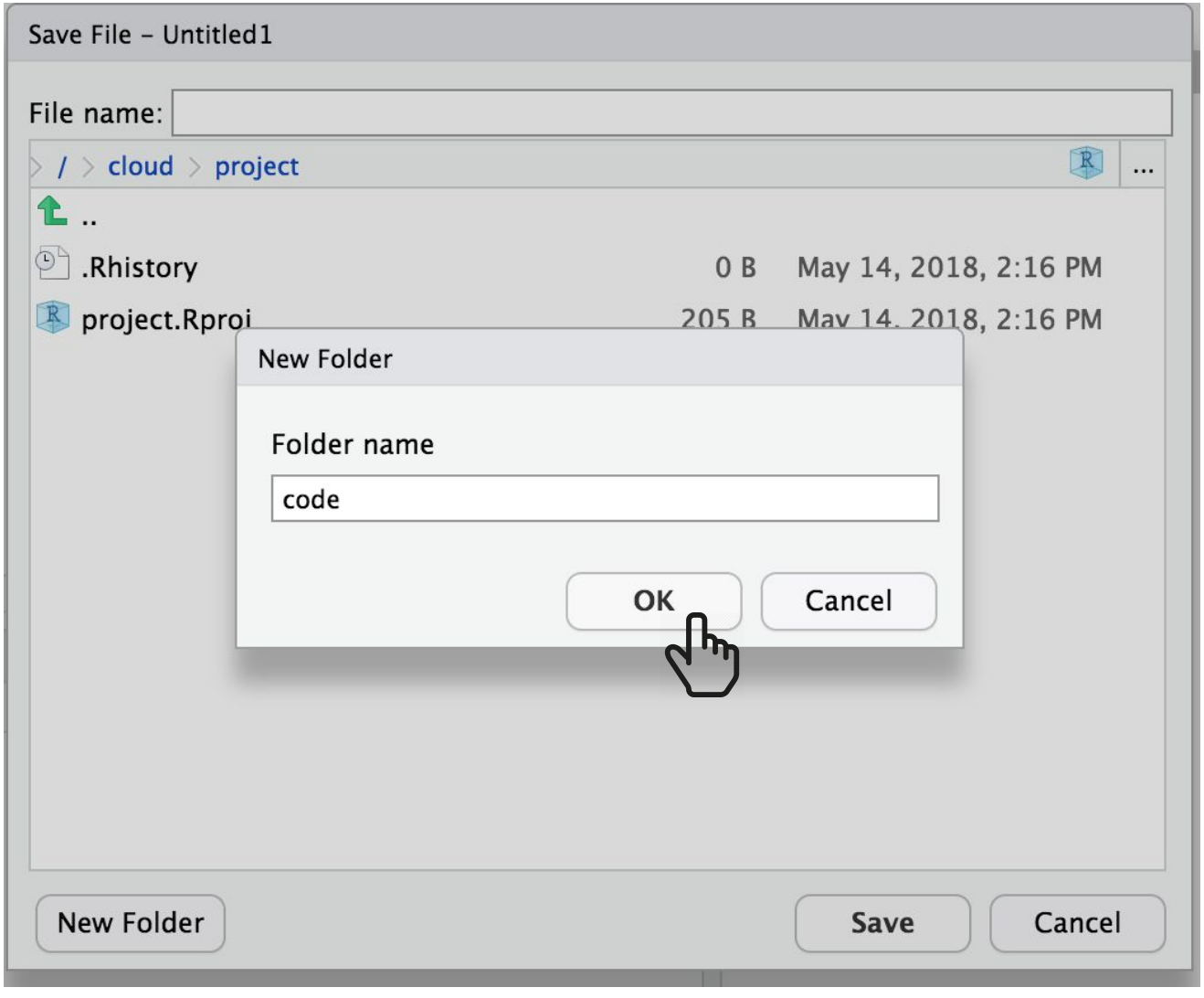

File Edit Code View Plots Session Build Debug Profile Tools Help
Go to file/function
Addins
R 3.4.4
Untitled1*
example
Source on Save
Run
Source
1 example <- matrix(c(1, 2, 3, 4, 5, 6, 7, 8), nrow=4, ncol=2)
2
2:1
(Top Level)
R Script
Console
Terminal
/cloud/project/
>
Environment
History
Connections
To Console
To Source
1+1
example <- matrix(c(1, 2, 3, 4, 5, 6, 7, 8), nrow=4, ncol=2)
View(example)
Files
Plots
Packages
Help
Viewer

