



Hello Positron

Part of the "Getting Started with Positron" workshop

Posit, PBC



pos.it/ron-raukr

Install Positron and some packages

- Latest released version: <https://positron.posit.co/download>
- If you already have Positron, check for update!
- `install.packages(c("tidyverse", "palmerpenguins", "usethis"))`

hello.qmd — positron-workshop

New Open

Search

R 4.4.2 positron-workshop

raukr.qmd setup.qmd 01-hello-positron.qmd hello.qmd

Preview Render on Save Source Visual

Insert Code Cell

hello.qmd > Meet the penguins

```
1 ---
2 title: "Hello, Quarto"
3 format: html
4 editor: visual
5 ---
6
7 {r}
8 # label: load-packages
9 # include: false
10
11 library(tidyverse)
12 library(palmerpenguins)
13
14
15 ## Meet Quarto
16
17 Quarto enables you to weave together content and executable code into a
18 finished document.
19 To learn more about Quarto see <https://quarto.org>.
20
21 ## Meet the penguins
22 {style="float:right;"
24 fig-alt="Illustration of three species of Palmer Archipelago penguins:
25 Chinstrap, Gentoo, and Adelle. Artwork by @allison_horst." width="401"}
26
27 The `penguins` data from the [**palmerpenguins**](https://allisonhorst.github.
28 io/palmerpenguins "palmerpenguins R package") package contains size
29 measurements for {r} nrow(penguins) penguins from three species observed on
30 three islands in the Palmer Archipelago, Antarctica.
31
```

SESSION CONNECTIONS HELP VIEWER

http://localhost:7212/hello.html Zoom: 100%

Hello, Quarto

Meet Quarto

Quarto enables you to weave together content and executable code into a finished document. To learn more about Quarto see <https://quarto.org>.

Meet the penguins



The `penguins` data from the `palmerpenguins` package contains size measurements for 344 penguins from three species observed on three islands in the Palmer Archipelago, Antarctica.

The plot below shows the relationship between

Ln 22, Col 238 Spaces: 2 UTF-8 LF {} Quarto

Positron is ...

