

Customization + extensibility

Part of the "Getting Started with Positron" workshop



Settings

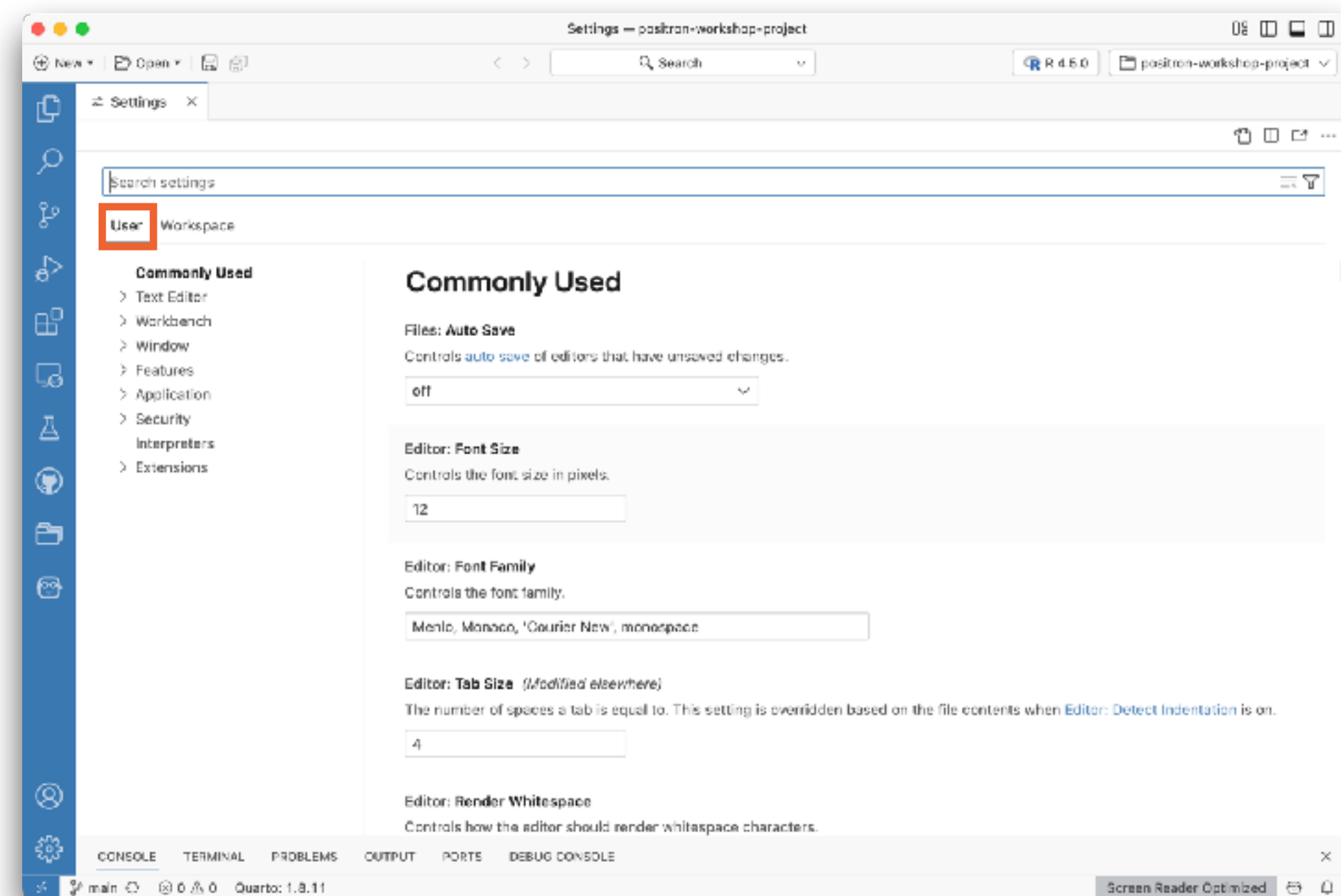
Settings

- Nearly every part of Positron's editor, user interface, and functional behavior has customizable options.
- Settings can be customized at two different scopes:
 - **User settings:** Settings that apply globally to any instance of Positron you open.
 - **Workspace settings:** Settings stored inside your workspace (folder) and only apply when the workspace is opened.
- Positron stores setting values in a `settings.json` file.
- Settings can be changed by:
 - editing the settings JSON file or
 - using the Settings editor interface

Updating user settings

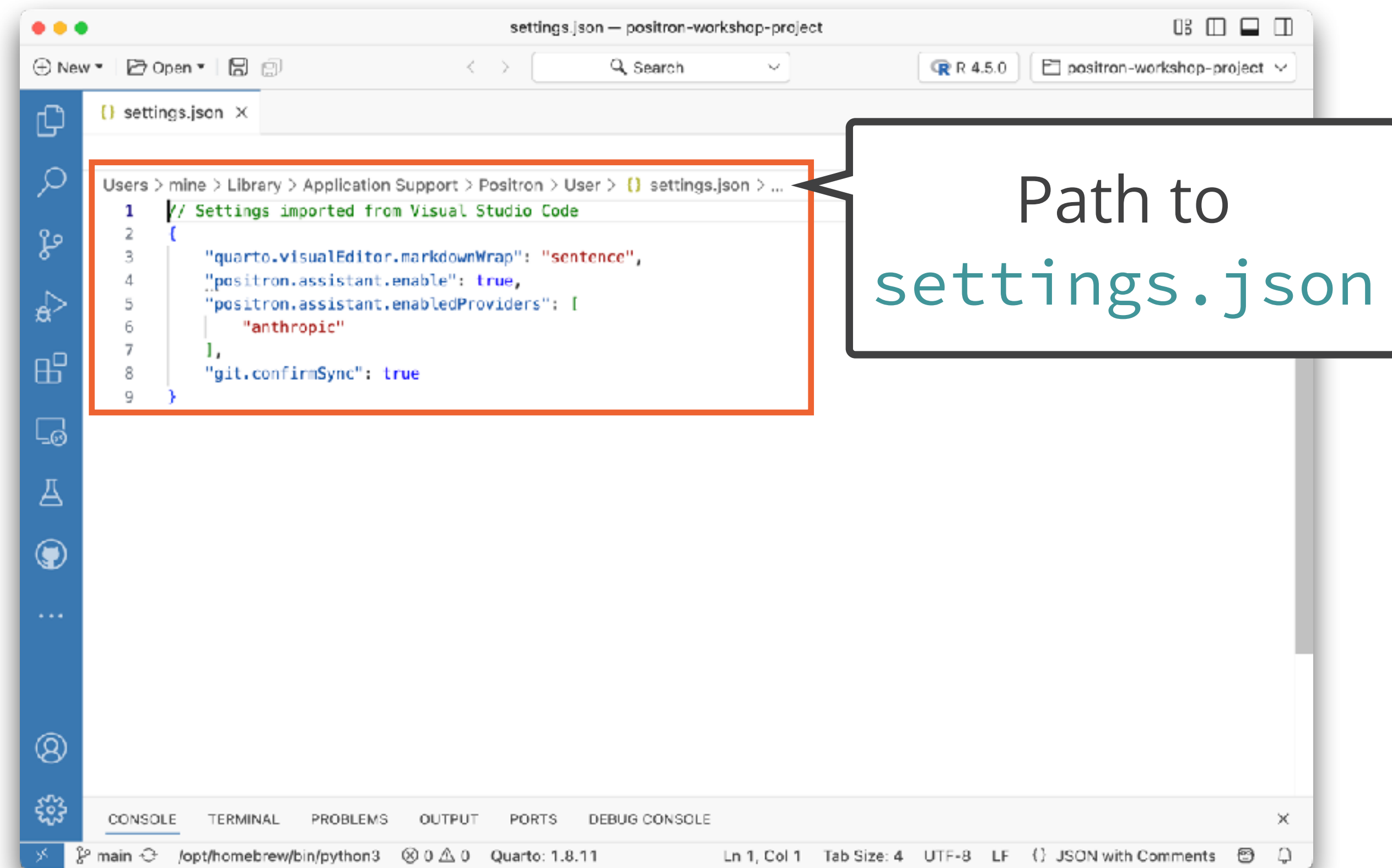
To update using the UI:

- In the Command Palette:
Preferences: Open User Settings
- In the top menu:
Positron > Settings... > Settings



To edit the JSON file:

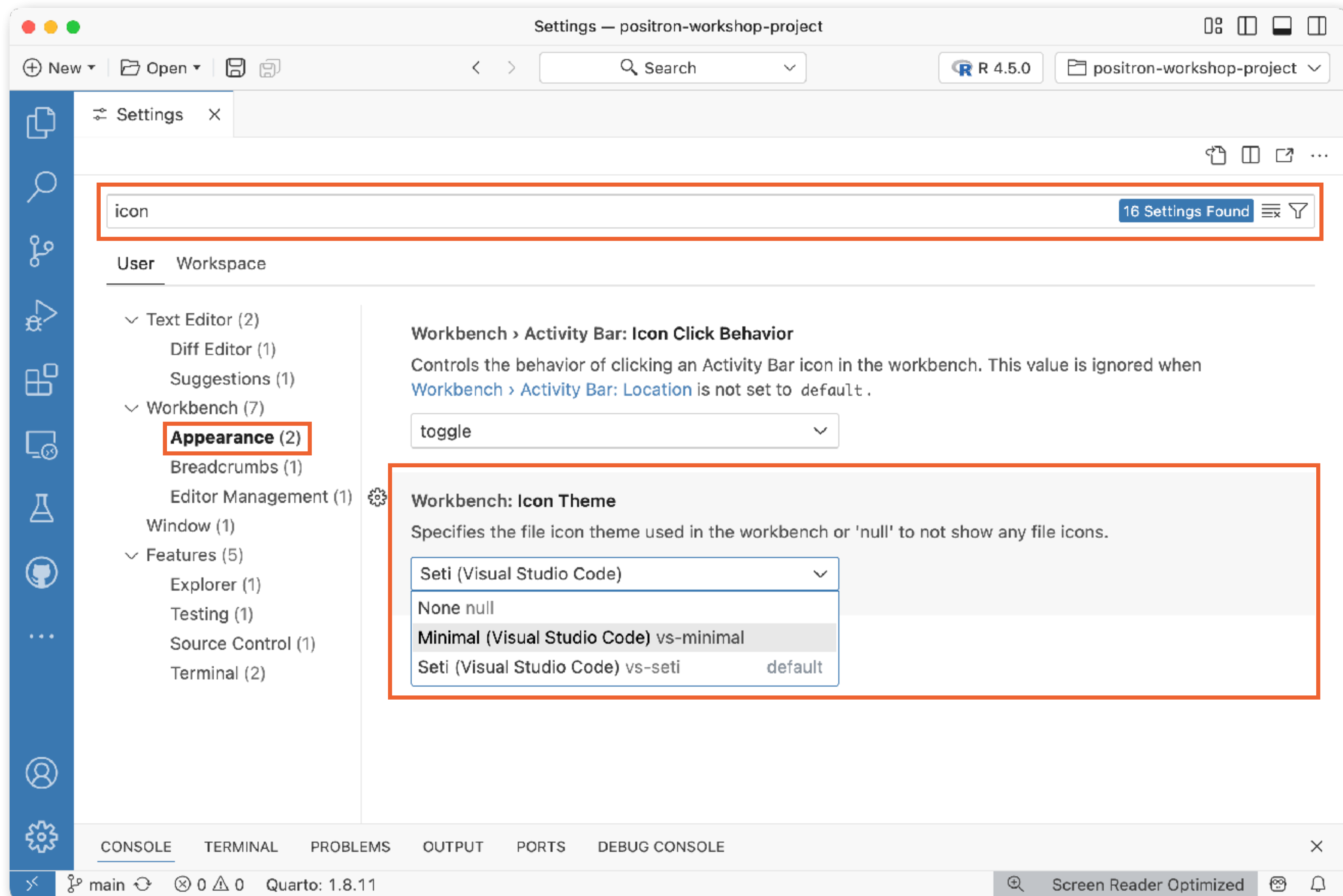
In the Command Palette:
Preferences: Open User Settings (JSON)