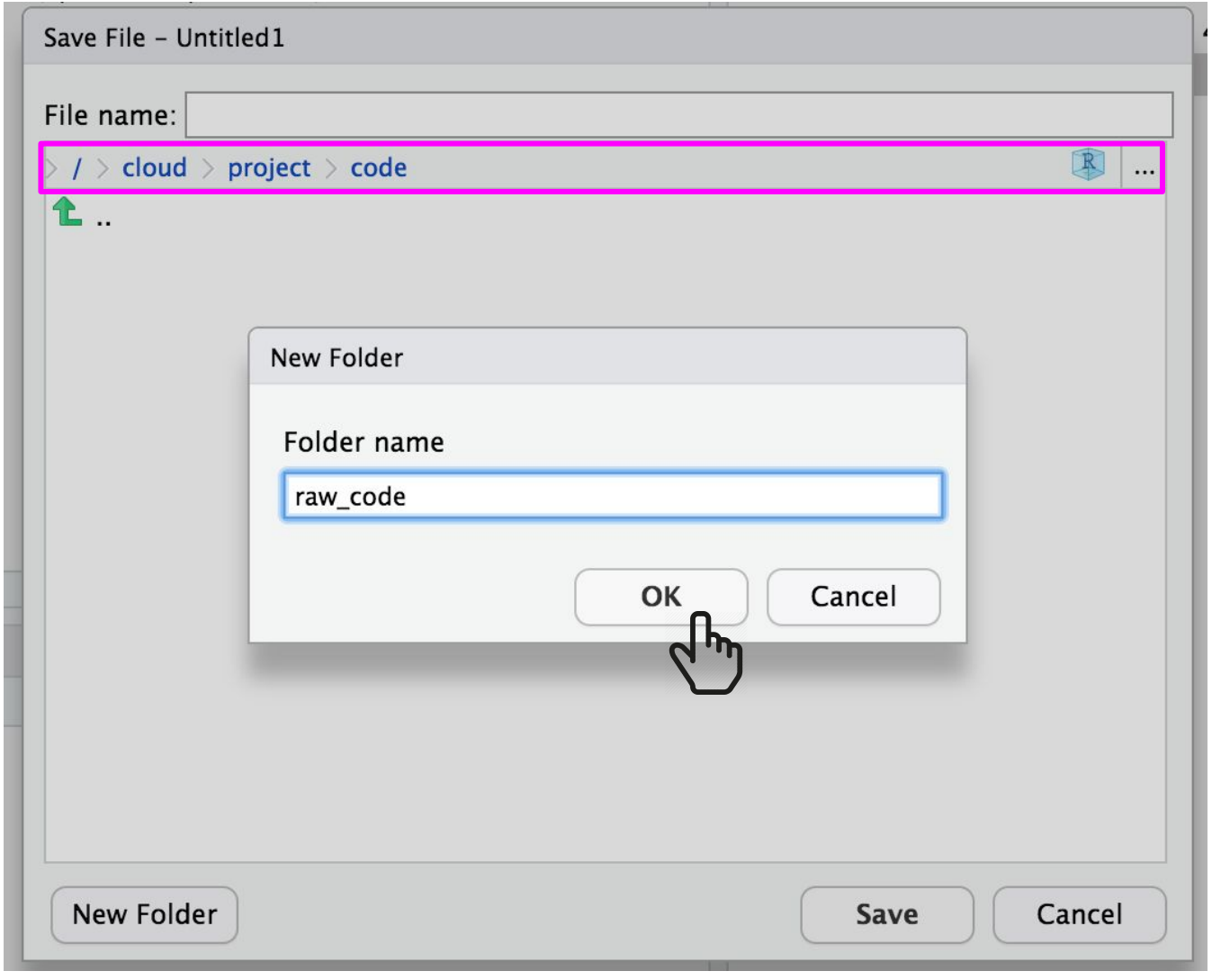

File Edit Code View Plots Session Build Debug Profile Tools Help
Go to file/function
Addins
R 3.4.4
Untitled1*
example
Source on Save
Run
Source
1 example <- matrix(c(1, 2, 3, 4, 5, 6, 7, 8), nrow=4, ncol=2)
2 View(example)
3
3:1
(Top Level)
R Script
Console
Terminal
/cloud/project/
>
Environment
History
Connections
To Console
To Source
1+1
example <- matrix(c(1, 2, 3, 4, 5, 6, 7, 8), nrow=4, ncol=2)
View(example)
Files
Plots
Packages
Help
Viewer

