



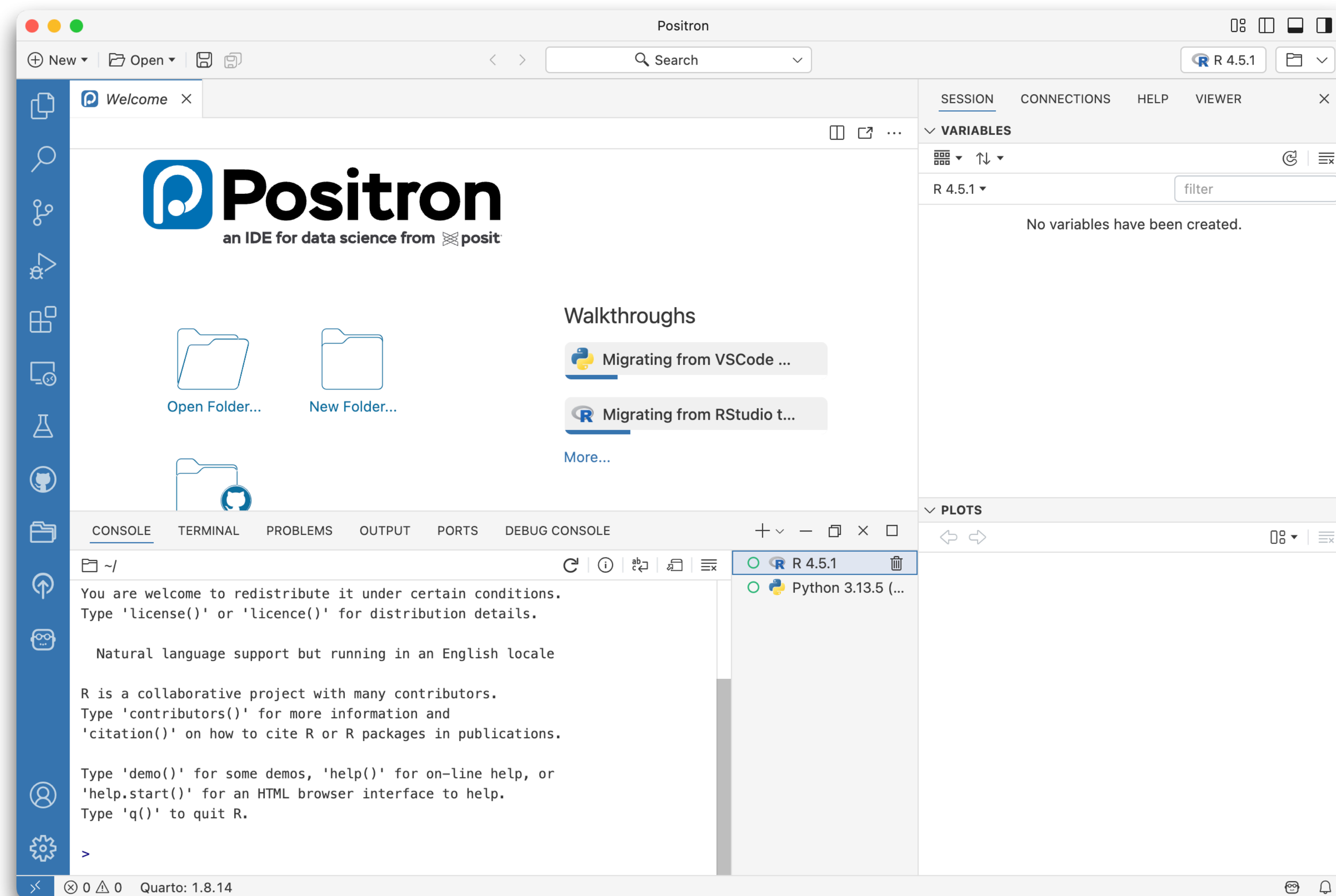
Exploring Positron

Part of "Doing data science in Positron" workshop

Posit Software, PBC



You should be here