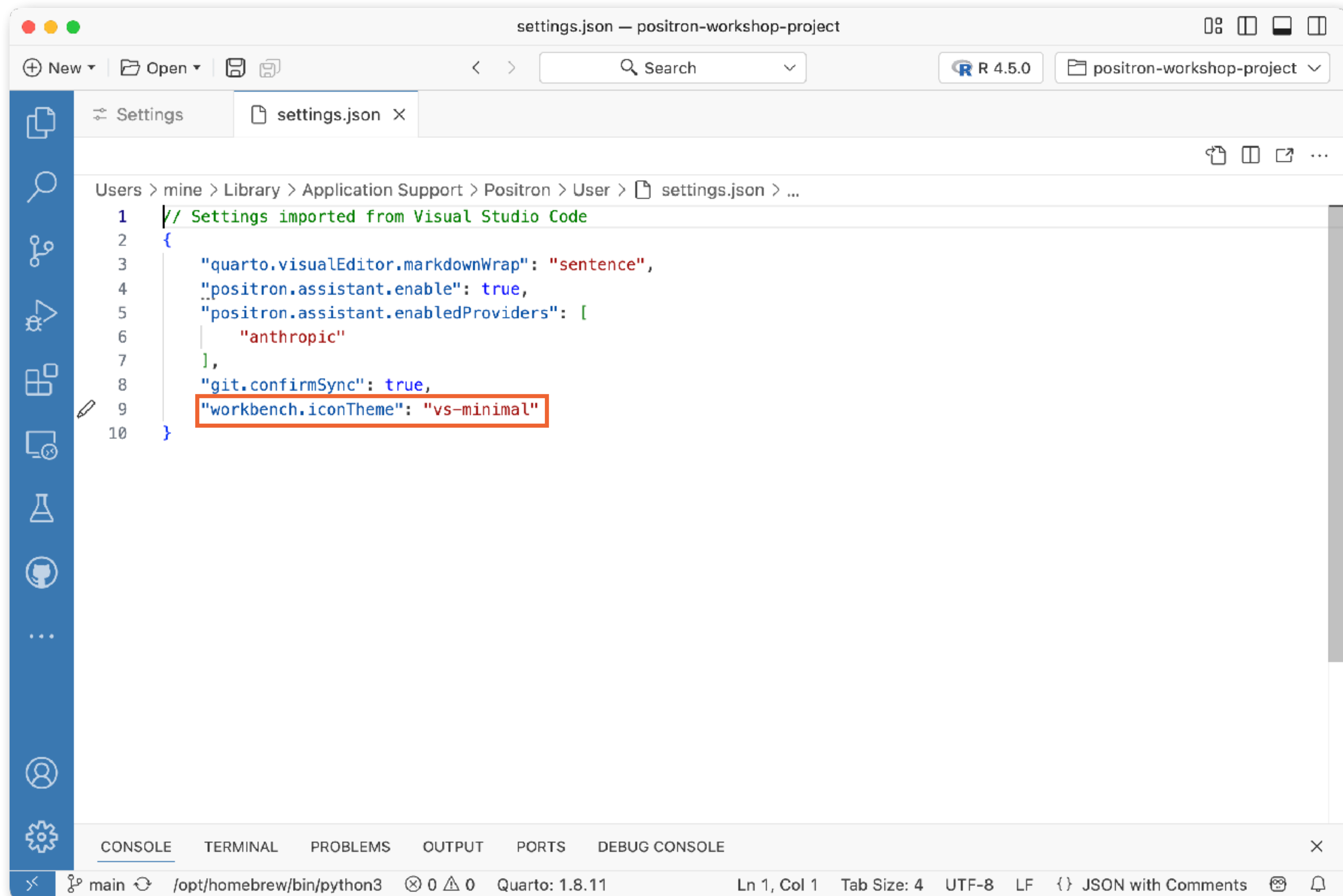


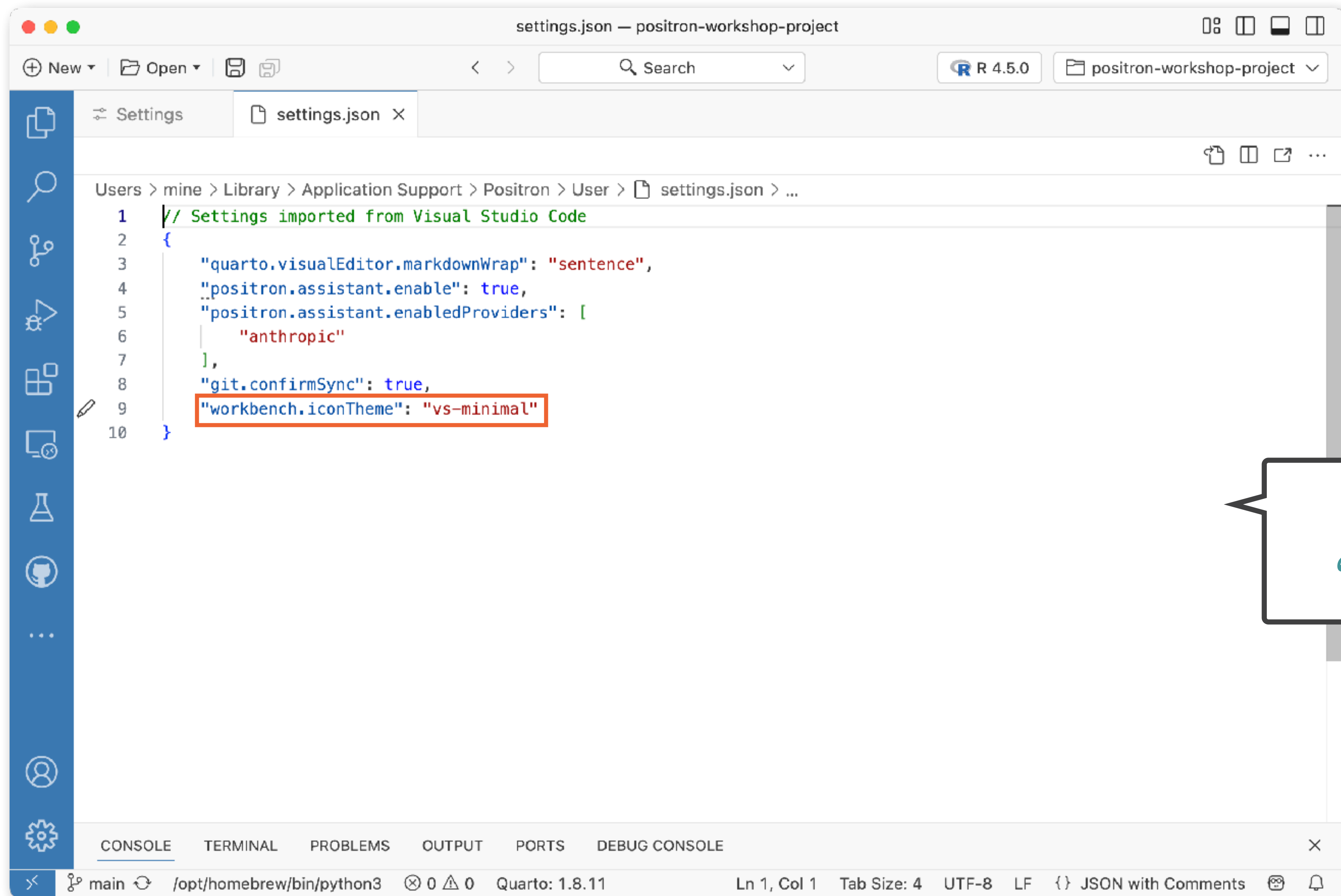
Your turn

Customize user settings

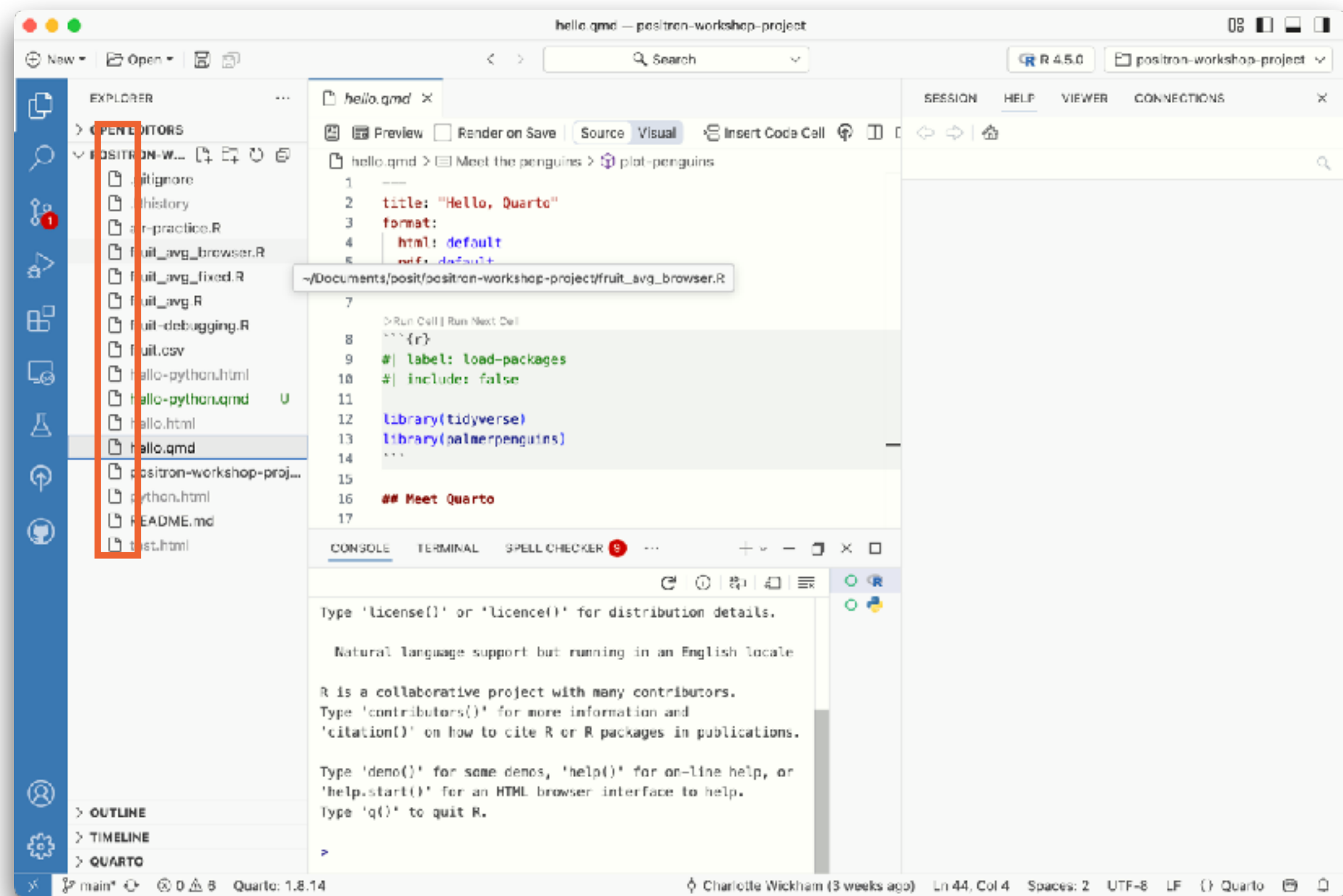
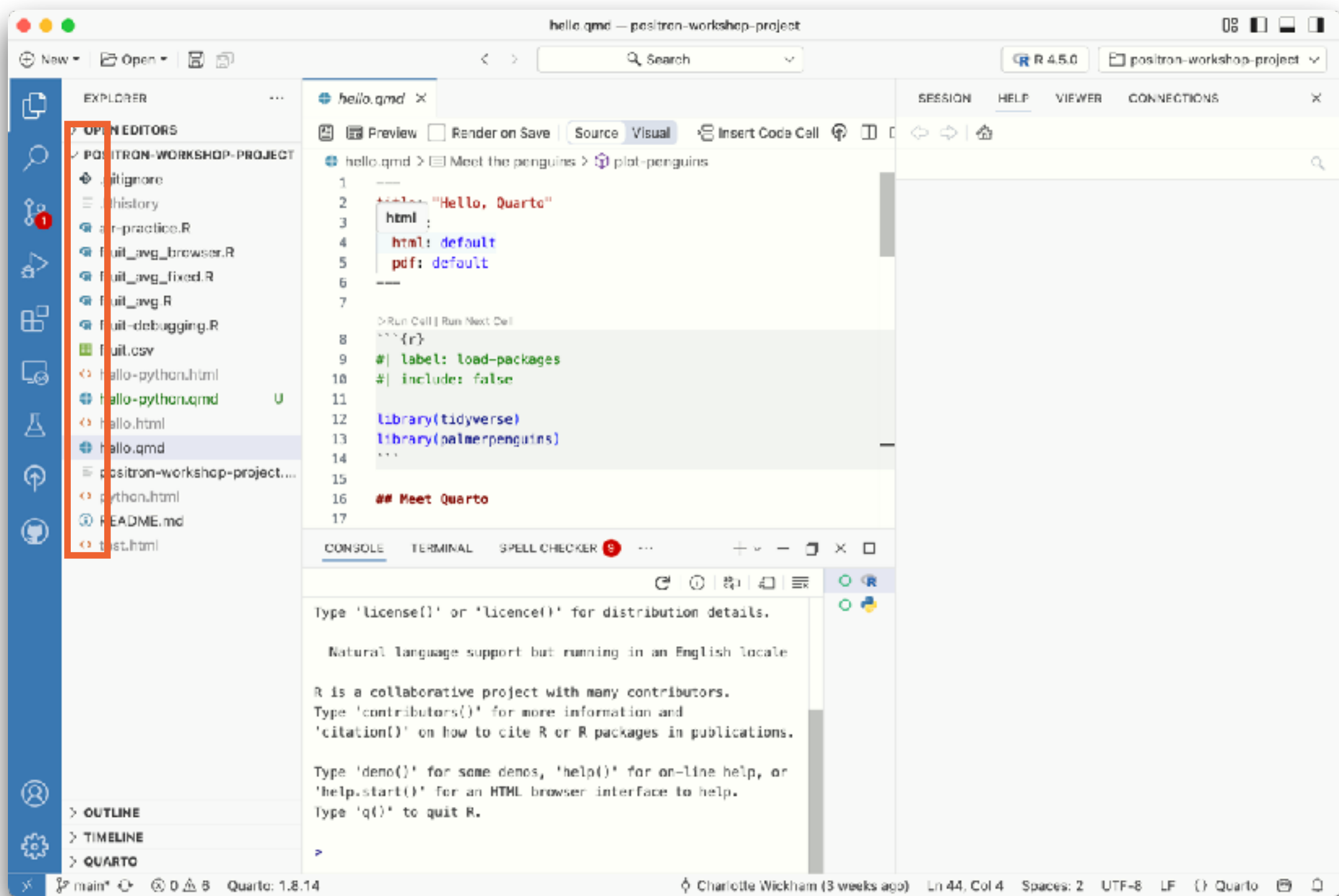
- Update your user settings to change the Icon Theme to Minimal via the Settings editor interface.
 - Hint: Filter for settings with the word “icon”.
- Open the user `settings.json` file to confirm the change you made.
- In the user `settings.json` file, change the Icon Theme to `vs-seti` and save your changes.
- Go back to the Icon Theme settings in the Settings editor interface and confirm the change you made in the JSON file.