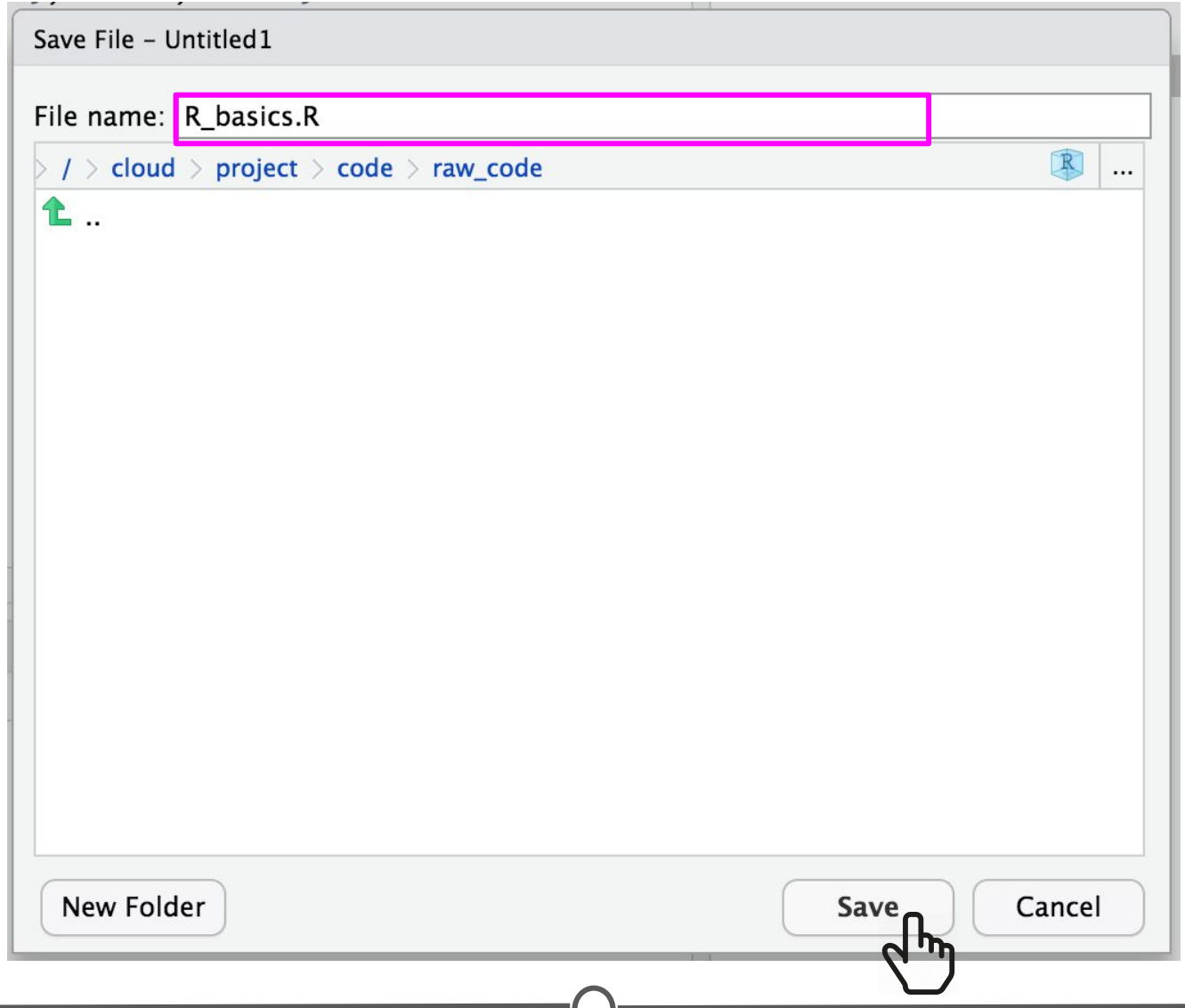

File Edit Code View Plots Session Build Debug Profile Tools Help
Go to file/function
Addins
R 3.4.4
Untitled1*
example
Source on Save
Run
Source
1 example <- matrix(c(1, 2, 3, 4, 5, 6, 7, 8), nrow=4, ncol=2)
2 View(example)
3
3:1
(Top Level)
R Script
Console
Terminal
/cloud/project/
>
Environment
History
Connections
To Console
To Source
1+1
example <- matrix(c(1, 2, 3, 4, 5, 6, 7, 8), nrow=4, ncol=2)
View(example)
Files
Plots
Packages
Help
Viewer

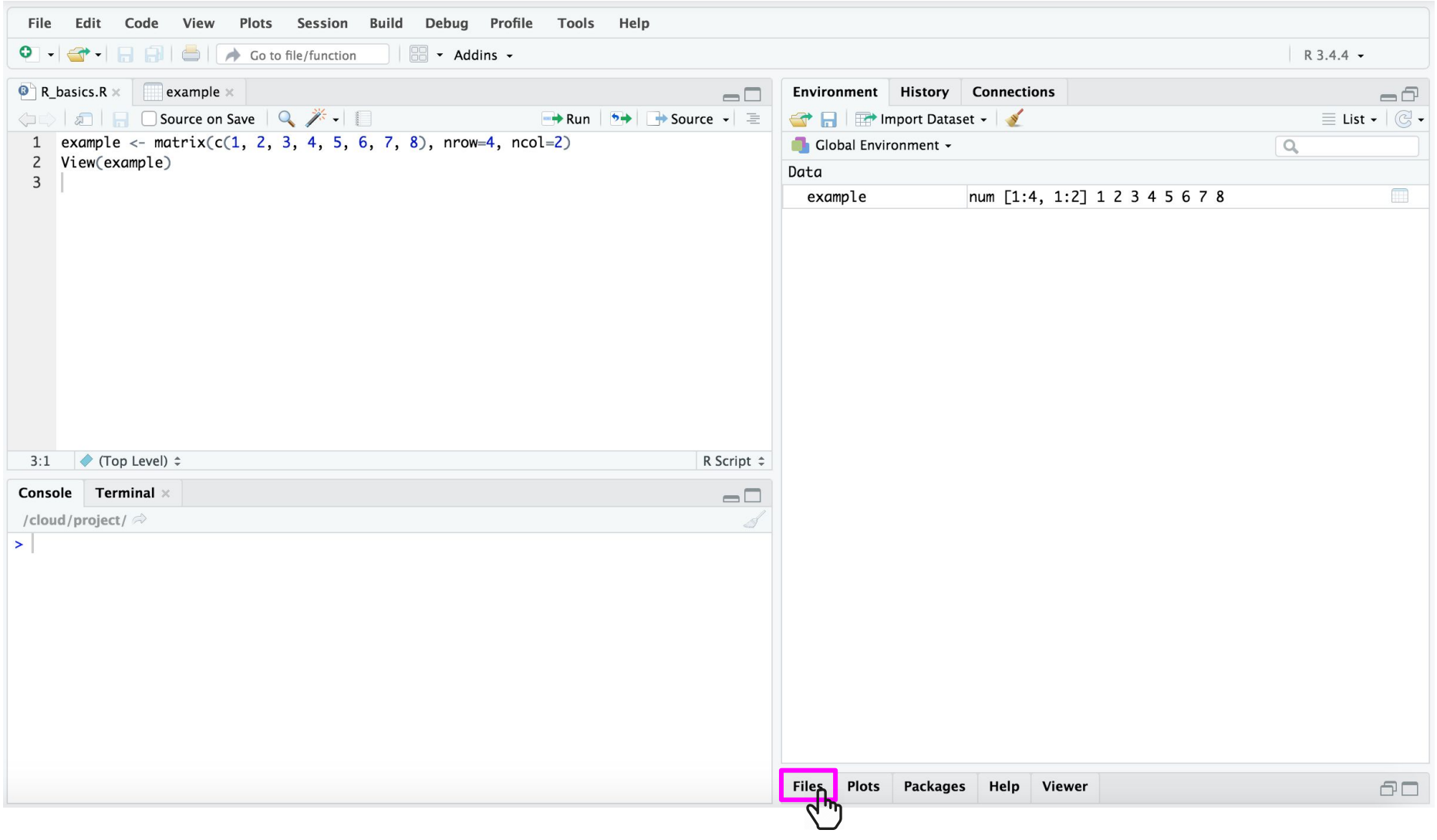

File Edit Code View Plots Session Build Debug Profile Tools Help
Go to file/function
Addins
R 3.4.4
Untitled1*
example
Source on Save
Run
Source
1 example <- matrix(c(1, 2, 3, 4, 5, 6, 7, 8), nrow=4, ncol=2)
2 View(example)
3
3:1 (Top Level)
Console
Terminal
/cloud/project/
>
Environment
History
Connections
To Console
To Source
1+1
4, 5, 6, 7, 8), nrow=4, ncol=2)
Files
Plots
Packages
Help
Viewer
Save File - Untitled1
File name:
/ cloud project
..
.Rhistory 0 B May 14, 2018, 2:16 PM
project.Rproj 205 B May 14, 2018, 2:16 PM
New Folder
Save
Cancel