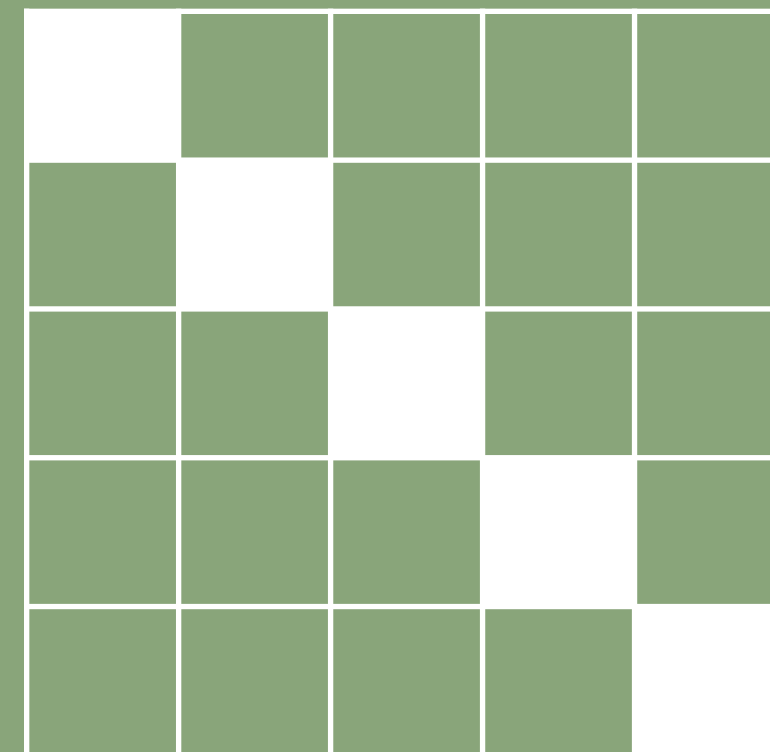
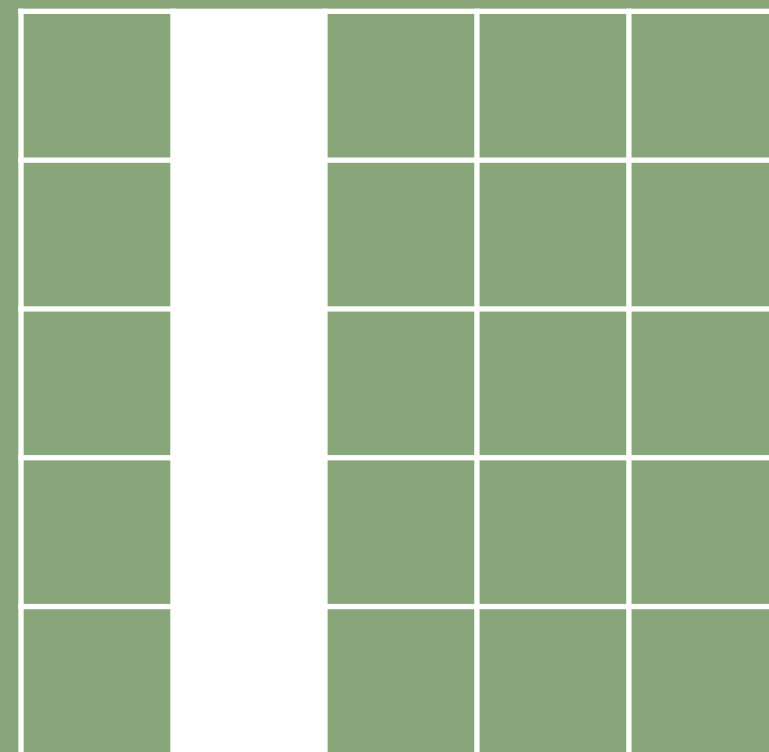
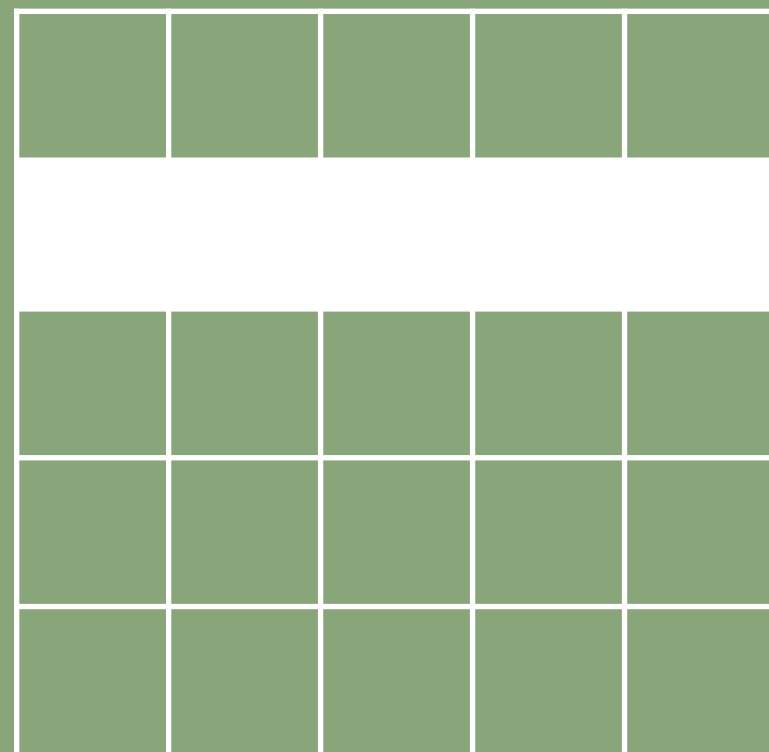


Your turn

Positron Bingo!