Change to
"vs-seti"



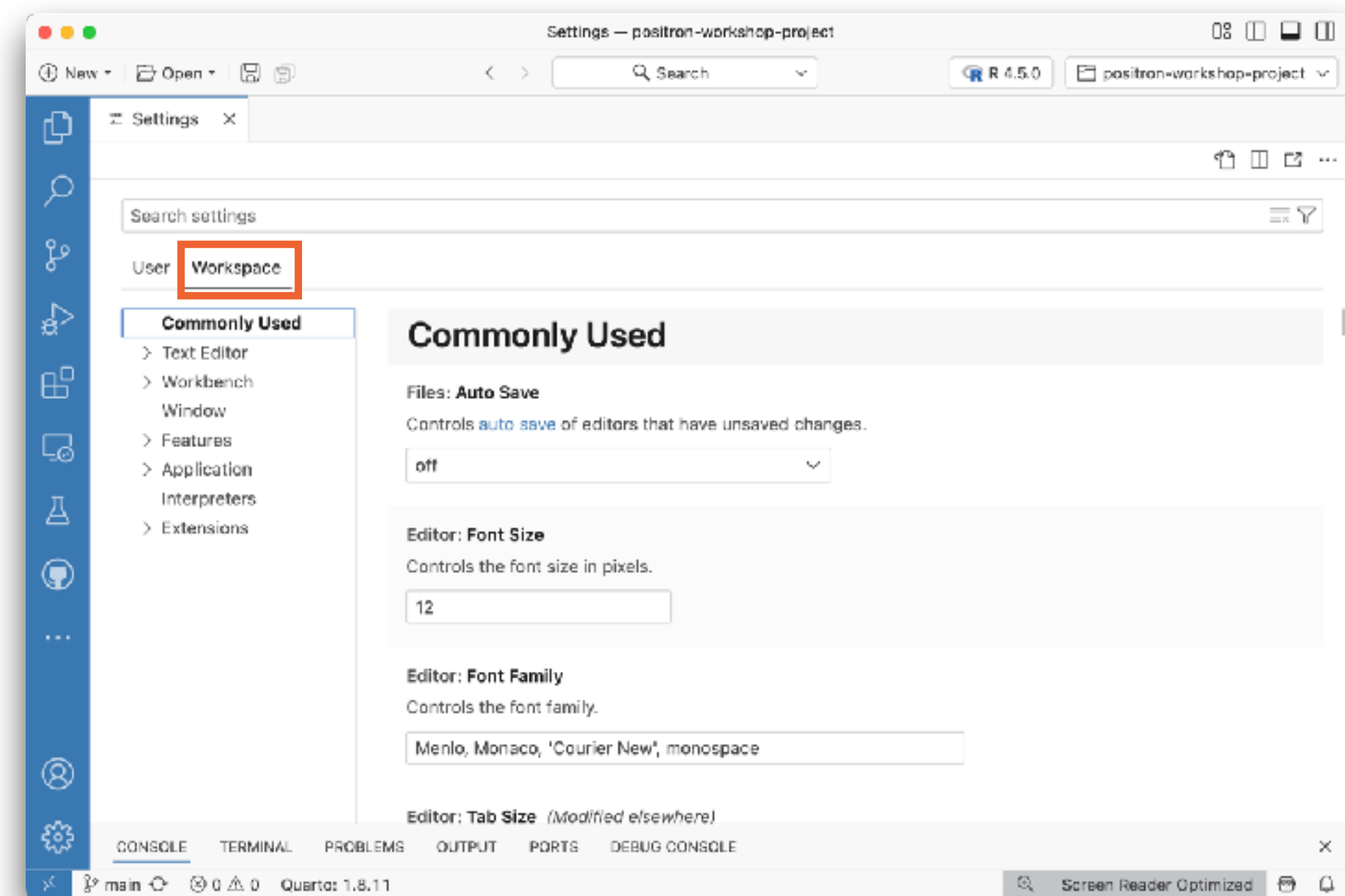
Workspace settings

- Workspace settings are specific to a project and override user settings.
- Positron (like VS Code) stores workspace settings at the root of the project in a `.vscode` folder, making it easy to share settings with others in a version-controlled (e.g., Git) project.

Updating workspace settings

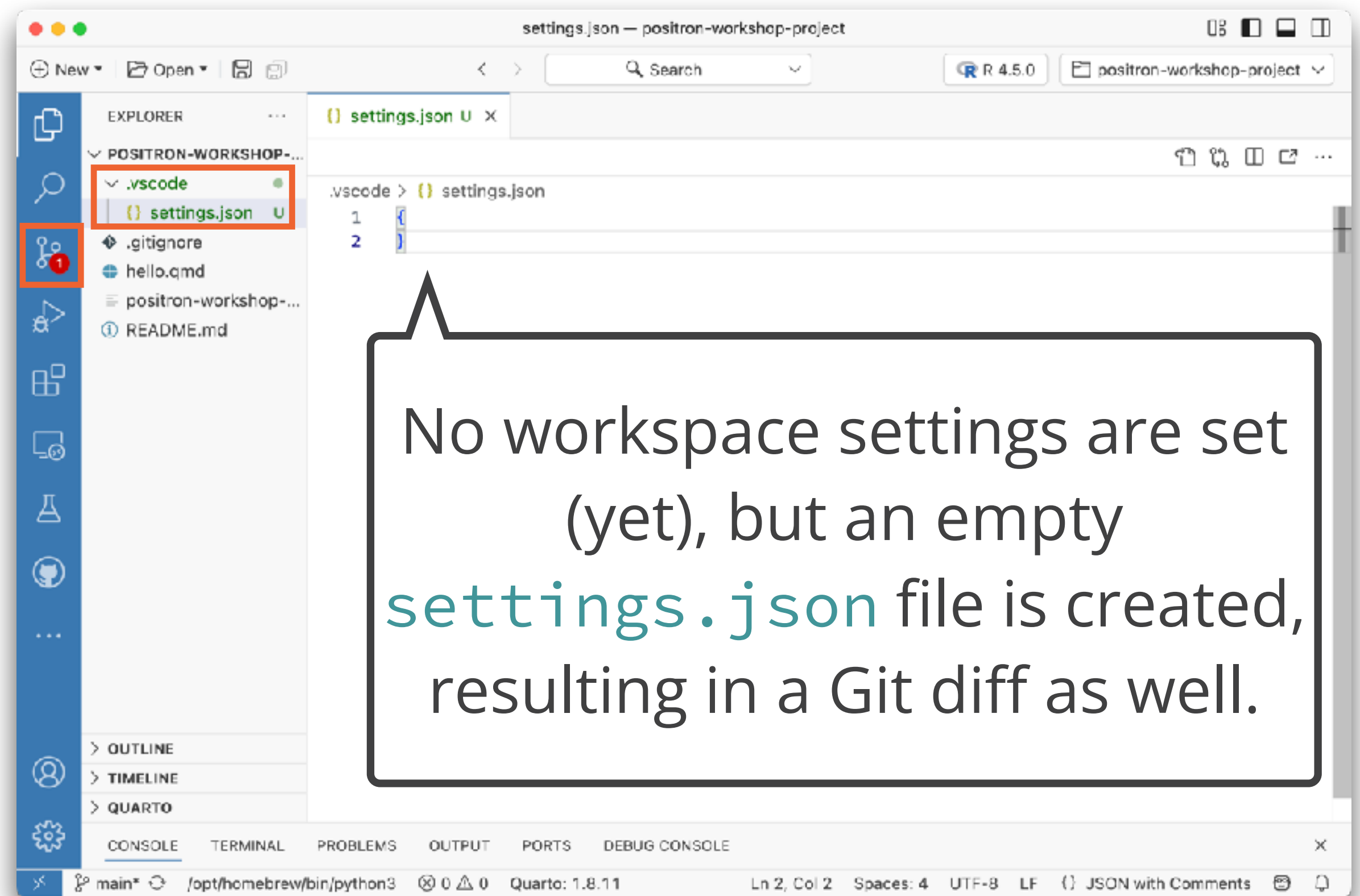
To update using the UI:

- In the Command Palette:
Preferences: Open Workspace Settings
- In the top menu:
Positron > Settings... > Settings



To edit the JSON file:

In the Command Palette:
Preferences: Open Workspace Settings (JSON)