Save File – Untitled1
File name:
/ cloud project
..
.Rhistory 0 B May 14, 2018, 2:16 PM
project.Rproj 205 B May 14, 2018, 2:16 PM
New Folder
Folder name
OK
Cancel
New Folder
Save
Cancel


Save File – Untitled1
File name:
/ cloud project
..
.Rhistory 0 B May 14, 2018, 2:16 PM
project.Rproj 205 B May 14, 2018, 2:16 PM
New Folder
Folder name
code
OK
Cancel
New Folder
Save
Cancel


Save File – Untitled1
File name:
/ cloud project code
..
New Folder
Folder name
raw_code
OK
Cancel
New Folder
Save
Cancel


Save File - Untitled1
File name: R_basics.R
/ cloud project code raw_code
..
New Folder
Save
Cancel


File Edit Code View Plots Session Build Debug Profile Tools Help
Go to file/function
Addins
R 3.4.4
R_basics.R
example
Source on Save
Run
Source
1 example <- matrix(c(1, 2, 3, 4, 5, 6, 7, 8), nrow=4, ncol=2)
2 View(example)
3
3:1
(Top Level)
R Script
Console
Terminal
/cloud/project/
>
Environment
History
Connections
Import Dataset
List
Global Environment
Data
example
num [1:4, 1:2] 1 2 3 4 5 6 7 8
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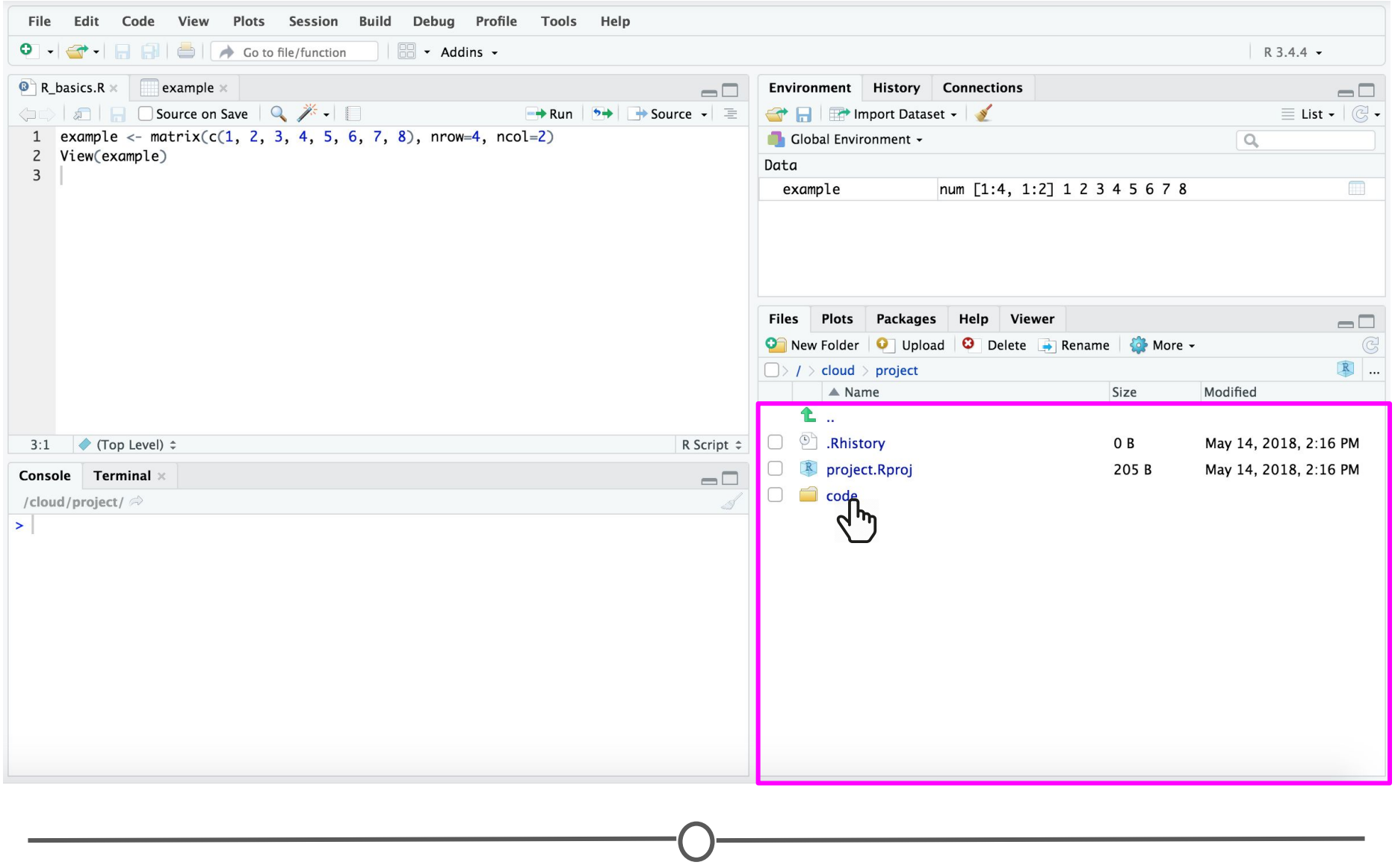
Viewer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R_basics.R
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1 example <- matrix(c(1, 2, 3, 4, 5, 6, 7, 8), nrow=4, ncol=2)
2 View(example)
3
3:1
(Top Level)
R Script
Console
Terminal
/cloud/project/
>
Environment
History
Connections
Import Dataset
List
Global Environment
Data
example
num [1:4, 1:2] 1 2 3 4 5 6 7 8
Files
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Rename
More
/ cloud project
Name
Size
Modified
..
.Rhistory
0 B
May 14, 2018, 2:16 PM
project.Rproj
205 B
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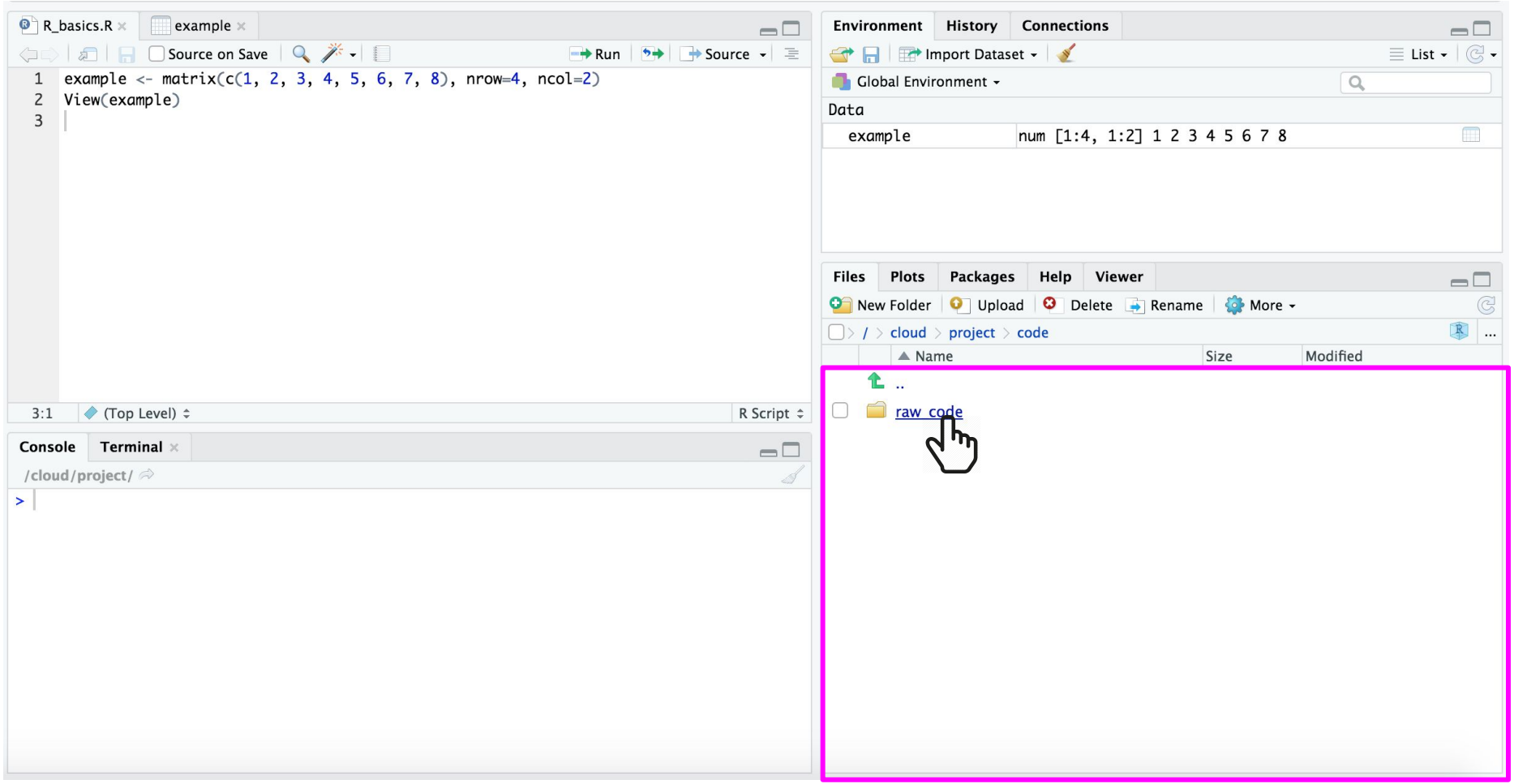
code