10_m 00_s

- Your "bingo" card has things for you to **find**
 - **Data Explorer** cells: first run `View(mtcars)` in the Console
- Complete 5 in a line and call out "BINGO!"

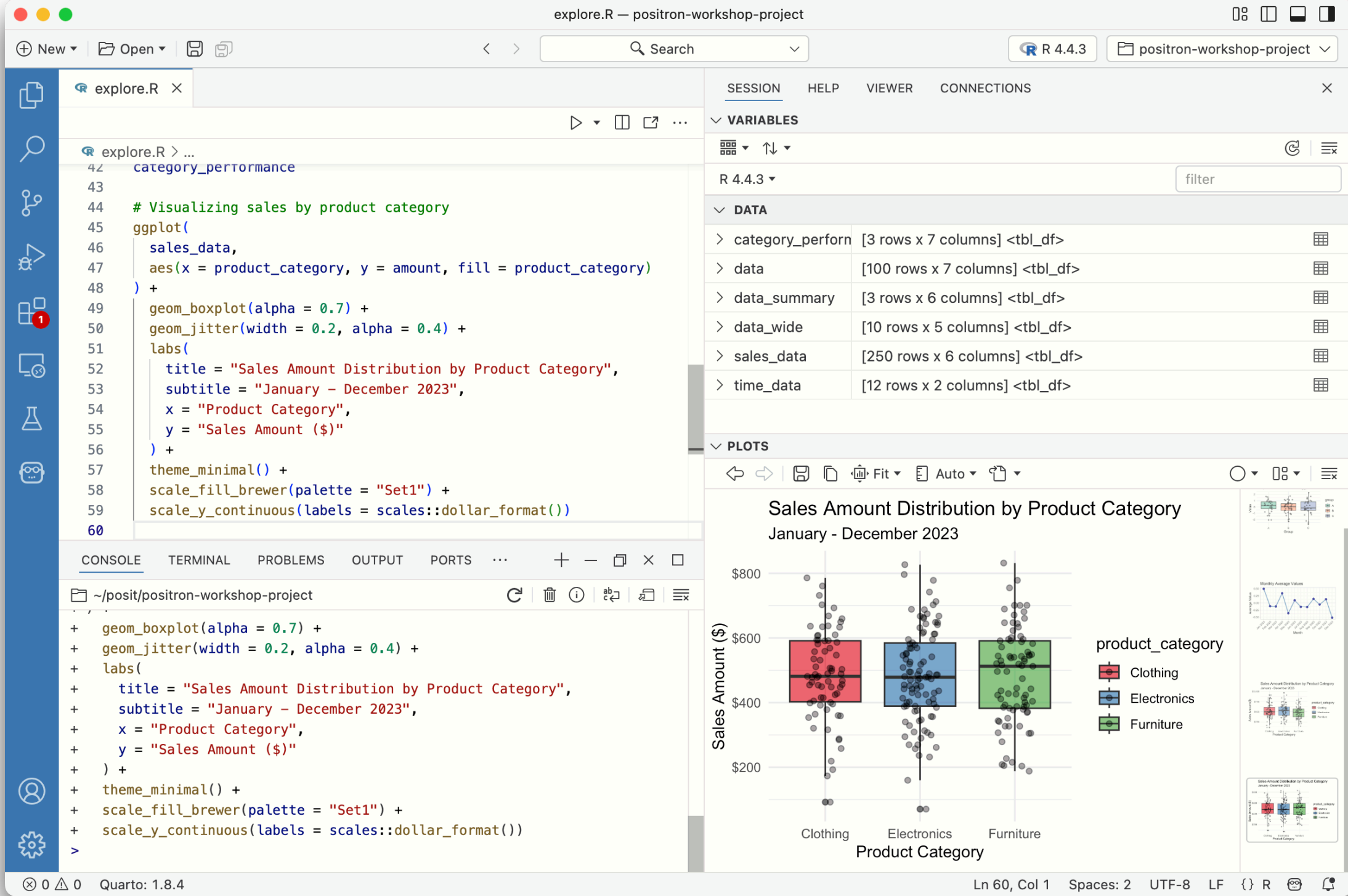
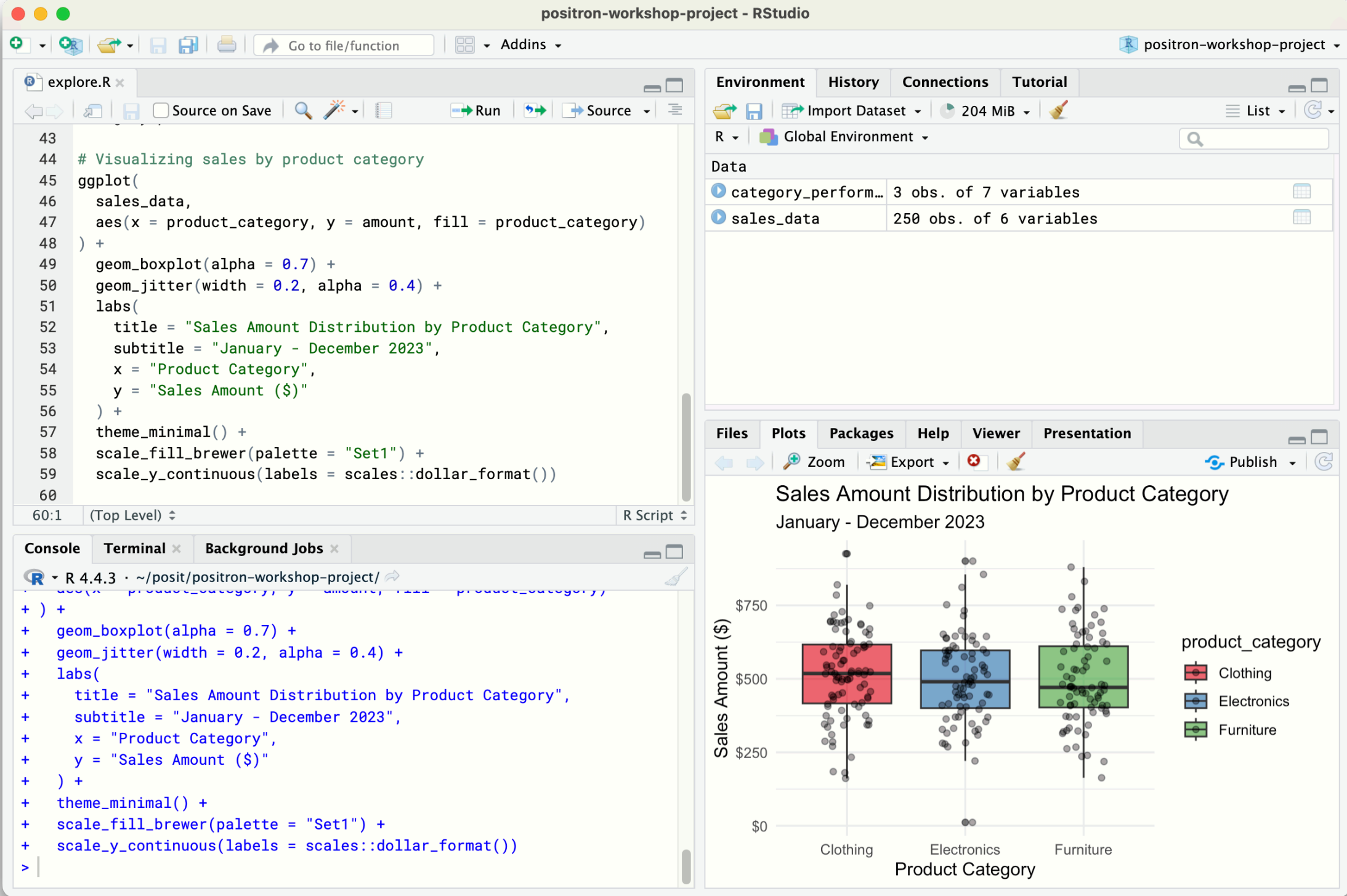


Your turn

Example Card

A way to see and edit two files side by side	The shortcut to send R code to the Console	Another way to open the Command Palette	A way to open a specific file by its name	Data Explorer: the number of cars where cyl is 4
A terminal, i.e. "a shell"	The shortcut to insert "<-"	The button that opens your console history	The button that saves a plot	A way to open a new Positron window
How to change the IDE theme	The "Find and Replace" dialog box	FREE	An RStudio pane that isn't in Positron	How to change the IDE zoom level
Where Git information and actions live	The setting that enables RStudio shortcuts	The button to restart the R Console	A way to open a new R script file	A prompt to "Open a folder"
The version of R running in the Console	The current working directory of the Console	A way to start another Console	The version of Positron you're running	The shortcut for "Help: Show help at cursor"