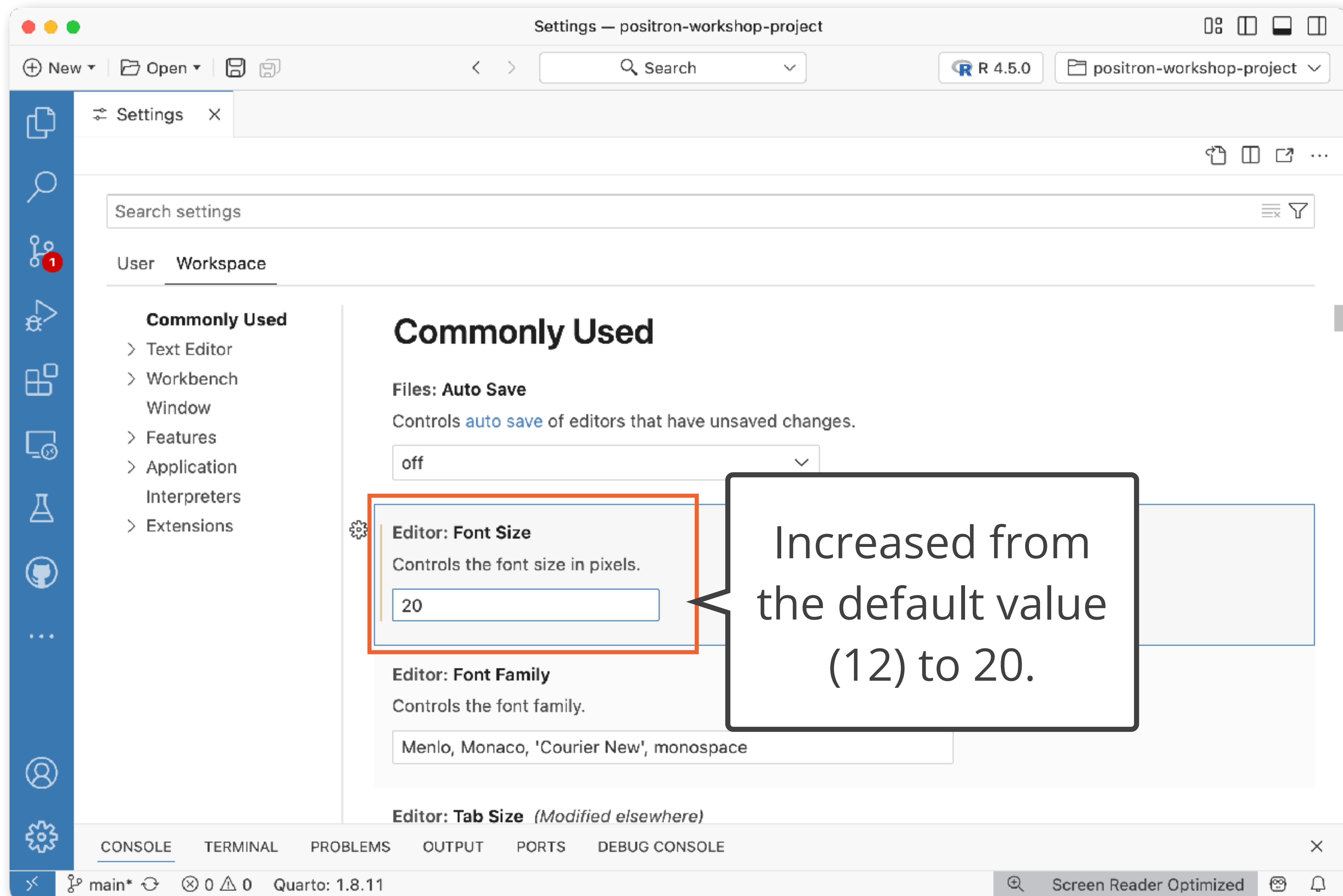


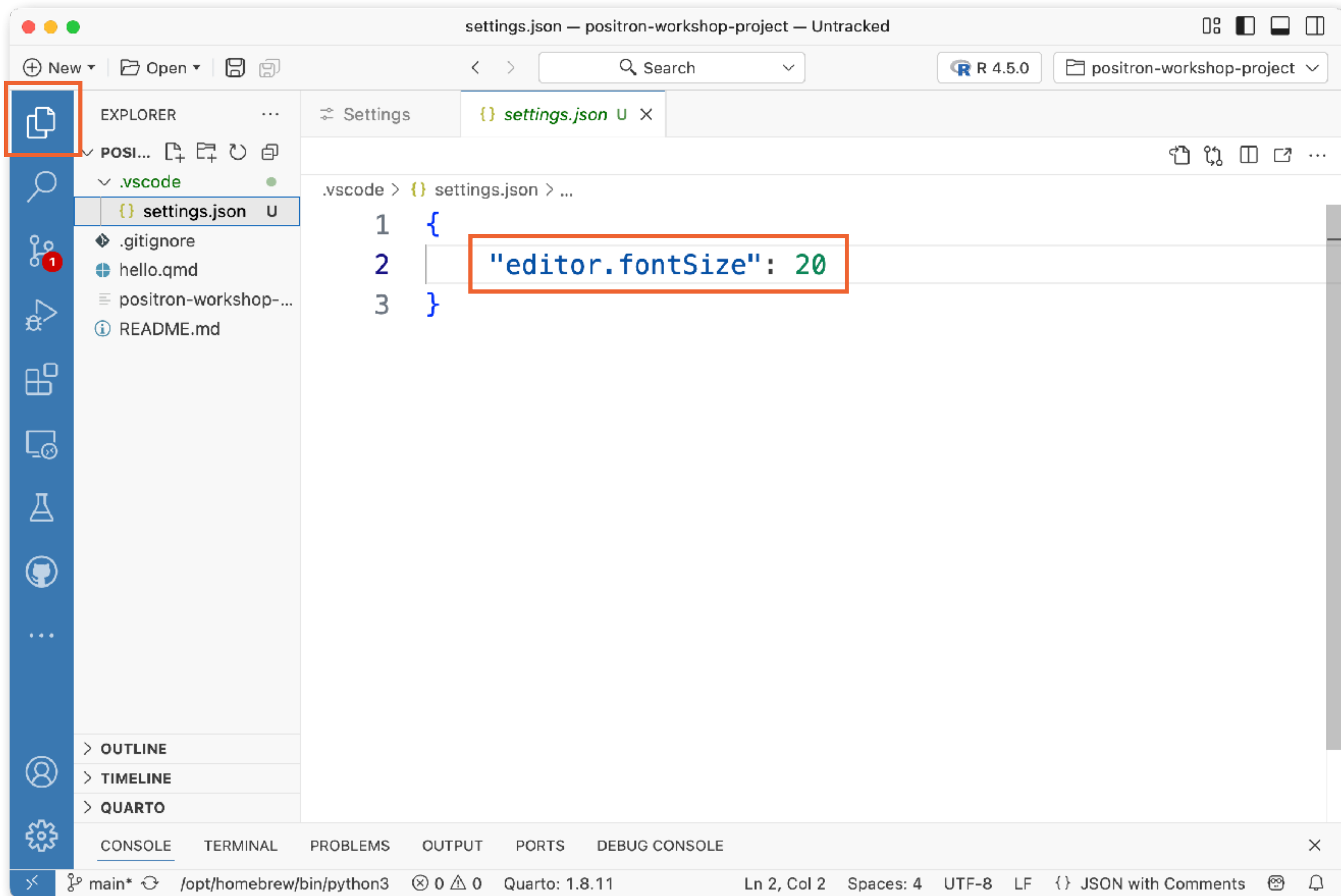
3_m 00_s

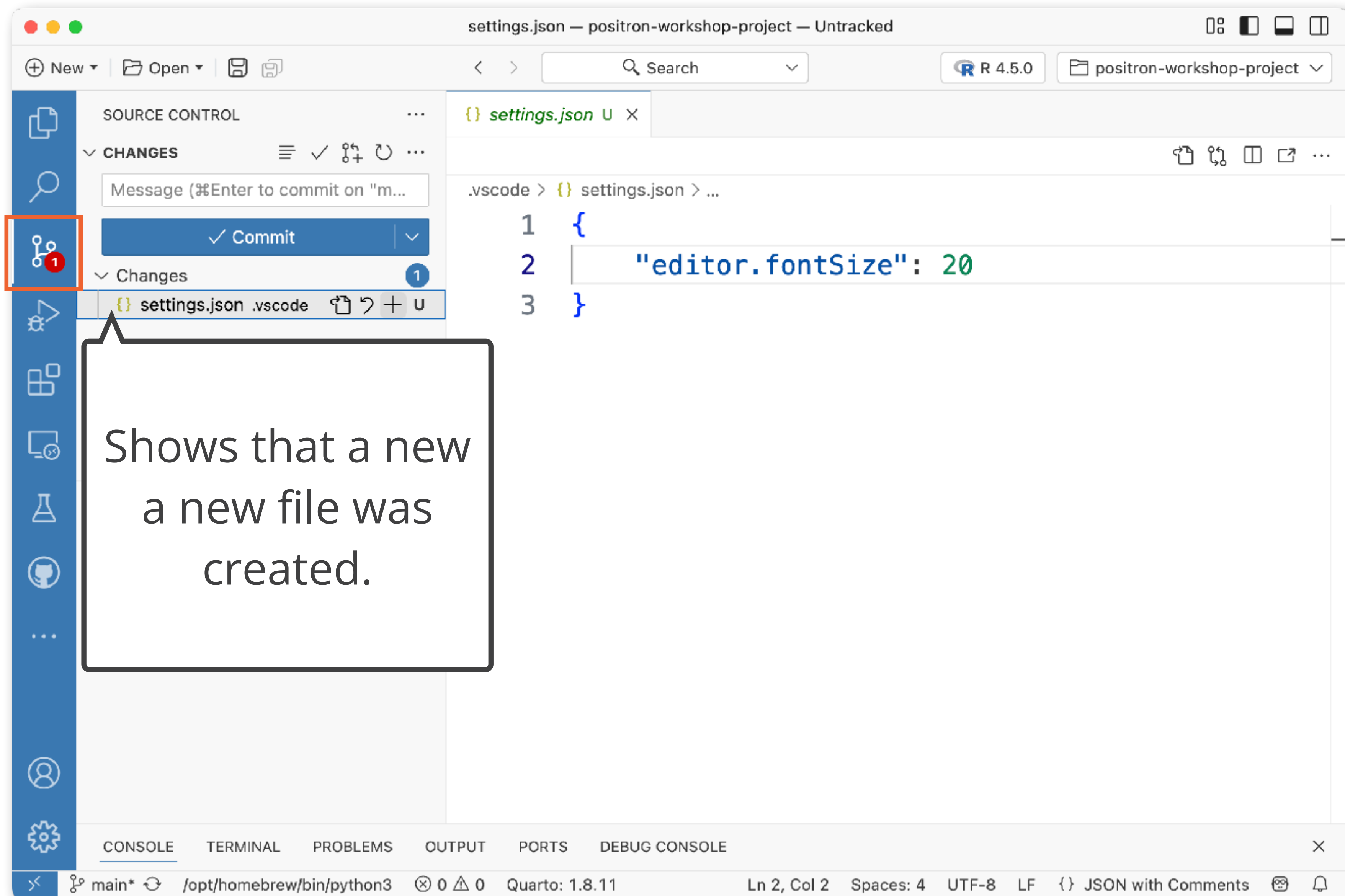
Your turn

Customize workspace settings

- Update your workspace settings in the `positron-workshop-project` using the Settings editor interface.
 - You can update whatever setting you like.
 - If you need inspiration, change the font size in the editor.
- Open the `settings.json` file in the `.vscode` folder of your project to confirm the change you made.
- Click on the Source Control icon in the Activity bar and view the diff created by updating your settings. Contrast this to what happened (or didn't happen) in the Source Control when you updated your user settings.



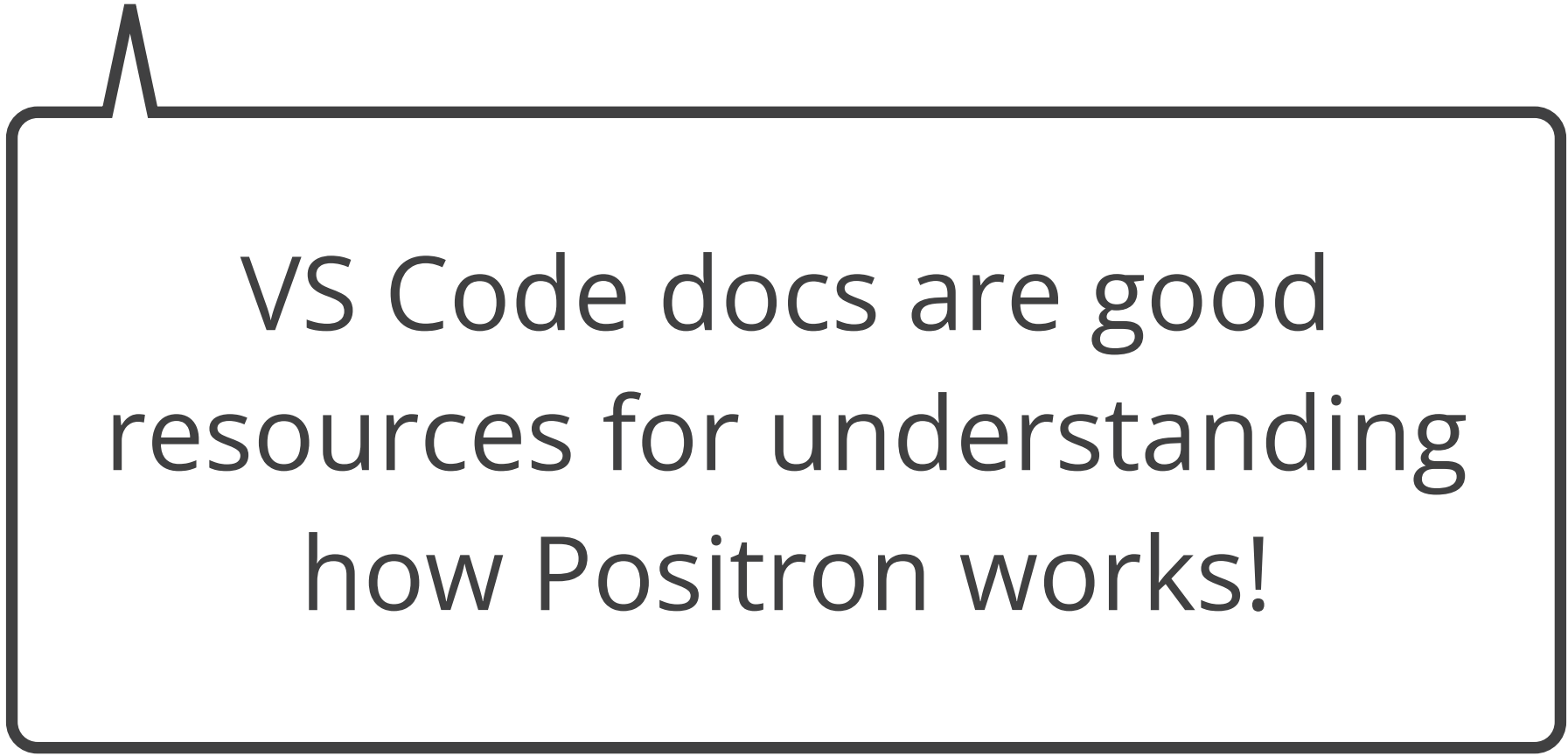




Learn more

VS Code docs: User and workspace settings

code.visualstudio.com/docs/configure/settings



VS Code docs are good
resources for understanding
how Positron works!