R_basics.R
example
Source on Save
Run
Source
1 example <- matrix(c(1, 2, 3, 4, 5, 6, 7, 8), nrow=4, ncol=2)
2 View(example)
3
3:1
(Top Level)
R Script
Console
Terminal
/cloud/project/
>
Environment
History
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Import Dataset
List
Global Environment
Data
example
num [1:4, 1:2] 1 2 3 4 5 6 7 8
Files
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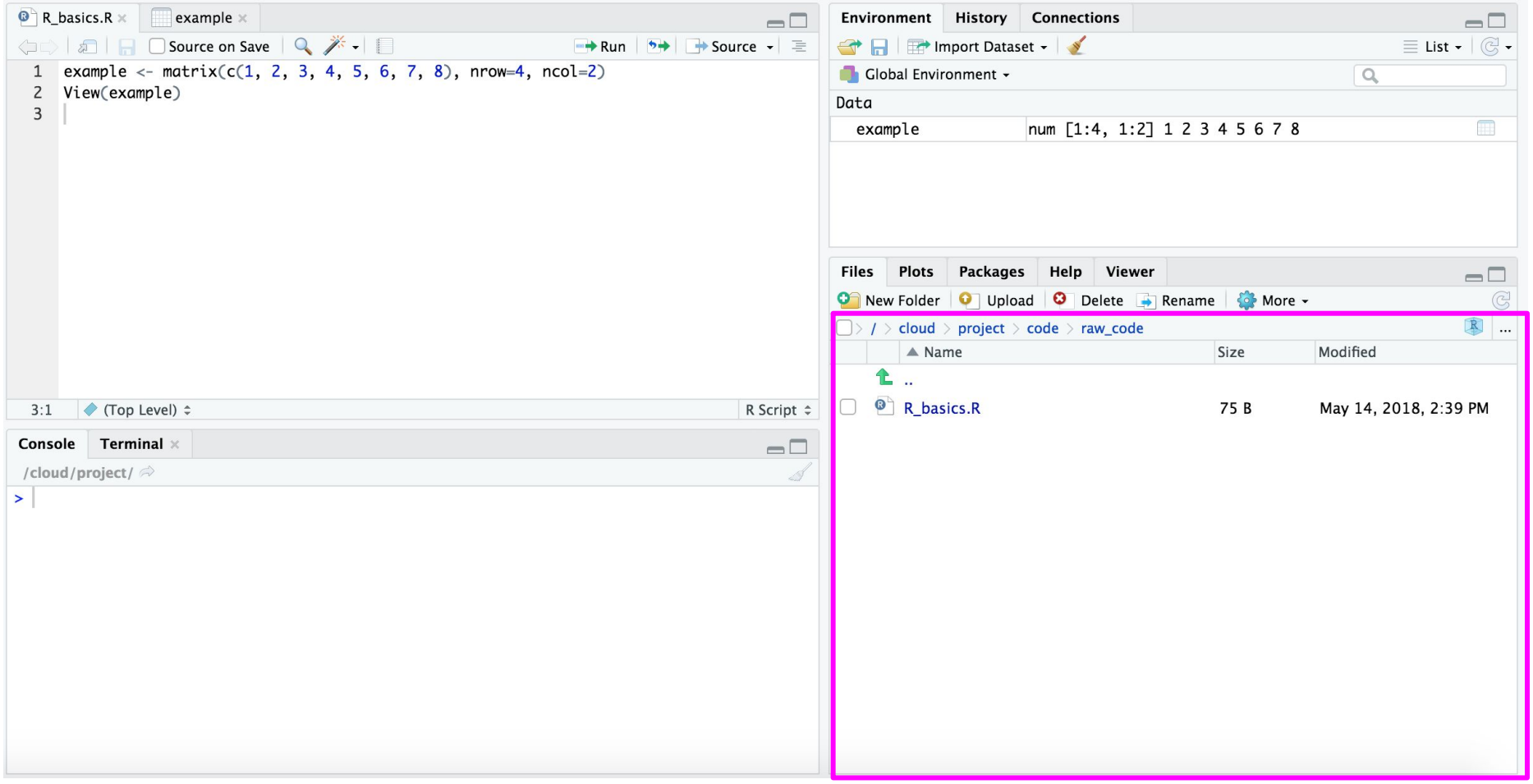
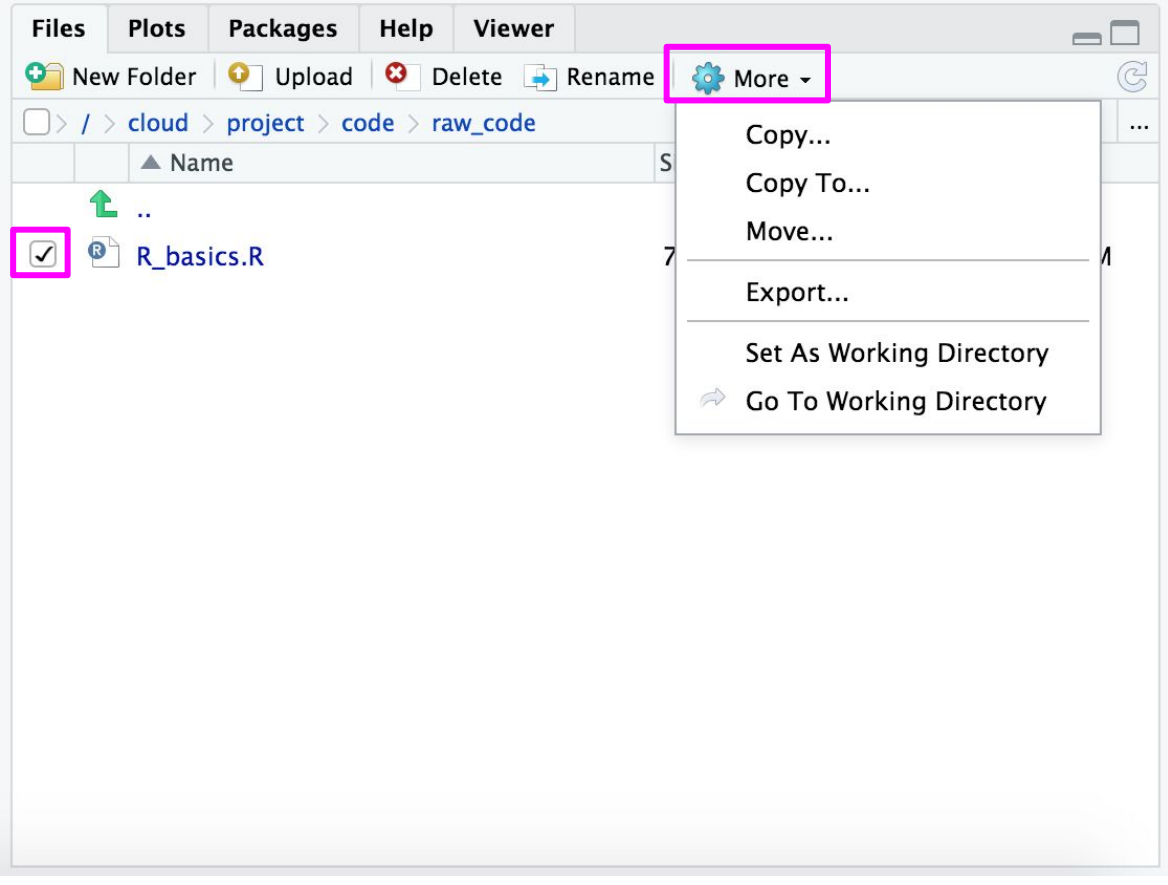
Packages
Help
Viewer
New Folder
Upload
Delete
Rename
More
/ cloud project code
Name
Size
Modified
..
raw_code