What's the same?





```
43  
44 # Visualizing sales by product category  
45 ggplot(  
46   sales_data,  
47   aes(x = product_category, y = amount, fill = product_category)  
48 ) +  
49   geom_boxplot(alpha = 0.7) +  
50   geom_jitter(width = 0.2, alpha = 0.4) +  
51   labs(  
52     title = "Sales Amount Distribution by Product Category",  
53     subtitle = "January - December 2023",  
54     x = "Product Category",  
55     y = "Sales Amount ($)"  
56 ) +  
57   theme_minimal() +  
58   scale_fill_brewer(palette = "Set1") +  
59   scale_y_continuous(labels = scales::dollar_format())  
60
```

Environment

History

Connections

Tutorial

R

Global Environment

Data

category_perform... 3 obs. of 7 variables

sales_data 250 obs. of 6 variables

Files

Plots

Packages

Help

Viewer


Presentation

Zoom

Export

Publish

Sales Amount Distribution by Product Category
January - December 2023



Run

Write

Understand



```
42 explore.R > ...  
43 category_performance  
44 # Visualizing sales by product category  
45 ggplot(  
46   sales_data,  
47   aes(x = product_category, y = amount, fill = product_category)  
48 ) +  
49   geom_boxplot(alpha = 0.7) +  
50   geom_jitter(width = 0.2, alpha = 0.4) +  
51   labs(  
52     title = "Sales Amount Distribution by Product Category",  
53     subtitle = "January - December 2023",  
54     x = "Product Category",  
55     y = "Sales Amount ($)"  
56 ) +  
57   theme_minimal() +  
58   scale_fill_brewer(palette = "Set1") +  
59   scale_y_continuous(labels = scales::dollar_format())  
60
```

SESSION

HELP

VIEWER

CONNECTIONS

VARIABLES

4.4.3

filter

DATA

category_perform [3 rows x 7 columns] <tbl_df>

data [100 rows x 7 columns] <tbl_df>

data_summary [3 rows x 6 columns] <tbl_df>

data_wide [10 rows x 5 columns] <tbl_df>

sales_data [250 rows x 6 columns] <tbl_df>

time_data [12 rows x 2 columns] <tbl_df>

CONSOLE

TERMINAL

PROBLEMS

OUTPUT

PORTS

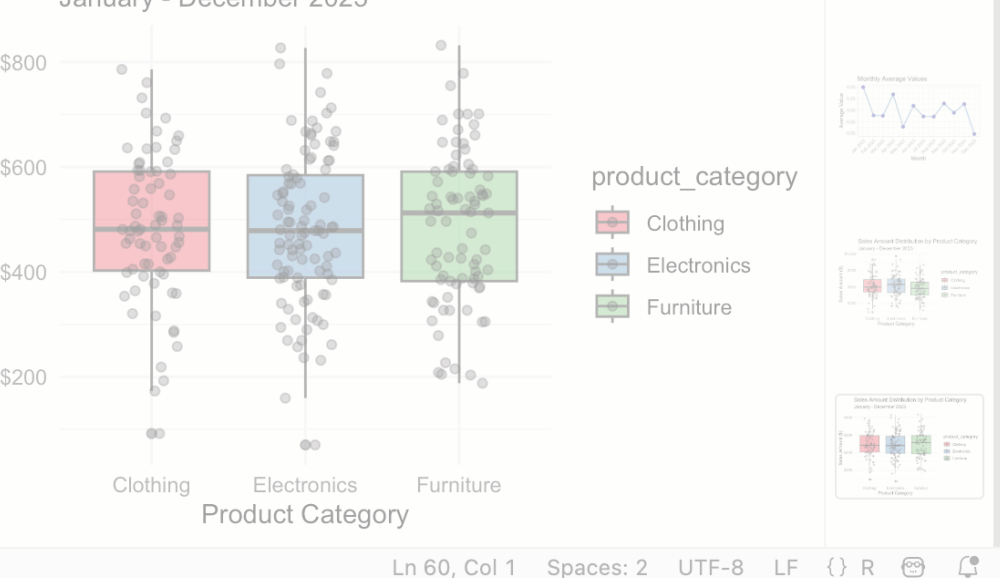
~/posit/positron-workshop-project

+ geom_boxplot(alpha = 0.7) +

+ geom_jitter(width = 0.2, alpha = 0.4) +

+ labs(
+ title = "Sales Amount Distribution by Product Category",
+ subtitle = "January - December 2023",
+ x = "Product Category",
+ y = "Sales Amount (\$)"
+) +
+ theme_minimal() +
+ scale_fill_brewer(palette = "Set1") +
+ scale_y_continuous(labels = scales::dollar_format())
+>