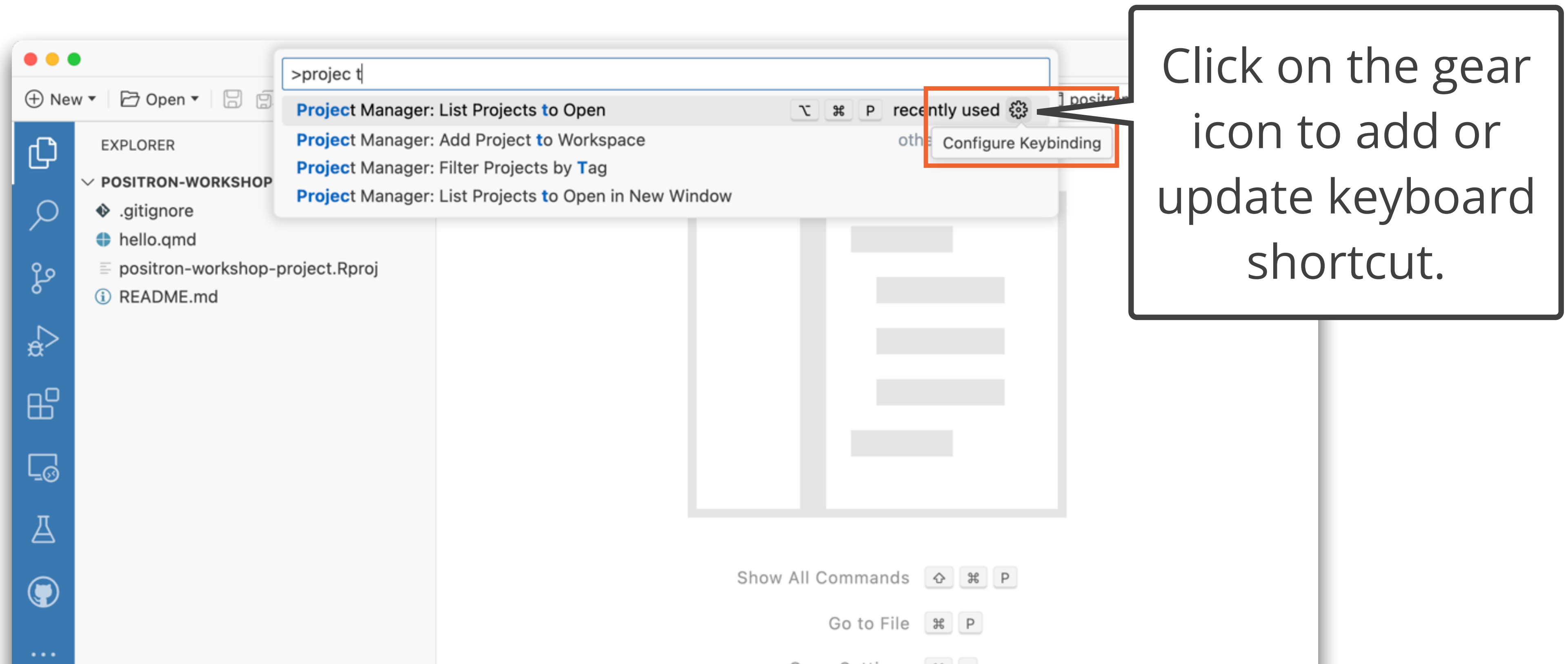
Keyboard shortcuts

Keyboard shortcuts

- Positron lets you perform most tasks directly from the keyboard.
- The Keyboard Shortcuts editor lists all available commands with and without keyboard shortcuts, and enables you to change, remove, or reset their keyboard shortcuts using the available actions.
- You can open the Keyboard Shortcuts editor:
 - From the Command Palette: *Preferences: Open Keyboard Shortcuts*
 - From the top menu: *Code > Settings > Keyboard Shortcuts*

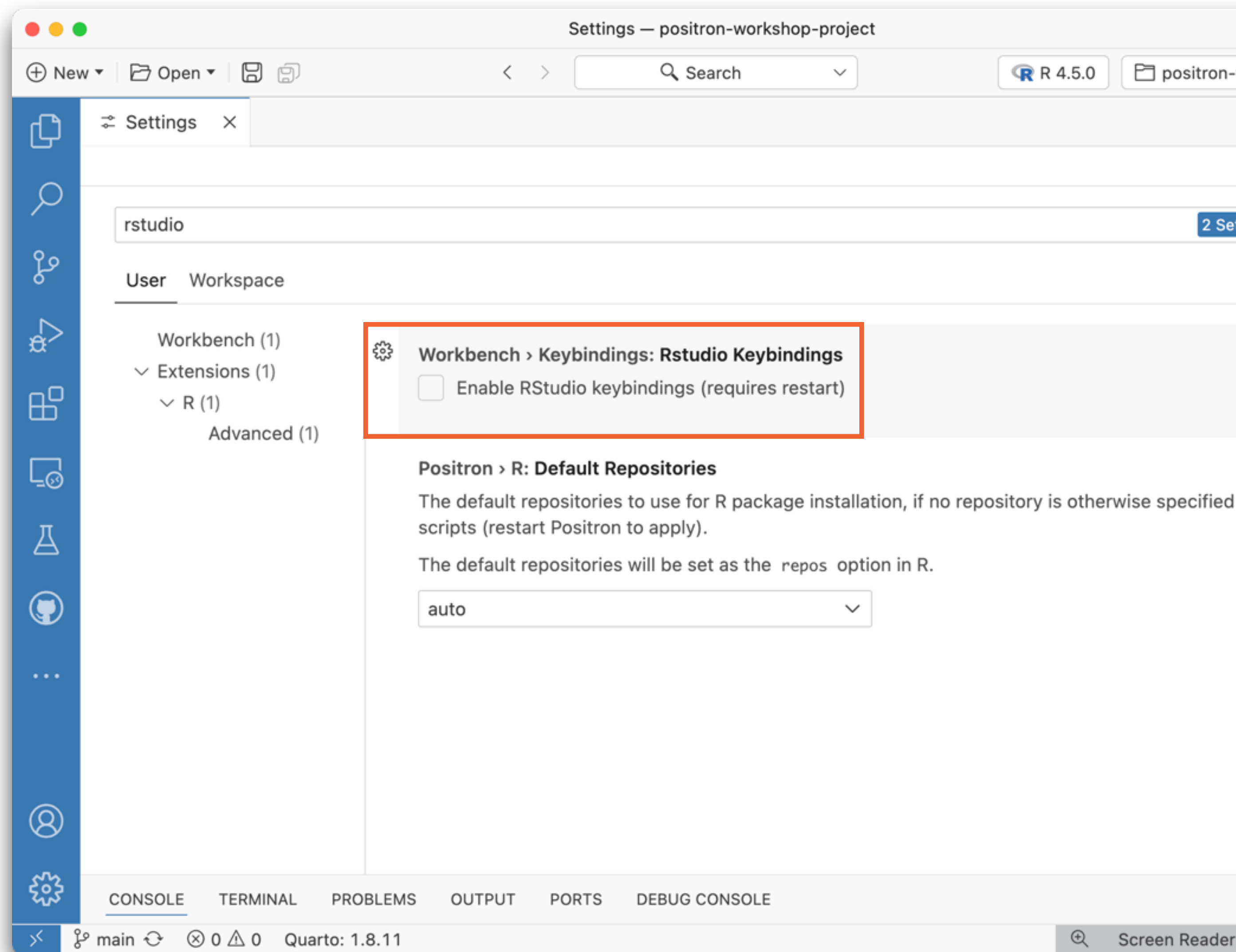
Keyboard shortcuts for Command Palette actions

You can add a keyboard shortcut or customize the existing keyboard shortcut for any action you can take from the Command Palette.



Your RStudio keybindings in Positron

- You can enable RStudio keybindings in Positron with the Enable RStudio keybindings option.
- This might overwrite some of Positron's keybindings, so you might then wish to update / remove some newly enabled RStudio keybindings.



Learn more

VS Code docs: Keyboard shortcuts for Visual Studio Code

code.visualstudio.com/docs/config/keybindings

Layout

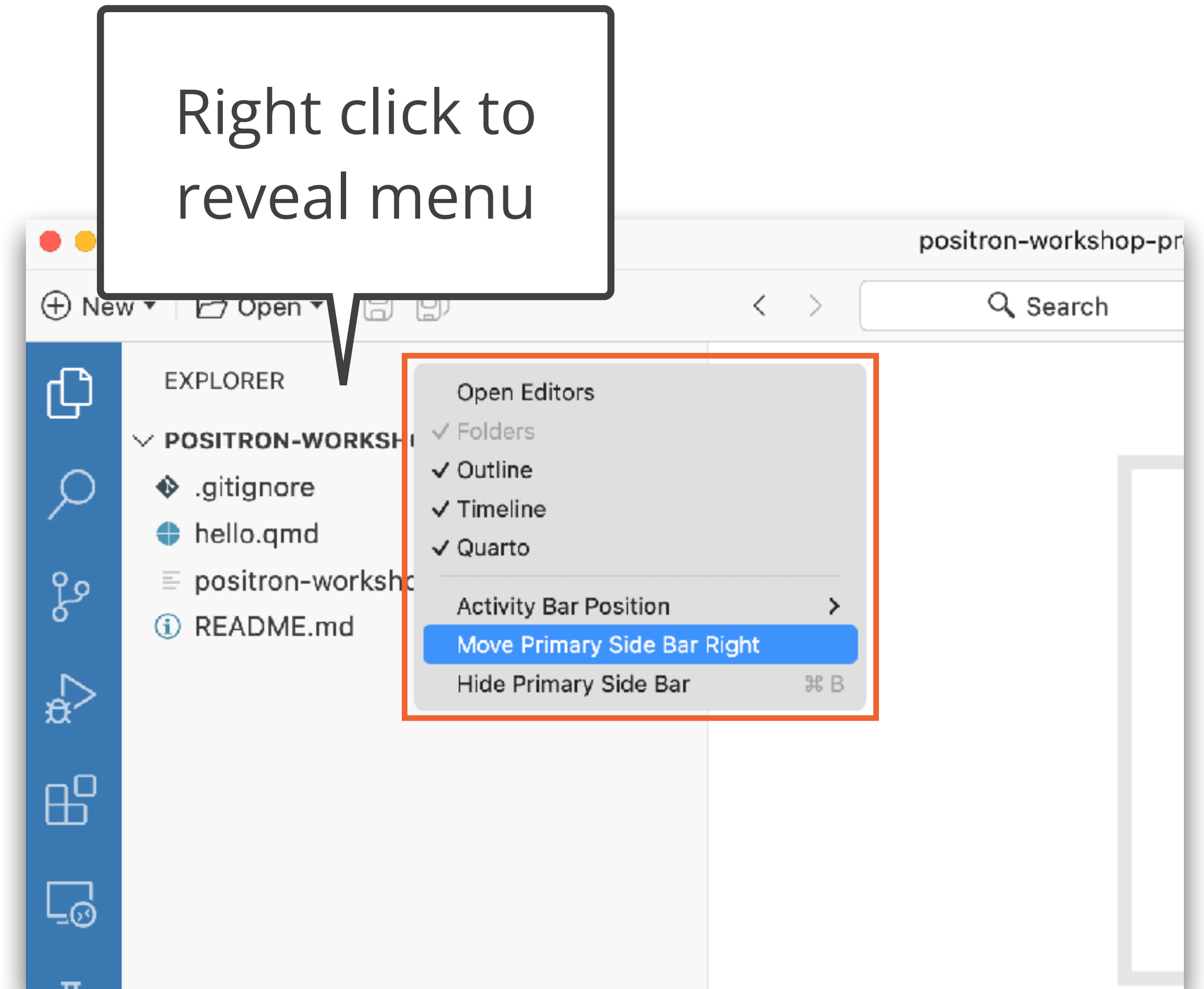
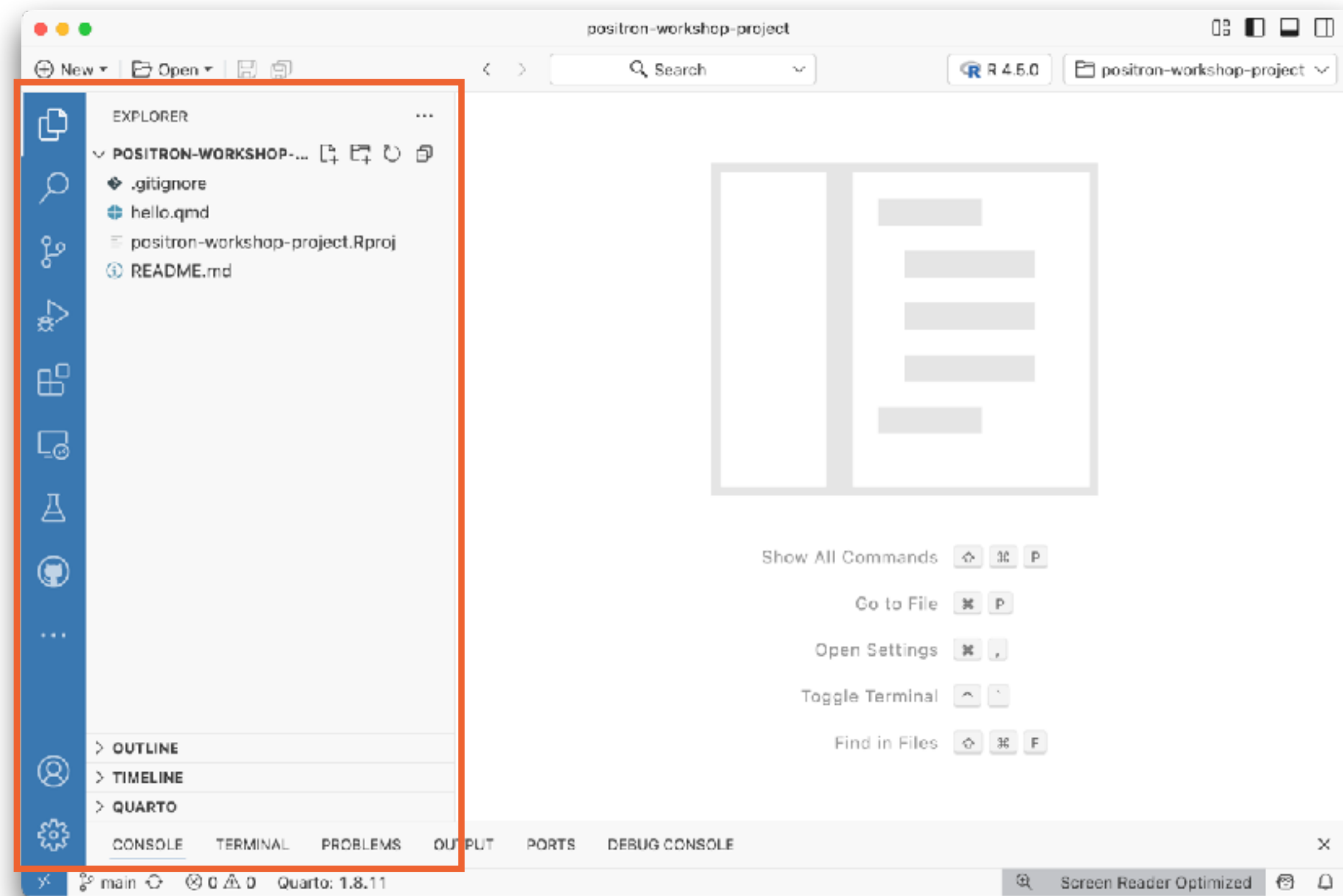
Primary side bar