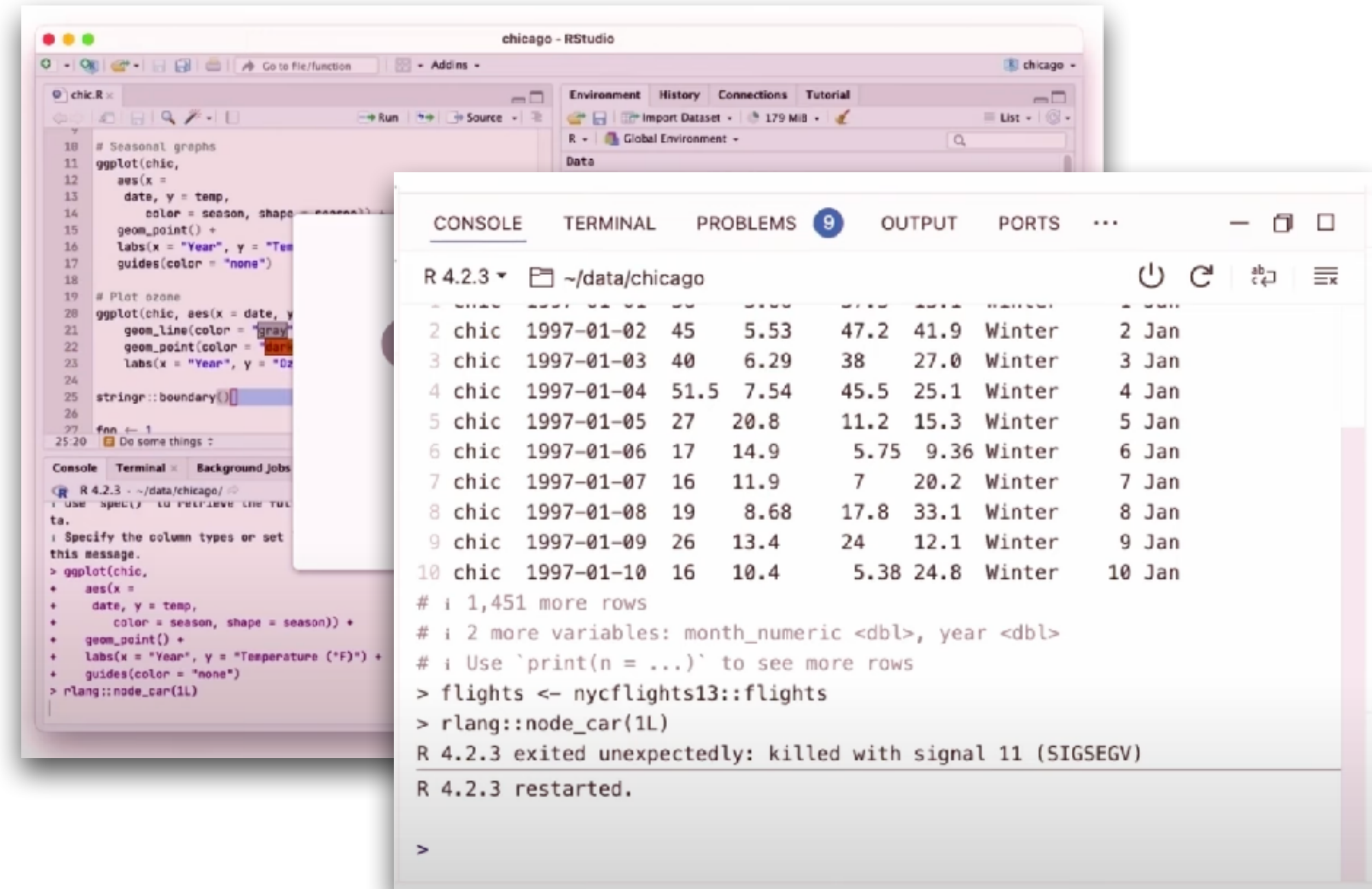
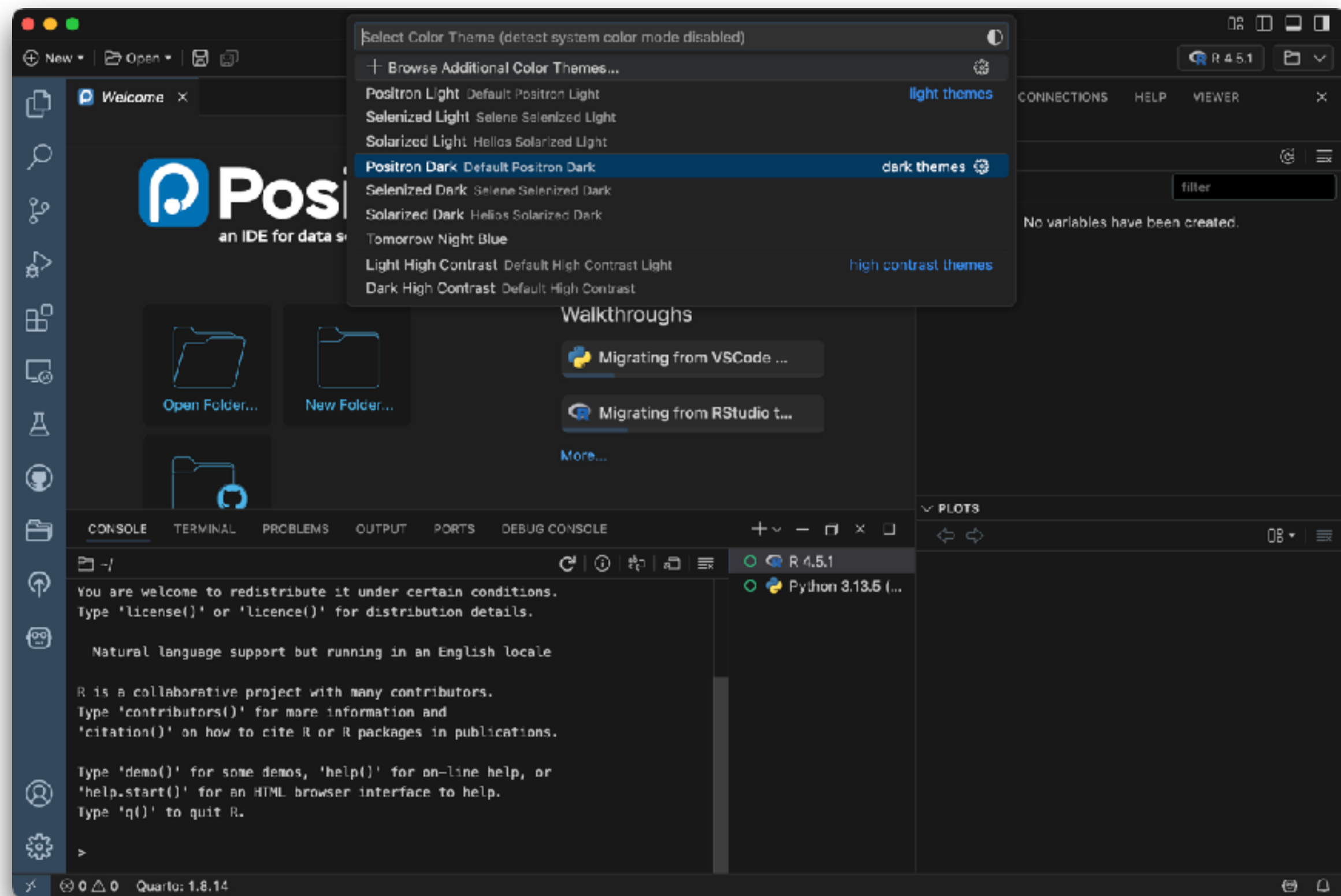
- A next-generation **data science** IDE
- A tool for writing code and exploring data
- Familiar (RStudio-ish) and extensible (soft fork of VS Code)
- Multilingual data science: R and Python (built-in support), Julia (via community contributed extension)
- Plots, variables, console, help, viewer, data explorer, debugging

Should I switch from RStudio to Positron?

- RStudio is not going away. >10 years of engineering has gone into RStudio. It's very stable, completely built-out, and actively gaining AI features (Posit Assistant).
- If you work in both R and Python (or any other language), Positron is probably a good fit.
- If you like to customize your working environment, you'll appreciate the extension ecosystem and the possibility of creating your own.
- Positron is under much more active development.