Sales Amount Distribution by Product Category
January - December 2023



Run

Write

Understand

Primary side bar

Editor

Activity bar

Secondary side bar

hello.qmd — positron-workshop

New Open

Search

R 4.4.2 positron-workshop

EXPLORER

OPEN EDITORS

POSITRON-WORKSHOP

modules

slides

brand.yml

license.md

quarto.yml

.gitignore

caskdr.qmd

hello.qmd

index.qmd

LICENSE.md

positron-workshop...

raukr.qmd

README.md

setup.qmd

uscots.qmd

OUTLINE

TIMELINE

raukr.qmd

setup.qmd

01-hello-positron.qmd

hello.qmd

Preview Render on Save Source Visual

hello.qmd

Normal

14) +

15 theme_minimal()

Let's create some objects.

{r}

1 adelic_penguins <- penguins |>

2 filter(species == "Adelie")

3

4 penguin_stats <- penguins |>

5 group_by(species) |>

CONSOLE

~/rrr/positron-workshop

> adelic_penguins <- penguins >

+ filter(species = "Adelie")

+>

+ penguin_stats <- penguins >

+ group_by(species) >

+ summarize(

+ avg_bill_length = mean(bill_length_mm, na.rm = TRUE),

+ avg_flipper_length = mean(flipper_length_mm, na.rm = TRUE),

+ count = n()

+)

+>

+ heavy_penguins <- penguins >

+ filter(body_mass_g > 5000) >

+ select(species, island, sex, body_mass_g, flipper_length_mm)

>

>

>

>

>

>

main 0↓ 1↑ 0 0 0 Quarto: 1.7.31

SESSION CONNECTIONS HELP VIEWER

VARIABLES

R 4.4.2

filter

DATA

> adelic_penguins [152 rows x 8 columns] <tbl_df>

> heavy_penguins [61 rows x 5 columns] <tbl_df>

> penguin_stats [3 rows x 4 columns] <tbl_df>

> species "Adelie " "Chinstrap" "Gentoo" fct(3) [3]

> avg_bill_length 38.79139072847682 48.8338... dbl [3]

> avg_flipper_length 189.95364238410596 195.82... dbl [3]

> count 152 68 124 int [3]

PLOTS

Flipper and bill length

Dimensions for penguins at Palmer Station LTER

Bill length (mm)

Flipper length (mm)