R_basics.R
example
Source on Save
Run
Source
1 example <- matrix(c(1, 2, 3, 4, 5, 6, 7, 8), nrow=4, ncol=2)
2 View(example)
3
3:1
(Top Level)
R Script
Console
Terminal
/cloud/project/
>
Environment
History
Connections
Import Dataset
List
Global Environment
Data
example
num [1:4, 1:2] 1 2 3 4 5 6 7 8
Files
Plots
Packages
Help
Viewer
New Folder
Upload
Delete
Rename
More
/ cloud project code raw_code
Name
Size
Modified
..
R_basics.R
75 B
May 14, 2018, 2:39 PM


Files
Plots
Packages
Help
Viewer
New Folder
Upload
Delete
Rename
More
/ cloud project code raw_code
Name
..
R_basics.R
Copy...
Copy To...
Move...
Export...
Set As Working Directory
Go To Working Directory

R_basics.R* | example

Source on Save | Run | Source

```
1  example <- matrix(c(1, 2, 3, 4, 5, 6, 7, 8), nrow=4, ncol=2)
2  View(example)
3
4  plot(wt ~ mpg, data=mtcars)
5
```

5:1 (Top Level) R Script

Running the code sends it to the console

Console | Terminal

/cloud/project/

```
> example <- matrix(c(1, 2, 3, 4, 5, 6, 7, 8), nrow=4, ncol=2)
> plot(wt ~ mpg, data=mtcars)
>
```

The plot() function generates a plot.