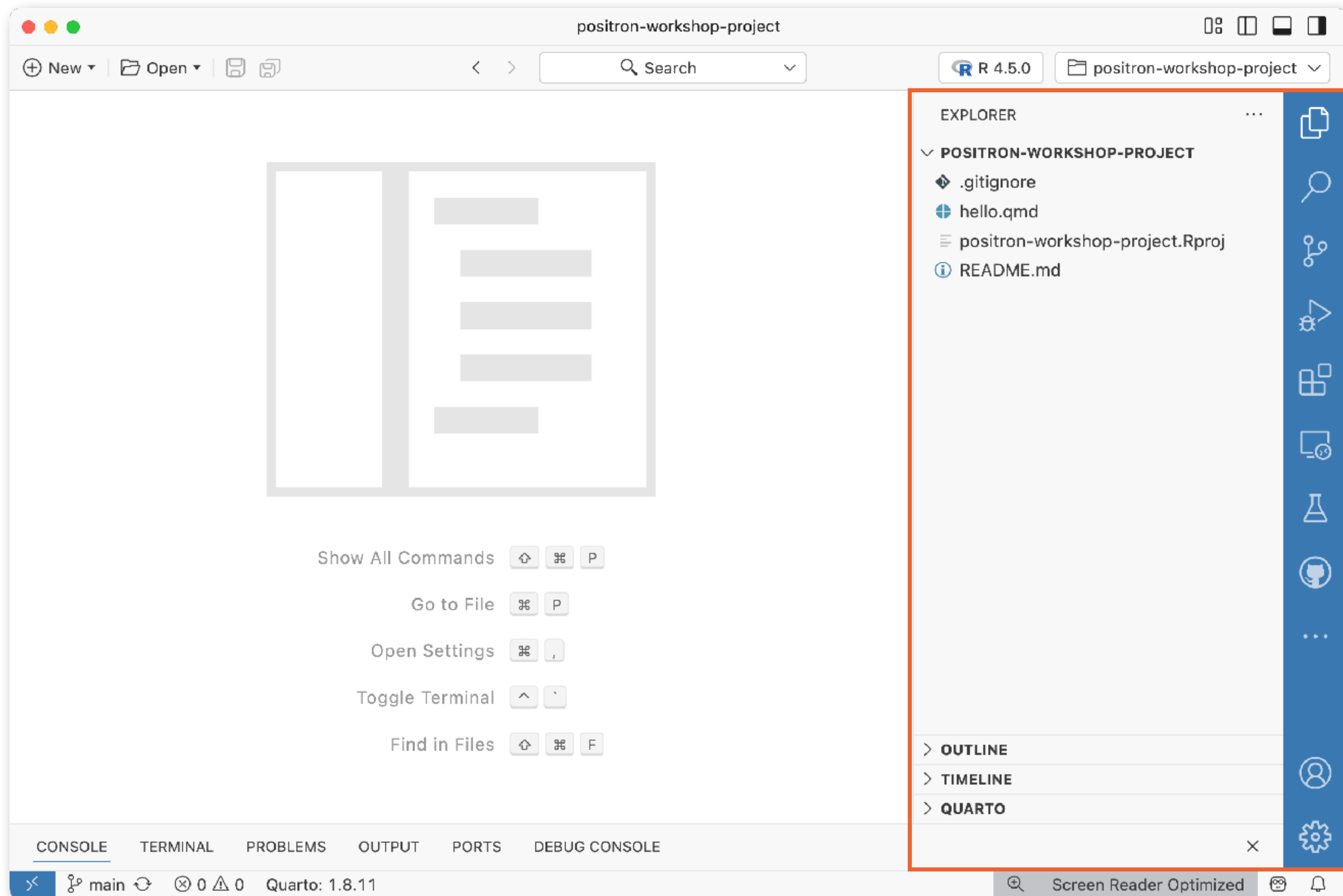
- By default, the Primary Side Bar is located on the left and shows views such as the Explorer, Search, and Source Control views.
- Contents of the Primary Side Bar is controlled by what is selected in the Activity Bar.

Demo

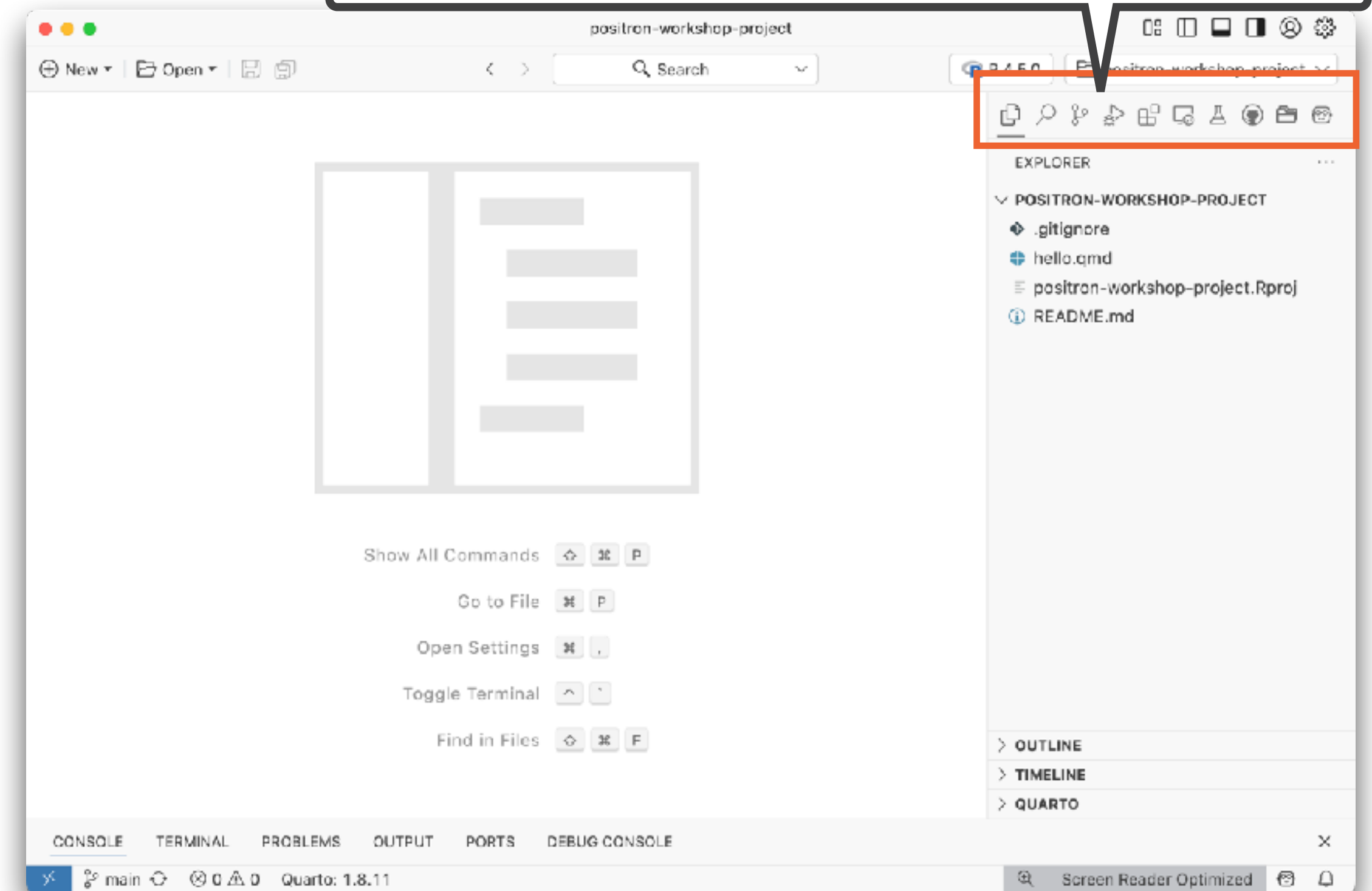
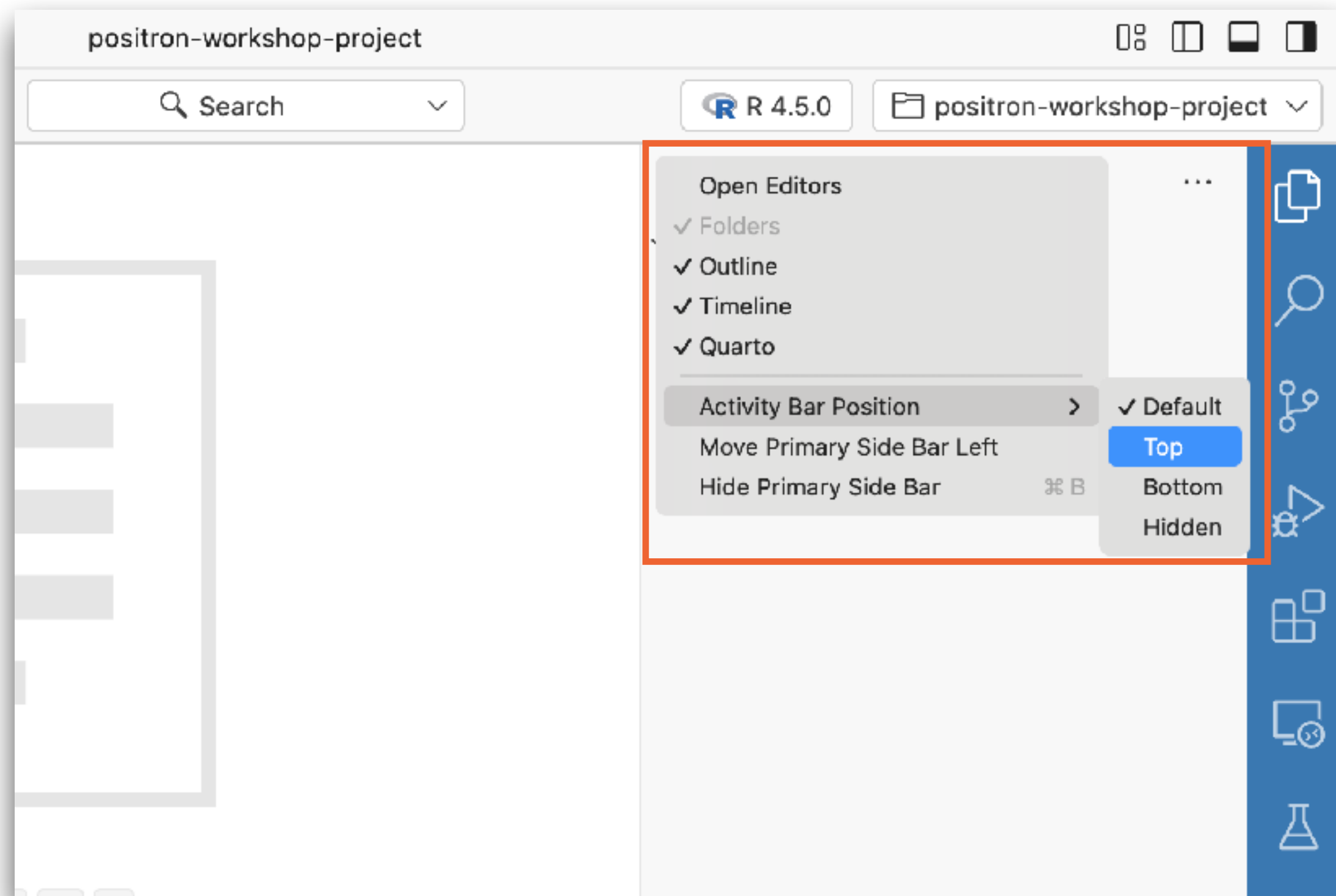
Customizing layout

- Move the primary side bar to the right.
- Move the activity bar to the top.