Penguin species

Adelie

Chinstrap

Gentoo

Panel

Use your RStudio muscle memory

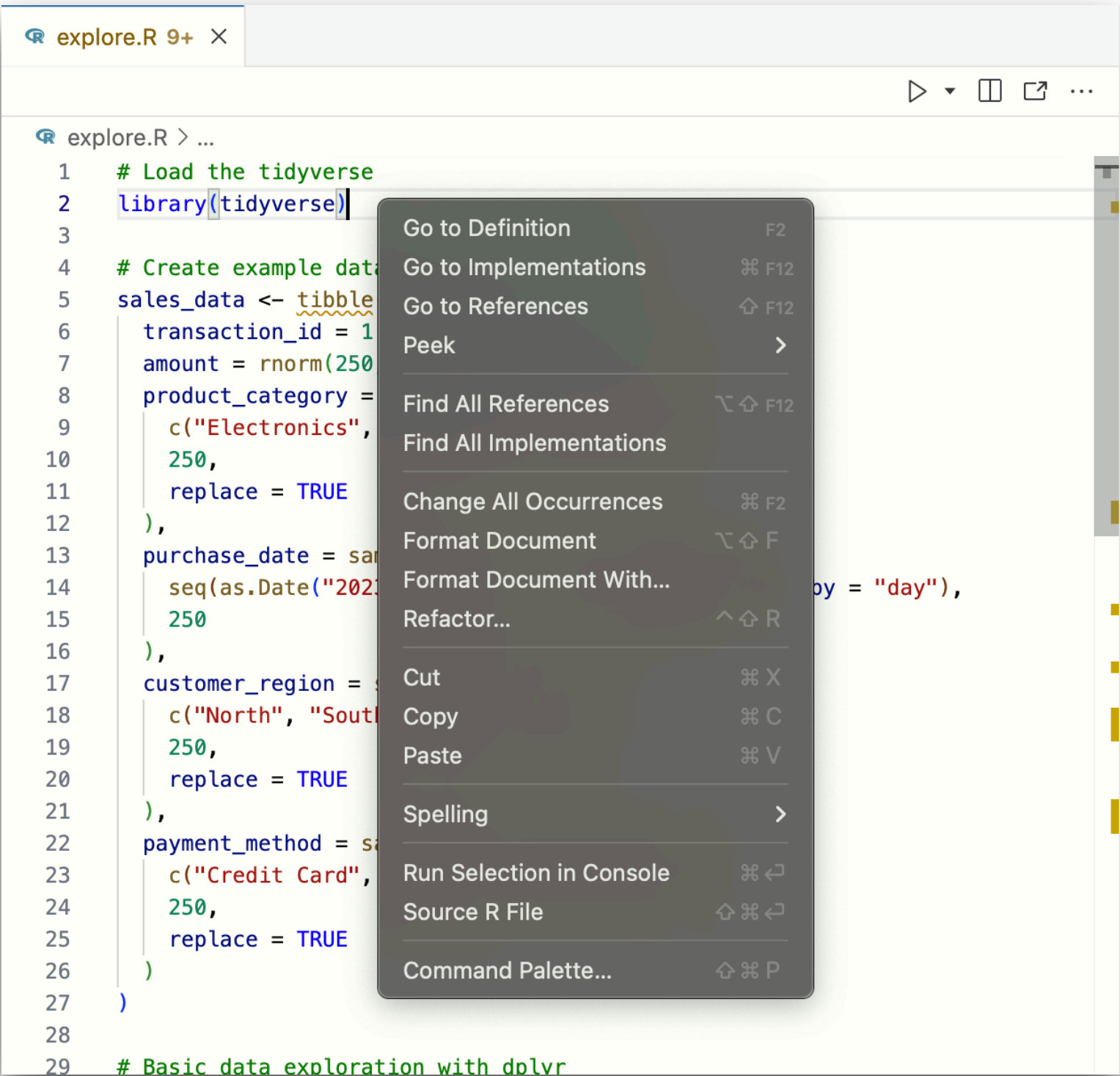
- New R File*: Cmd/Ctrl + Shift + N
- Send Code to Console: Cmd/Ctrl + Enter
- Get Help at Cursor: F1
- Find: Cmd/Ctrl + F
- Find in Files: Cmd/Ctrl + Shift + F
- Restart R: Cmd/Ctrl + Shift + 0
- Navigate Console History: Cmd/Ctrl + ↑
- Completion: Tab

*Enable Setting: [RStudio Keybindings](#)

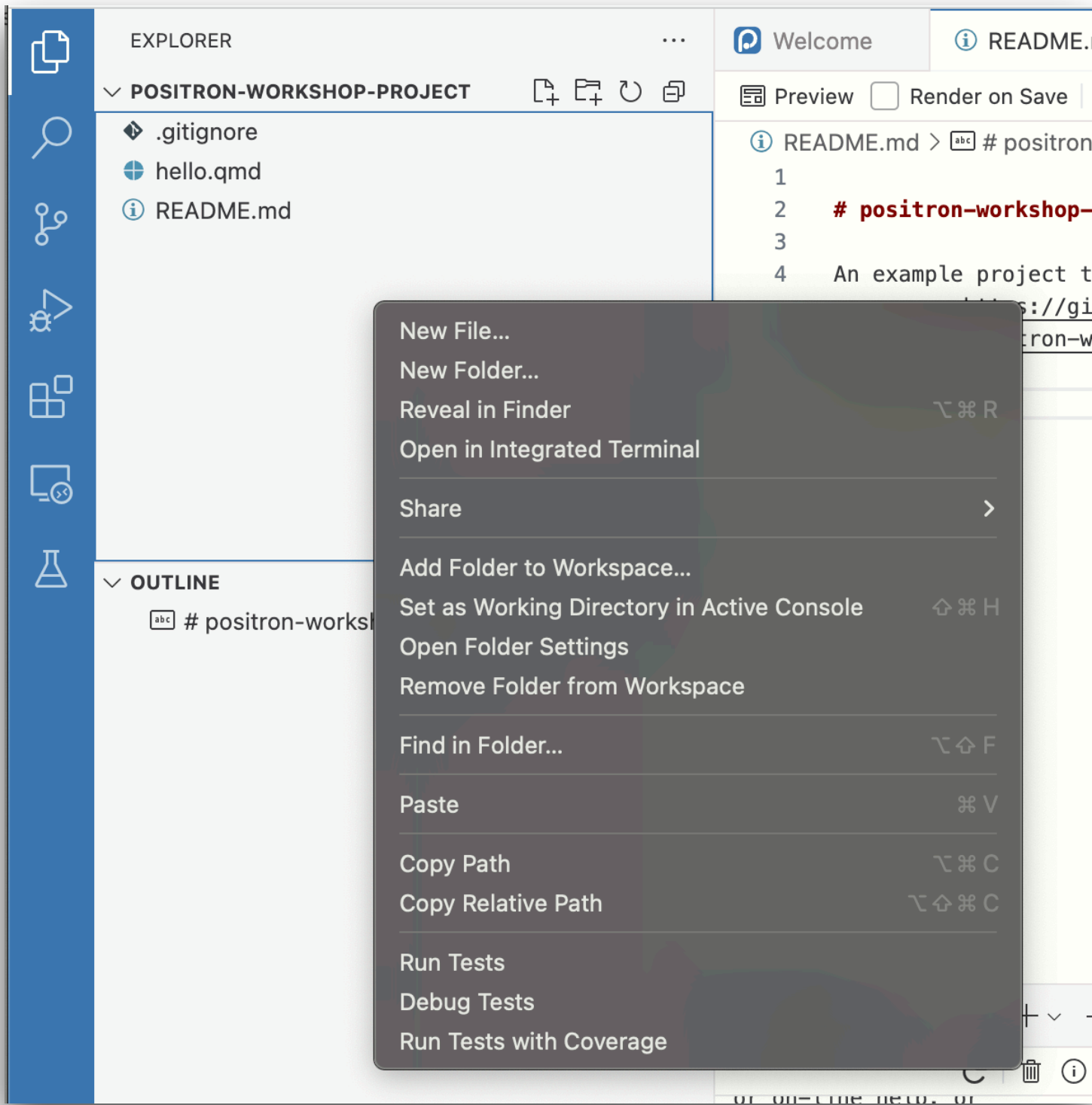
What's different?