Environment | History | Connections

Import Dataset | List

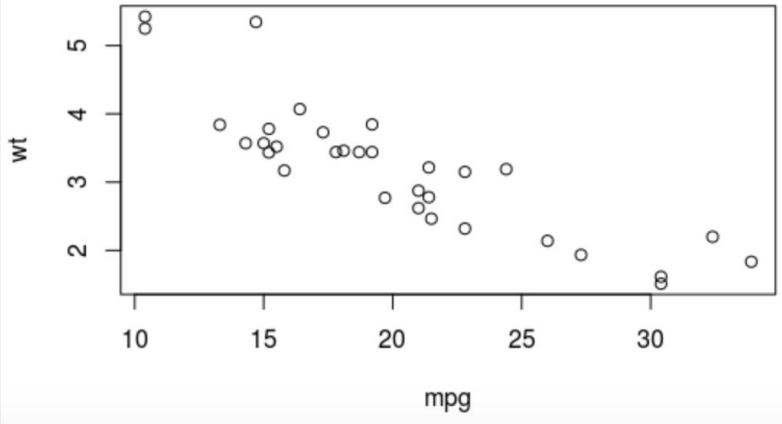
Global Environment

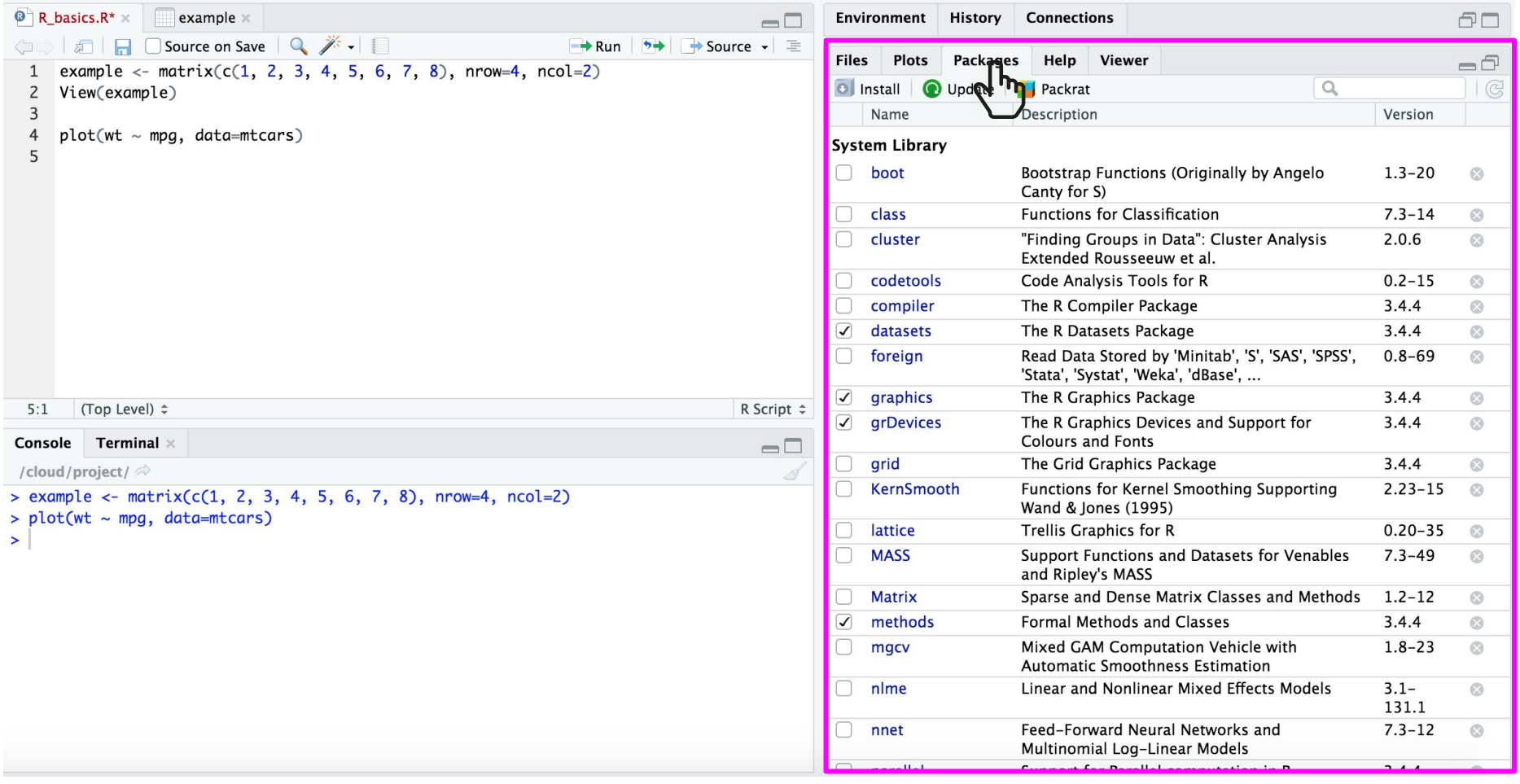
Data

example	num [1:4, 1:2] 1 2 3 4 5 6 7 8

Files | Plots | Packages | Help | Viewer

Zoom | Export | Publish




R_basics.R*
example
Source on Save
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Source
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Console
Terminal
/cloud/project/
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"Finding Groups in Data": Cluster Analysis Extended Rousseeuw et al.
2.0.6
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1.8-23
nlme
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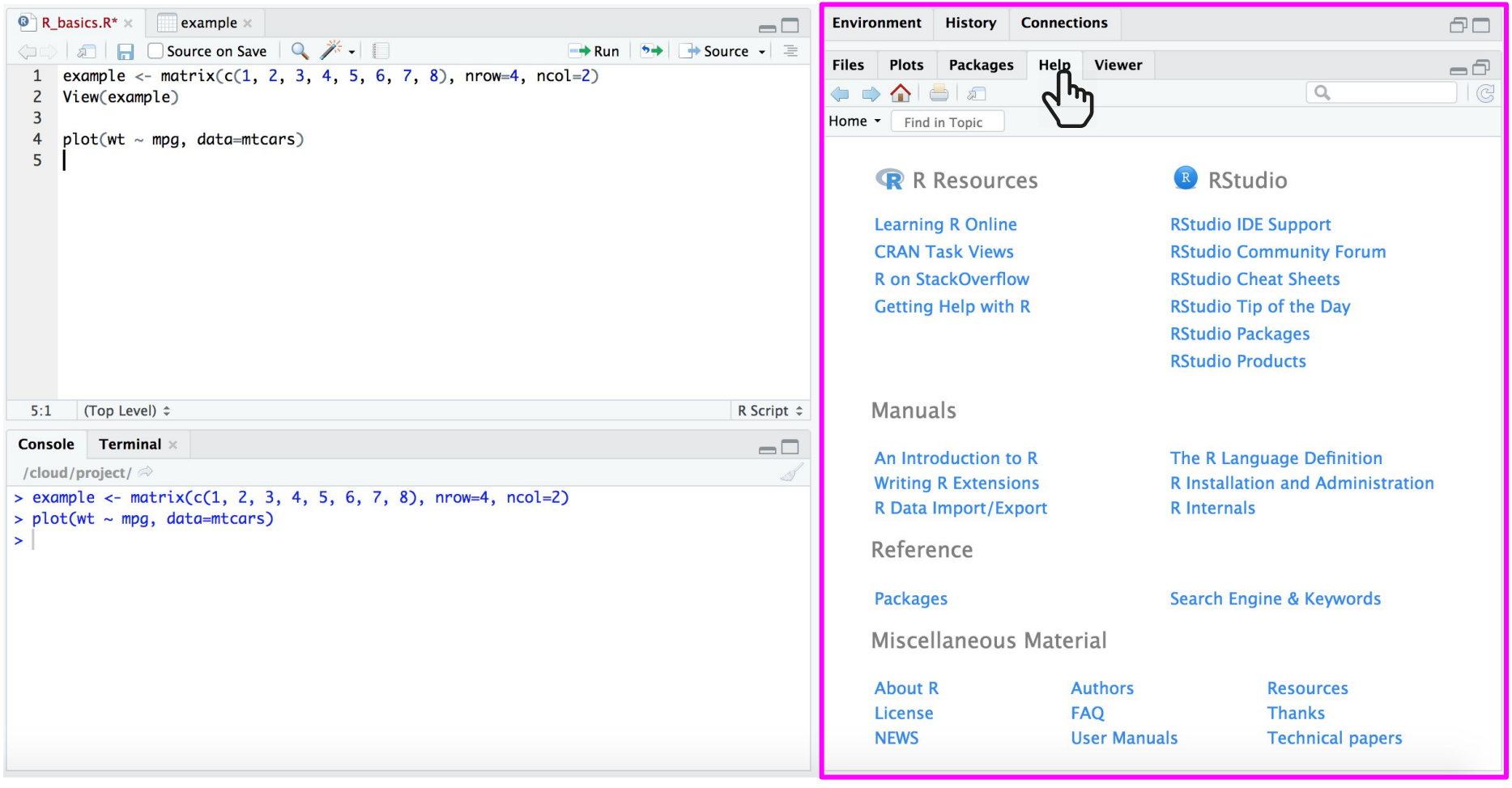
3.1-131.1
nnet
Feed-Forward Neural Networks and Multinomial Log-Linear Models
7.3-12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Resources
Thanks
Technical papers

R
Studio Cloud