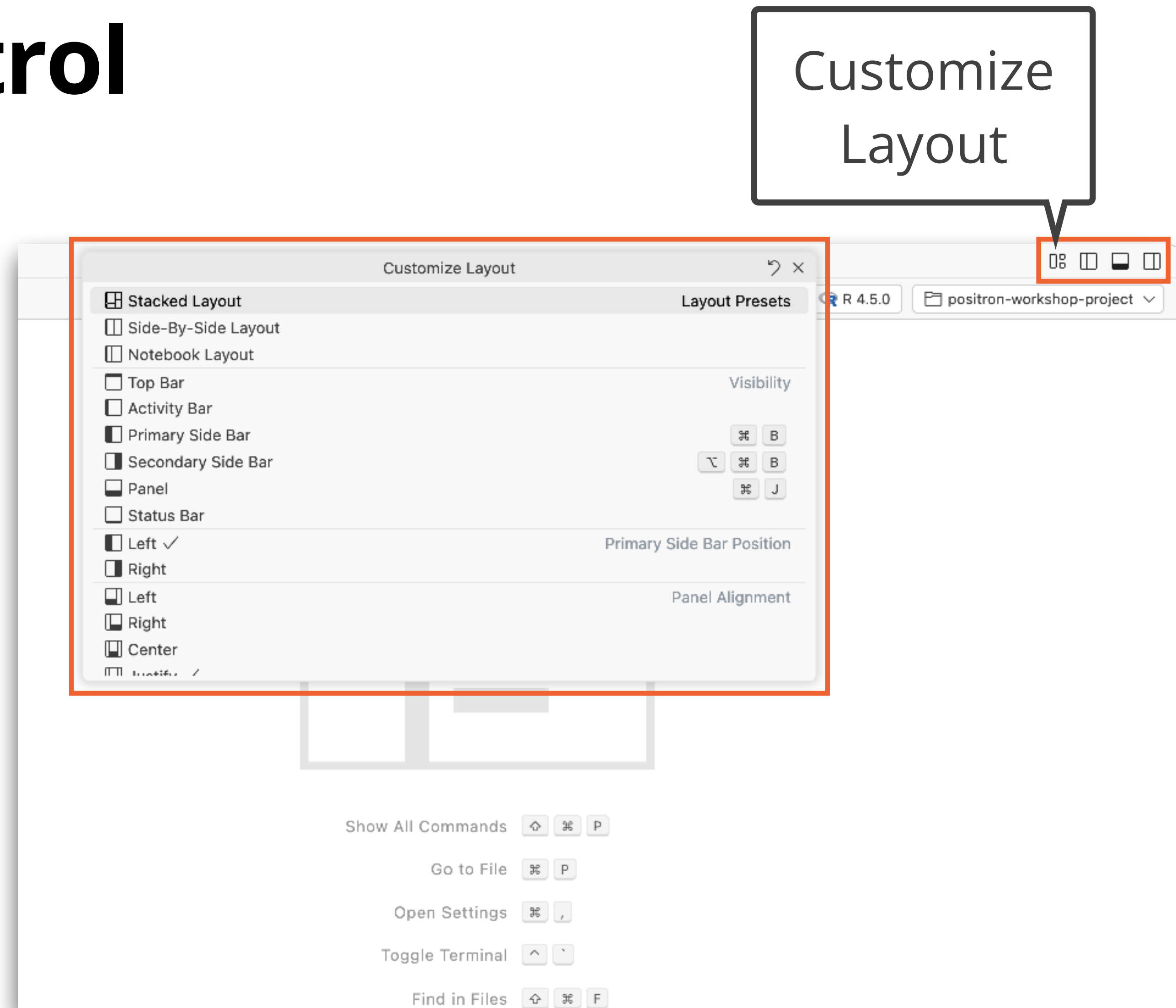


Activity Bar on top,
and not blue anymore.



Customize layout control

- The title bar has buttons to toggle the visibility of UI elements.
- The rightmost button brings up the Customize Layout dropdown that gives you finer control over the visibility and layout of various UI elements.



Learn more

VS Code docs: Custom Layout

code.visualstudio.com/docs/config/custom-layout

VS Code docs: Profiles

<https://code.visualstudio.com/docs/config/profiles>

Extensions

Extensions

- Extensions let you add languages, debuggers, tools, themes, etc. to Positron to support your development workflow (just like in VS Code).
- Your Positron and VS Code extensions are separate and won't interfere with each other.
- Unlike in VS Code, you install Positron extensions from Open VSX.

Your turn

Install extension

- Click on the Extensions icon from the Activity Bar in Positron.
- If you haven't yet done so, search for and install the Shiny or Indent-Rainbow extension.
- If you have already installed it, or if you would like to install one more extension, find and install the Solarized & Selenized extension.
- Use the Command Palette to set the theme of your Positron window to a Solarized or Selenized theme of your choice. Hint: Start typing theme in the Command Palette.

Extensions

Welcome — positron-workshop-project

⊕ New ▾ | 📁 Open ▾ | 📄 📄 | < > | 🔍 Search ▾ | R 4.5.0 | positron-workshop-project ▾

EXTENSIONS 🔄 ...

Search Extensions in Marke... ⌵ ⌵

✓ **INSTALLED** 4

-  **Air - R Language Su...** ⌚ 17ms
R formatter and language ser...
Posit Software, PBC ⚙️
-  **GitHub Pull Requests** ⌚ 33ms
Pull Request and Issue Provi...
GitHub ⚙️
-  **Project Manager** ⌚ 5ms
Easily switch between projects
alefragnani ⚙️
-  **Quarto** ⌚ 128ms
Extension for the Quarto scie...
quarto ⚙️

✓ **RECOMMENDED** 0

Welcome ×

 **Positron**
an IDE for data science

Start

-  New Notebook
-  New File
- 
- 

Open

-  Open...
-  New Folder...
-  New Folder from Git...
-  Connect to...

Recent

- positron-workshop ~/Deskto...

SESSION **CONNECTIONS** ... ×

R 4.5.0 ▾

No variables have been created.

CONSOLE **TERMINAL** **PROBLEMS** **OUTPUT** **PORTS** **DEBUG CONSOLE** ×

✓ **CONSOLE** ⌵ **PLOTS** ⌵

~/Desktop/posit/positron-workshop-project 🔄 🗑️ ℹ️ 🔍 📄 ⌵ ↩️ ➡️ 0% ⌵ ⌵

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.

>

main 🔄 ⊗ 0 ⚠️ 0 Quarto: 1.8.11 Screen Reader Optimized 🗨️ 🔔

Welcome — positron-workshop-project

⊕ New ▾ | 📁 Open ▾ | 📄 📋 | < > | 🔍 Search ▾ | R 4.5.0 | positron-workshop-project ▾

EXTENSIONS: MARKETPLACE ↻ ...

Solarized 🔍 ⌵

 **Solarized & Selen...** 1K ⭐ 5
A Solarized and Selenized co...
santoso-wijaya [Install](#)

 **Solarized Sunset Th...** 1K
A flat theme based on Solari...
jansim [Install](#)

 **Better Solarized** 12K
A Better Solarized theme for ...
Ed Heltzel [Install](#)

 **Solarized Sharp** 3K
muhammad-sammy [Install](#)

 **Solarized High Contr...** 96
Sepia-toned, high-contrast li...
tiny [Install](#)

 **Positron**
an IDE for data science

Start

 New Notebook

 New File

Open

 Open...

 New Folder...

 New Folder from Git...

 Connect to...

Recent

positron-workshop ~/Deskto...

SESSION CONNECTIONS ...

R 4.5.0 ▾ filter

No variables have been created.

CONSOLE TERMINAL PROBLEMS OUTPUT PORTS DEBUG CONSOLE

CONSOLE

~/Desktop/posit/positron-workshop-project

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>

main 0 0 Quarto: 1.8.11

Screen Reader Optimized

New

Open

EXTENSIONS: MARKETPLACE

Solarized

Solarized & Selenized

A Solarized and Selenized color themes for VS Code

santoso-wijaya

Solarized Sunset Theme

A flat theme based on Solarized

jansim

1K

Install

Better Solarized

A Better Solarized theme for VS Code

Ed Heltzel

12K

Install

Solarized Sharp

muhammad-sammy

3K

Install

Solarized High Contrast

Sepia-toned, high-contrast light theme

tiny

96

Install

>theme

Preferences: Color Theme

Developer: Generate Color Theme From Current Settings

Preferences: Browse Color Themes in Marketplace

Preferences: File Icon Theme

Preferences: Product Icon Theme

Preferences: Toggle between Light/Dark Themes

other commands

Solarized and Selenized for VS Code

santoso-wijaya

1,269

★★★★★ (1)

A Solarized and Selenized color themes for VS Code

Set Color Theme

Disable

Uninstall

✓ A

DETAILS

FEATURES

CHANGELOG

Solarized and Selenized for VS Code

Solarized is a sixteen color palette (eight colors for foreground, eight for background)

Marketplace

Identifier santoso-wijaya.helios-selene

Version 0.3.18

Publish... 2024-07-08, 22:02:59

CONSOLE

TERMINAL

PROBLEMS

OUTPUT

PORTS

DEBUG CONSOLE

CONSOLE

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>

PLOTS

R 4.5.0

positron-workshop-project

SESSION

CONNECTIONS

filter

No variables have been created.

main

Quarto: 1.8.11

Screen Reader Optimized

Visual Studio Code interface showing the Extensions Marketplace, a color theme selection dialog, and the R console output.

EXTENSIONS: MARKETPLACE

- Solarized** (santoso-wijaya)
- Solarized & Selenized** (santoso-wijaya)
- Solarized Sunset Theme** (jansim)
- Better Solarized** (Ed Heltzel)
- Solarized Sharp** (muhammad-sammy)
- Solarized High Contrast** (tiny)

Select Color Theme (detect system color mode disabled)

- light themes**
 - Positron Light Default Positron Light
 - Selenized Light Selene Selenized Light
 - Solarized Light Helios Solarized Light
- dark themes**
 - Positron Dark Default Positron Dark
 - Selenized Dark Selene Selenized Dark
 - Solarized Dark Helios Solarized Dark**
 - Tomorrow Night Blue
- high contrast themes**
 - Light High Contrast Default High Contrast Light
 - Dark High Contrast Default High Contrast

Solarized and Selenized for VS Code

Marketplace

- Identifier: santoso-wijaya.helios-selene
- Version: 0.3.18
- Publish...: 2024-07-08, 22:02:59

CONSOLE

~/Desktop/posit/positron-workshop-project

```
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>
```

main 0 0 Quarto: 1.8.11

Screen Reader Optimized

Extension: Solarized & Selenized — positron-workshop-project

New

Open

Search

R 4.5.0

positron-workshop-project

EXTENSIONS: MARKETPLACE

Solarized



Solarized & Selenized

A Solarized and Selenized co...

santoso-wijaya

1K

Install



Solarized Sunset Th...

A flat theme based on Solari...

jansim

12K

Install



Better Solarized

A Better Solarized theme for ...

Ed Heltzel

3K

Install



Solarized Sharp

muhammad-sammy

96

Install



Solarized High Contr...

Sepia-toned, high-contrast li...

tiny

Install

Extension: Solarized & Selenized



Solarized & Selenized

santoso-wijaya | 1,269 | ★★★★★ (1)

A Solarized and Selenized color themes com...

Set Color Theme

Disable

Uninstall

☒ A

DETAILS

FEATURES

CHANGELOG



Solarized and Selenized for VS Code

Solarized is a sixteen color palette (eight

Marketplace

Identifier

santoso-wijaya.helios-selene

Version

0.3.18

Publish...

2024-07-08, 22:02:59

SESSION

CONNECTIONS

R 4.5.0

filter

No variables have been created.