Why didn't you just do {this other thing}?

- Why not build a polyglot IDE based on RStudio?
- Why not build a VS Code extension?



For more on this: Jonathan McPherson's posit::conf talk [How Positron Works](#)



Workspace is a core concept in Positron

A **workspace** is just a **folder***

Similar to a **Project** in RStudio

Pro tip: work in a **folder** most (all?) of the time

* Or, at least, it can be and often is that simple

New

Open

<

>

Search

R 4.5.1

EXPLORER

NO FOLDER OPENED

You have not yet opened a folder.

Open Folder

Opening a folder will close all currently open editors. To keep them open, [add a folder](#) instead.

You can clone a repository locally.

Clone Repository

To learn more about how to use Git and source control in Positron, [read the VS Code docs](#).

OUTLINE

TIMELINE

QUARTO

Welcome

Positron

an IDE for data science from posit

Open Folder...

New Folder...

New from Git...

Walkthroughs

Migrating from VSC...

Migrating from RSt...

More...

Help

Positron Documentation

CONSOLE

TERMINAL

PROBLEMS

OUTPUT

PORTS

DEBUG CONSOLE

~/

Natural language support but running in an English locale

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.

>

SESSION

VARIABLES

R 4.5.1

filter

No variables have been created.

PLOTS

R 4.5.1

Python 3.13.5 (...)

0 0

Quarto: 1.8.14



Do you trust the authors of the files in this folder?

Positron provides features that may automatically execute files in this folder.

If you don't trust the authors of these files, we recommend to continue in restricted mode as the files may be malicious. See [our docs](#) to learn more.

~/tmp/positron-workshop-project

☐

Trust the authors of all files in the parent folder 'tmp'

No, I don't trust the authors

Browse folder in restricted mode

Yes, I trust the authors

Trust folder and enable all features

R 4.4.3

R 4.5.3

R 4.6.1



New ▾Open ▾Save

EXPLORER

OPEN EDITORS

create.R R

USETHIS

.github

.Rproj.user

.vscode

docs

inst

man

pkgdown

R

addin.R

air.R

author.R

badge.R

block.R

browse.R

ci.R

citation.R

code-of-conduct.R

course.R

coverage.R

cpp11.R

cran.R

create.R

data-table.R

data.R

description.R

directory.R

OUTLINE

TIMELINE

create.R

R > create.R

1 #' Create a package or project

2 #'

3 #' @description

4 #' These functions create an R project:

5 #' * `create\_package()` creates an R package

6 #' * `create\_project()` creates a non-package project, i.e. a data analysis

7 #' project

8 #'

9 #' Both functions can be called on an existing project; you will be asked before

10 #' any existing files are changed.

11 #'

12 #' @inheritParams use_description

13 #' @param fields A named list of fields to add to `DESCRIPTION`, potentially

CONSOLE

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~/rrr/usethis

R is free software and comes with ABSOLUTELY NO WARRANTY.
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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.

> devtools::load_all()

i Loading usethis

>

main*

usethis

Quarto: 1.7.31

Ln 1, Col 1

Spaces: 2

UTF-8

LF

R

Select Interpreter Session

R 4.4.2 Currently Selected
/Library/Frameworks/R.framework/Versions/4.4-arm64/Resource...

Active Interpreter Sessions

New Interpreter Session...