Less menus, more right-click

Editor



(File) Explorer



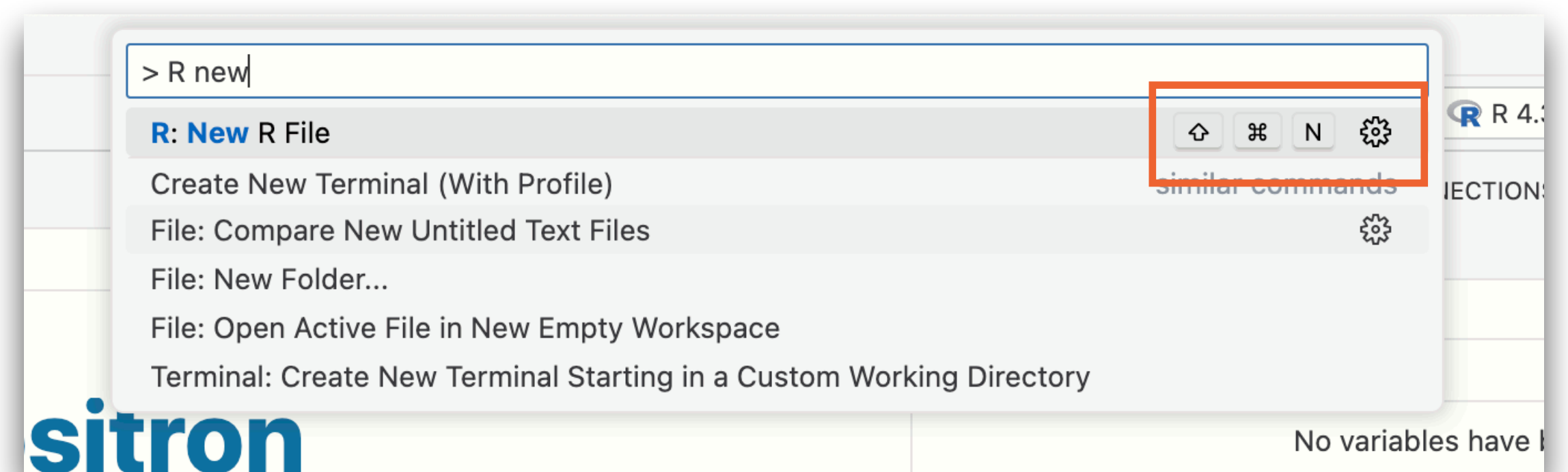
Less clicks, more command palette

Almost everything in a menu or button has a command

Menu: **File > New File > R File**

Command: **R: New R File**

Any command can be given a shortcut



Rest of our time

- Organization
- Quarto
- R
- Customization
- Beyond