CONSOLE

TERMINAL

PROBLEMS

OUTPUT

PORTS

DEBUG CONSOLE

CONSOLE

~/Desktop/posit/positron-workshop-project

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>

PLOTS

main

Quarto: 1.8.11

Screen Reader Optimized

Solarized
Dark
theme

Built-in extensions

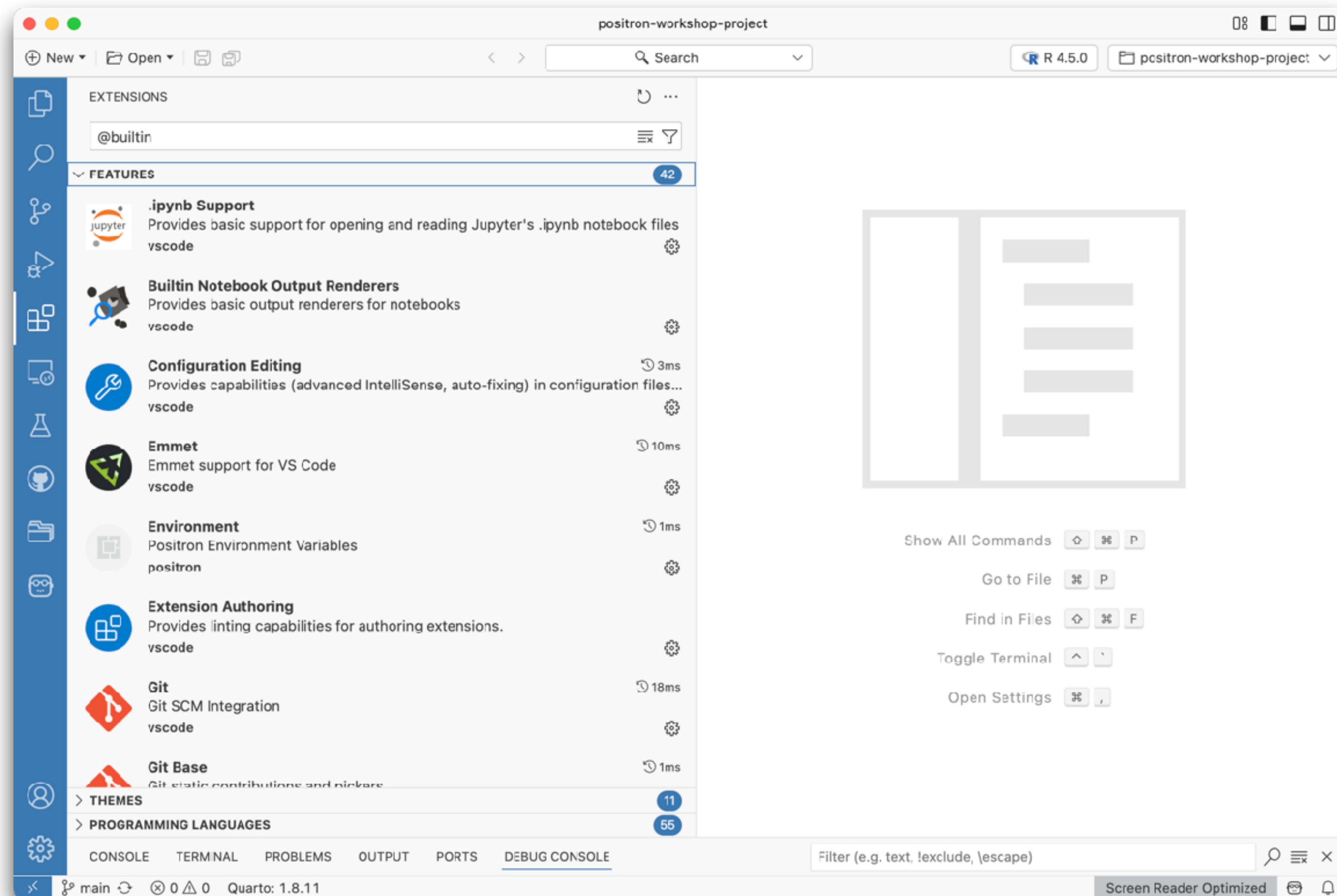
- Built-in extensions (e.g., R, Positron Python, and Markdown Language Basics) are installed with Positron.
- They can only be updated by updating Positron.
- They can be seen in the extensions view with [@builtin](#).

Demo

Built-in extensions

- Click on the Extensions icon in the Activity Bar.
- Type `@builtin` in the Extension search bar.
- Review the built-in extensions.

Built-in extensions



Bootstrapped extensions

- Bootstrapped extensions (e.g., Quarto, Air, GitHub Pull Requests) are installed *by* Positron, and act like you installed them yourself.
- They can be updated independently of updating Positron.

Other extensions

- Any other extensions need to be installed from Open VSX.
- Popular extensions you might consider installing are Project Manager, Shiny, Rainbow CSV, indent-rainbow, etc.
- You can also install Extension Packs; a collection of packs curated by users for specific tastes, tasks, or languages.
- You might get a warning about whether you trust the publisher of a theme you choose. Read the warning carefully. The decision is yours!

New

Open

Search

R 4.5.0

positron-workshop-project

EXTENSIONS: MARKETPLACE

theme



Solarized & Selenized

A Solarized and Selenized colo...

santoso-wijaya

Dracula Theme Official

The official Dracula Theme: a ...

dracula-theme

Installing

base9-vscode

base9-theme

2K

Install

Wildberries

A dark theme for purple lovers

wildberries-theme

7K 4

Install

Material Theme (But I ...

A Apache-2 licensed fork of M...

t3dotgg

2K

Install

Cobalt2 Theme O...

Official theme by Wes Bos.

wesbos

19K 5

Install

XD Theme

A theme because my settings ...

jeff-hykin

4K

Install

OpenSumi Default Th...

The default OpenSumi themes

opensumi

14K

Install

MSDevStudio Default...

745

Extension: Dracula Theme Official



Dracula Theme Official

dracula-theme | 158,746 | ★★★★★ (2)

The official Dracula Theme: a dark theme for many editors, shells, and more. ...

Do you trust the publisher "dracula-theme"?

The extension [Dracula Theme Official](#) is published by dracula-theme. This is the first extension you're installing from this publisher.

dracula-theme is **not verified**.

Positron has no control over the behavior of third-party extensions, including how they manage your personal data. Proceed only if you trust the publisher.

Learn More

Cancel

Trust Publisher & Install

Marketplace

Identifier

dracula-theme.theme-dracula

Version

2.25.1

Publish...

2020-04-06, 23:07:47

Last Released

2024-09-05, 23:29:53

Categories

Themes

Resources

[Marketplace](#)
[Repository](#)
[License](#)

CONSOLE

TERMINAL

PROBLEMS

OUTPUT

PORTS

DEBUG CONSOLE

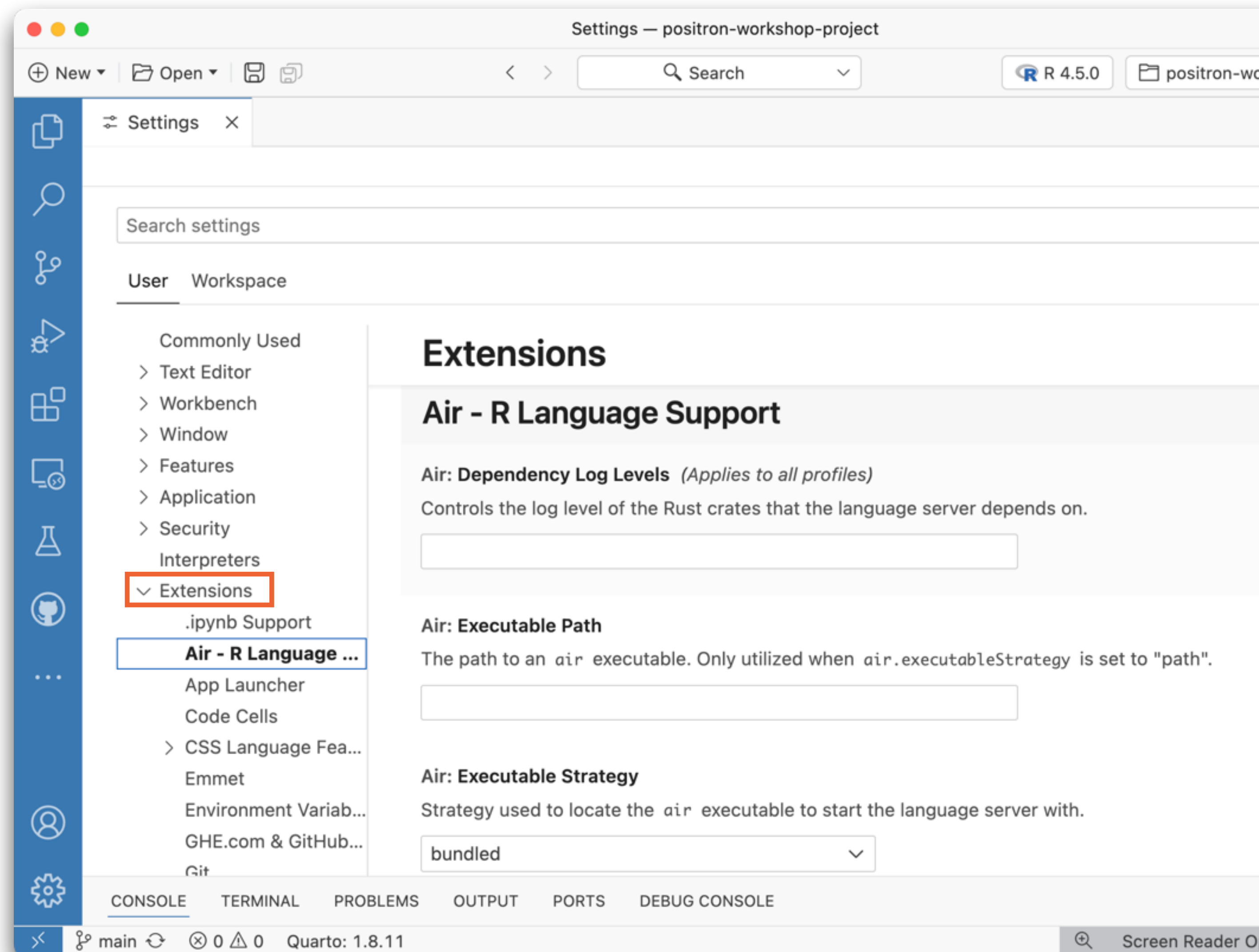
main

Quarto: 1.8.11

Screen Reader Optimized

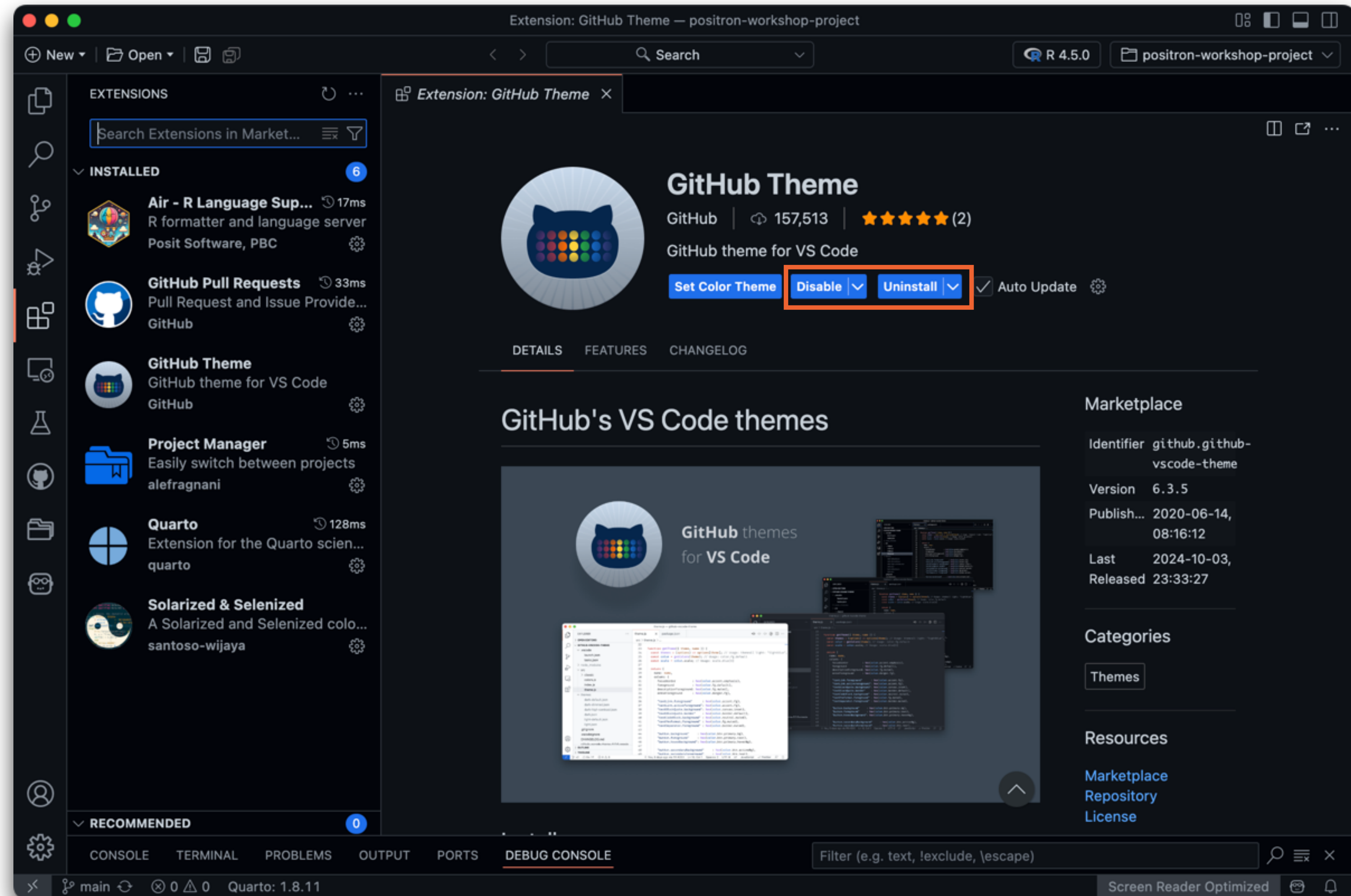
Extension settings

- Installed Positron extensions can also contribute their own settings, which you can review under the Extensions section of the Settings editor.
- These can be set at the user or workspace level as well.



A word of caution

Extensions alter the look and functionality of Positron and can conflict with each other. We recommend being selective in extensions you have enabled at any given point, and disabling or uninstalling the ones you no longer use.



Learn more

Positron docs: Extensions

positron.posit.co/extensions.html