R 4.4.2

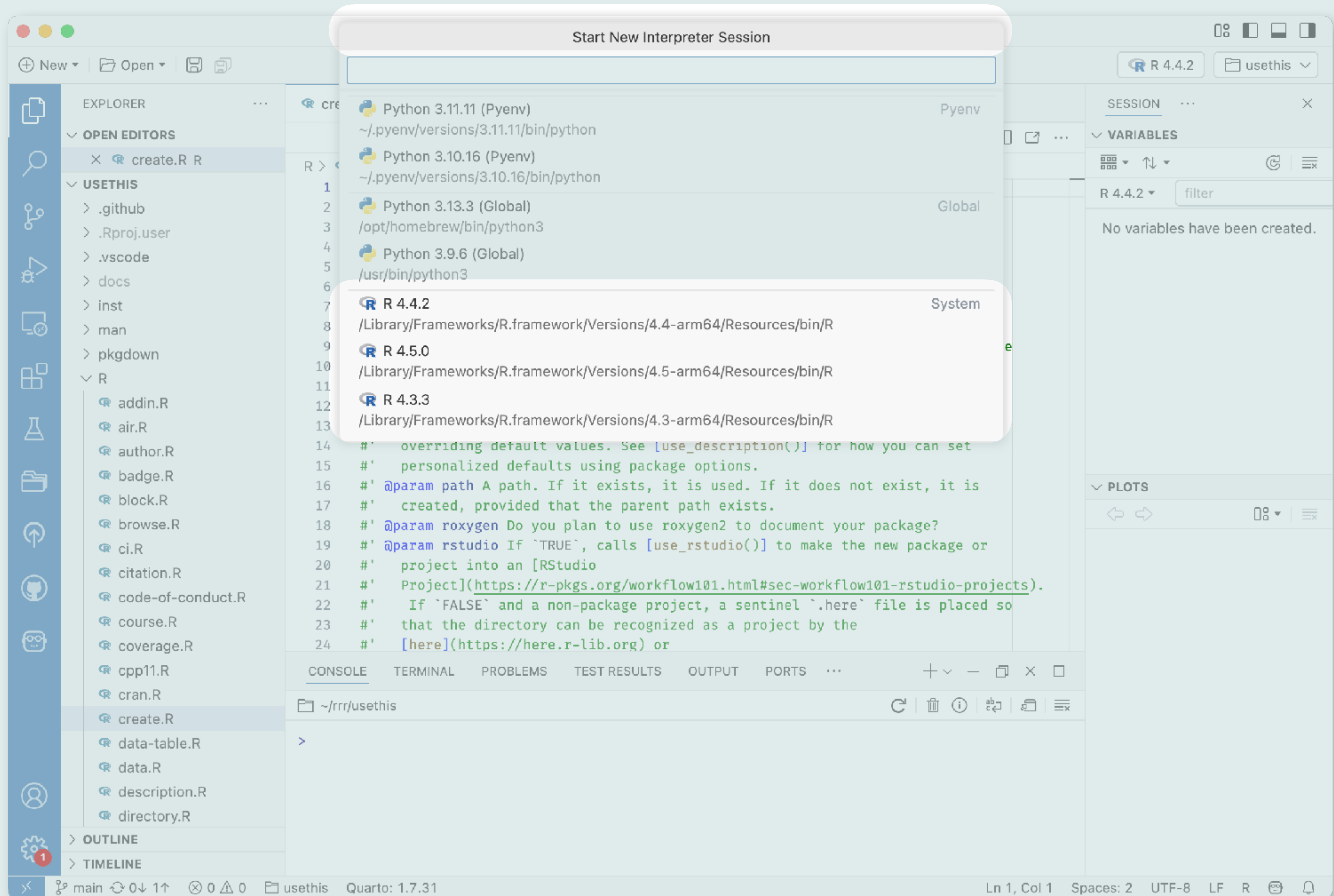
usethis ▾

SESSION

HELP

...

×



create.R — usethis

0%

New

Open

<

>

Search

R 4.4.2

usethis

EXPLORER

...

OPEN EDITORS

create.R R

USETHIS

> .github

> .Rproj.user

> .vscode

> docs

> inst

> man

> pkgdown

R

addin.R

air.R

author.R

badge.R

block.R

browse.R

ci.R

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code-of-conduct.R

course.R

coverage.R

cpp11.R

cran.R

create.R

data-table.R

data.R

description.R

directory.R

OUTLINE

TIMELINE

create.R

```
R > create.R > ...
1 #' Create a package or project
2 #'
3 #' @description
4 #' These functions create an R project:
5 #' * `create_package()` creates an R package
6 #' * `create_project()` creates a non-package project, i.e. a data analysis
7 #' project
8 #'
9 #' Both functions can be called on an existing project; you will be asked before
10 #' any existing files are changed.
11 #'
12 #' @inheritParams use_description
13 #' @param fields A named list of fields to add to `DESCRIPTION`, potentially
14 #'   overriding default values. See [use_description()] for how you can set
15 #'   personalized defaults using package options.
16 #' @param path A path. If it exists, it is used. If it does not exist, it is
17 #'   created, provided that the parent path exists.
18 #' @param roxygen Do you plan to use roxygen2 to document your package?
19 #' @param rstudio If `TRUE`, calls [use_rstudio()] to make the new package or
20 #'   project into an [RStudio
21 #'   Project](https://r-pkgs.org/workflow101.html#sec-workflow101-rstudio-projects).
22 #'   If `FALSE` and a non-package project, a sentinel `.here` file is placed so
23 #'   that the directory can be recognized as a project by the
24 #'   [here](https://here.r-lib.org) or
```

CONSOLE

TERMINAL

PROBLEMS

TEST RESULTS

OUTPUT

PORTS

...

~/rrr/usethis

>

SESSION

...

X

VARIABLES

R 4.4.2

filter

No variables have been created.

PLOTS

main

0↓ 1↑

0 0

usethis

Quarto: 1.7.31

Ln 1, Col 1

Spaces: 2

UTF-8

LF

R

R 4.4.2

R 4.5.0

R 4.5.0

R 4.3.3



rig

Standalone tool to manage multiple R installations

Not part of Positron, but a great complement

Especially important for macOS users

<https://github.com/r-lib/rig>

Positron defaults to the "blank slate" lifestyle

```
R --no-save --no-restore-data
```

New

Open

<

>

Search

R 4.4.2

usethis

EXPLORER

OPEN EDITORS

create.R R

USETHIS

> .github

> .Rproj.user

> .vscode

> docs

> inst

> man

> pkgdown

R

addin.R

air.R

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PLOTS

main*

usethis

Quarto: 1.7.31

Ln 1, Col 1

Spaces: 2

UTF-8

LF

R



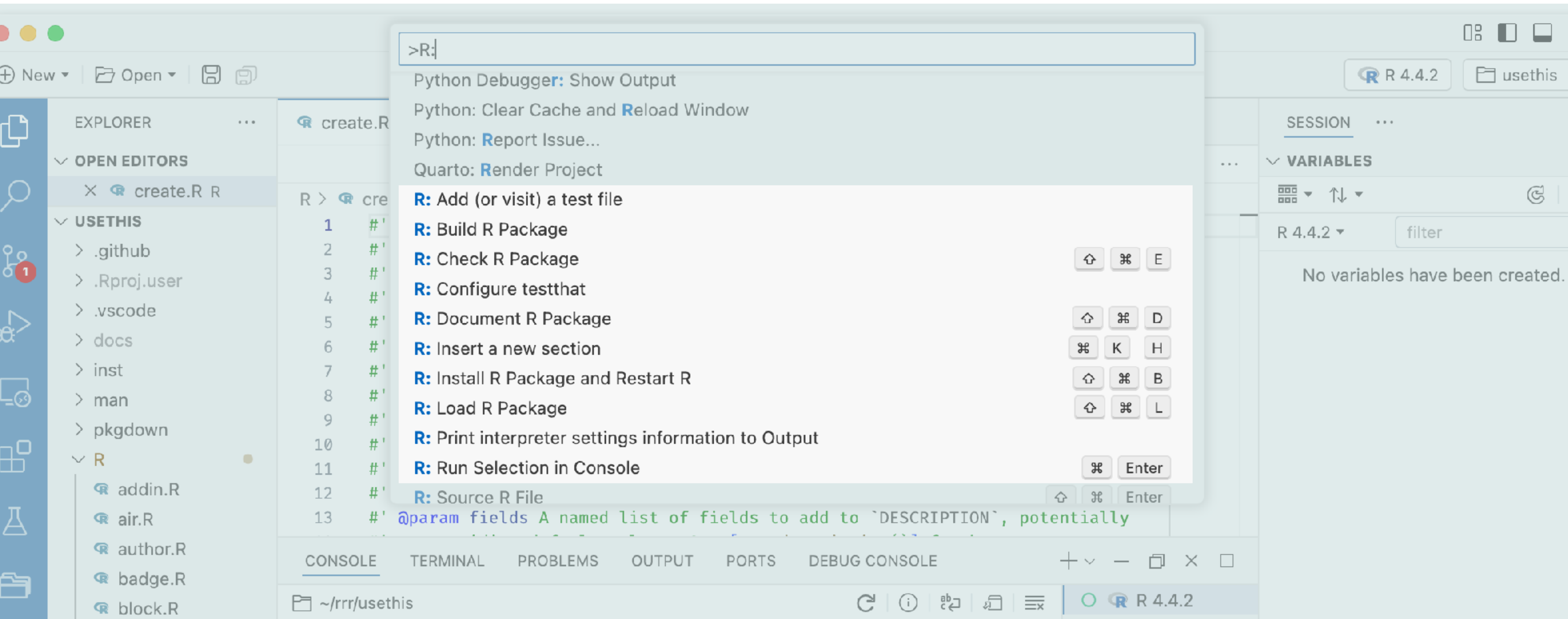
The

command palette

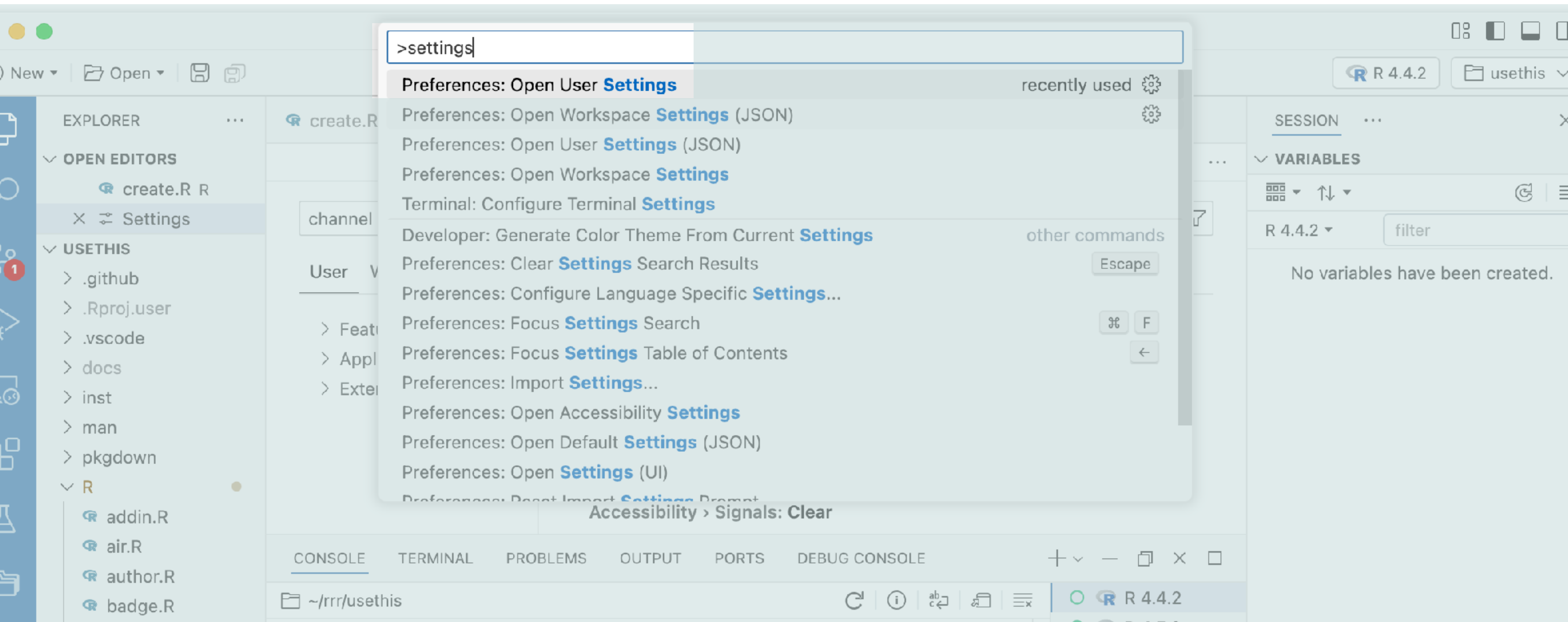
is a core concept in Positron

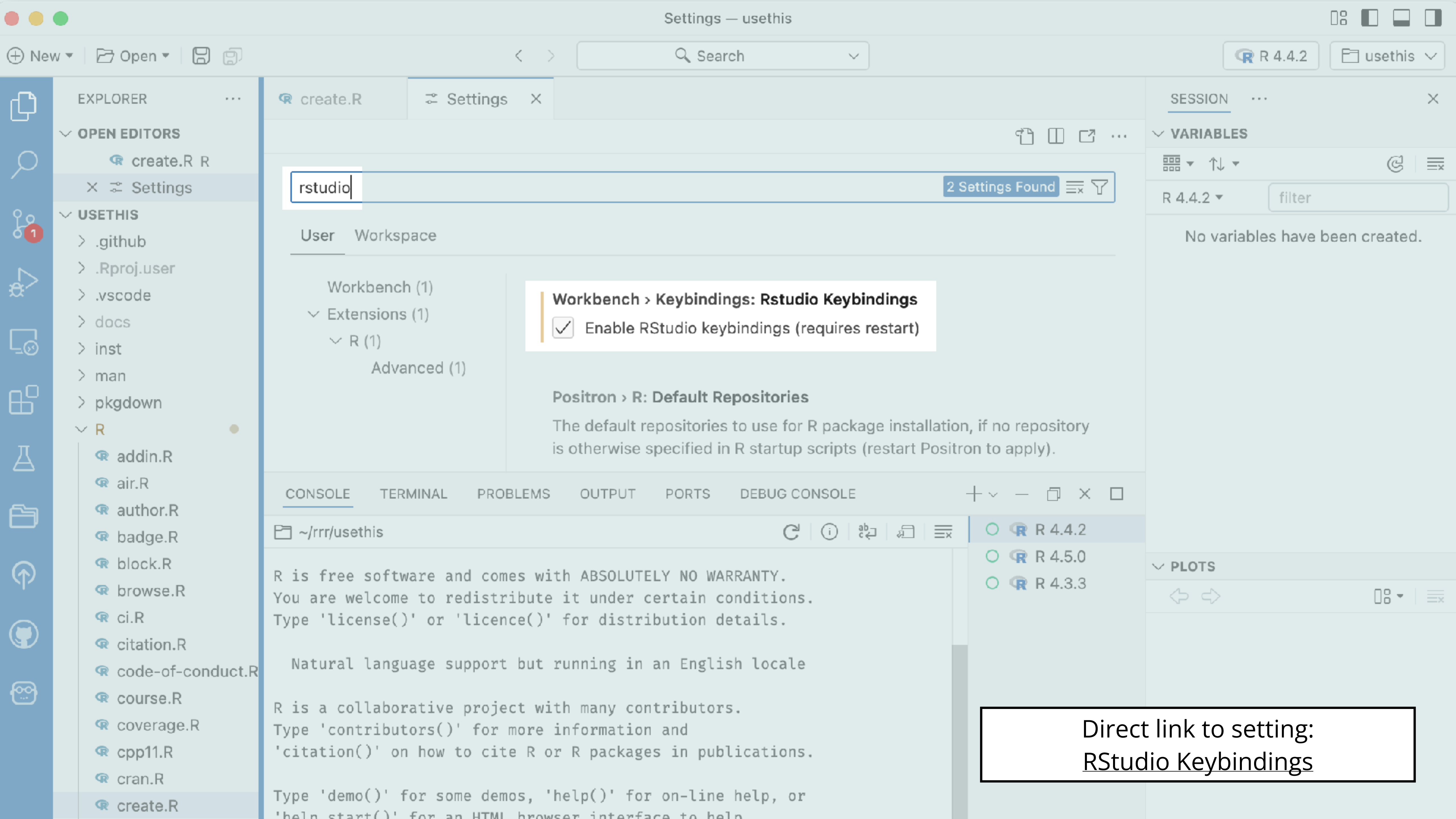
Ctrl/Cmd + Shift + P

Ctrl/Cmd + Shift + P



Ctrl/Cmd + Shift + P





Workbench > Keybindings: Rstudio Keybindings

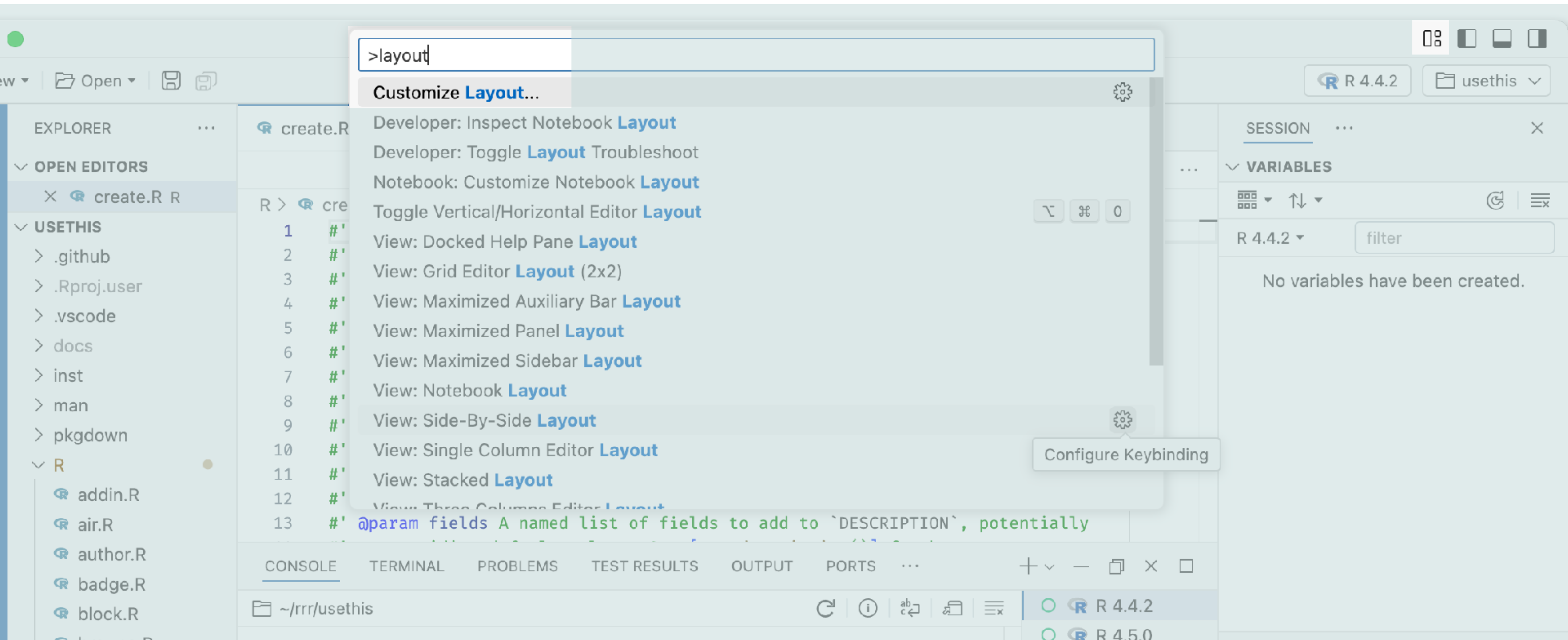
☒ Enable RStudio keybindings (requires restart)

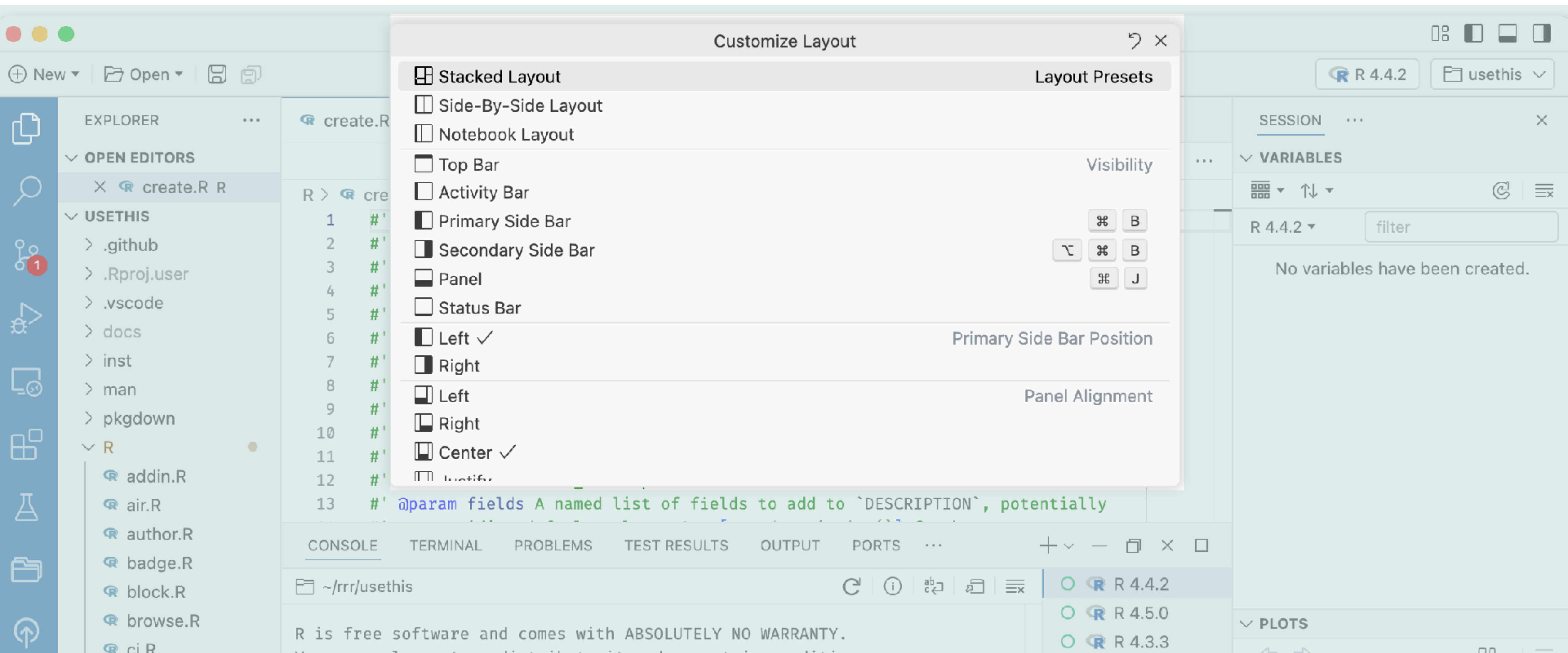
Positron > R: Default Repositories

The default repositories to use for R package installation, if no repository is otherwise specified in R startup scripts (restart Positron to apply).

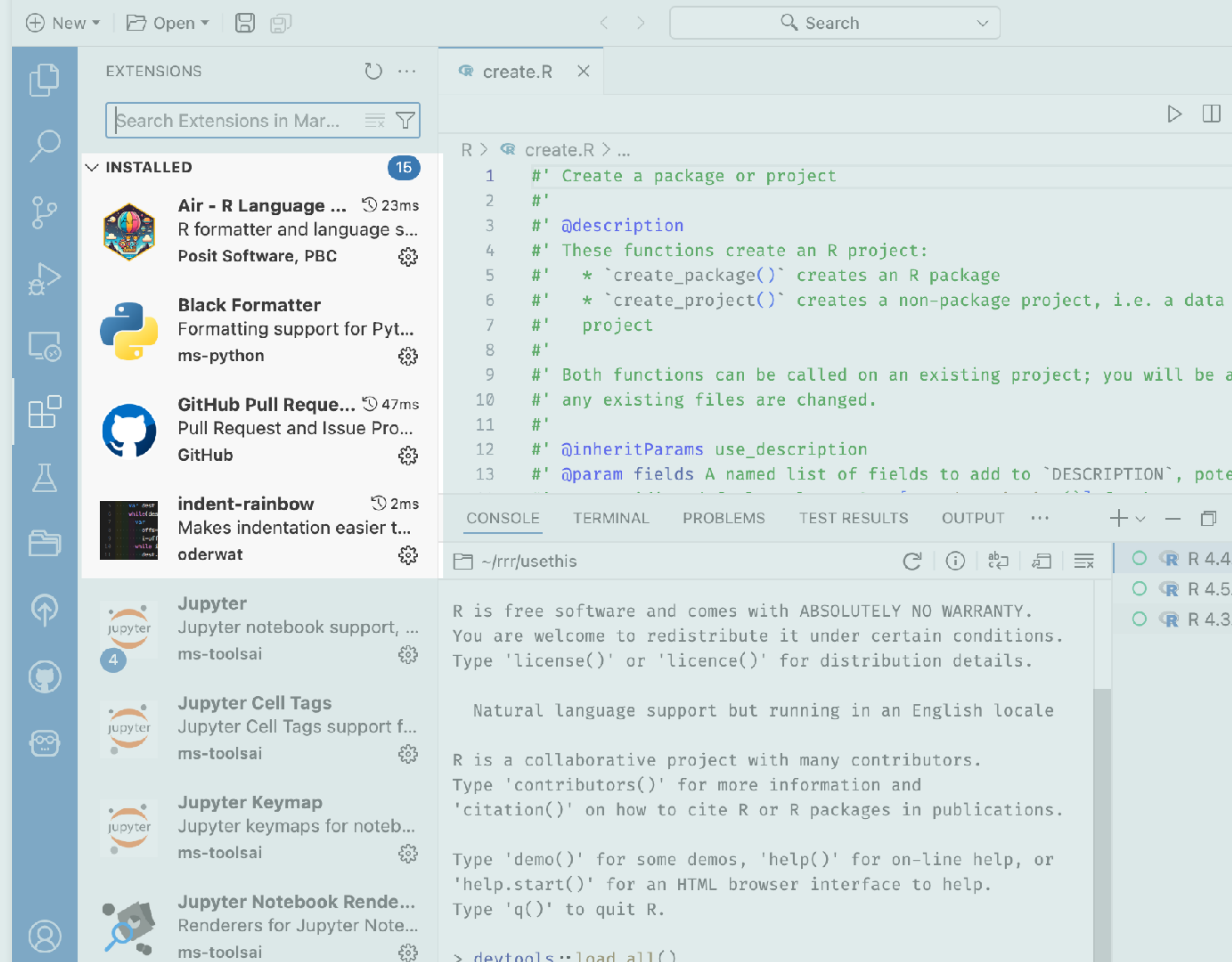
Direct link to setting:
RStudio Keybindings

Ctrl/Cmd + Shift + P





Install extensions from Open VSX



Your turn

Install (or update!) Positron and some packages

- Latest released version: <https://positron.posit.co/download>
- `install.packages(c("tidyverse", "palmerpenguins", "useethis"))`