



Quarto + Positron

Part of "Introduction to Positron" workshop

Posit Software, PBC



Positron is Quarto-ready out-of-the-box

- Bundles Quarto CLI (or uses Quarto it finds on your path)
- Bundles Quarto VS Code Extension

Demo

Basic Workflow

- Open `hello.qmd`
- Preview button (aka Render button in RStudio)
 - Quarto commands are run in Terminal pane
 - Preview opens in Viewer pane
- Command: **Quarto: Preview format...**

Preview button

hello.qmd — positron-workshop-project

Search

SESSION HELP VIEWER CONNECTIONS

← → ↺ http://localhost:6004/ Zoom: 100%

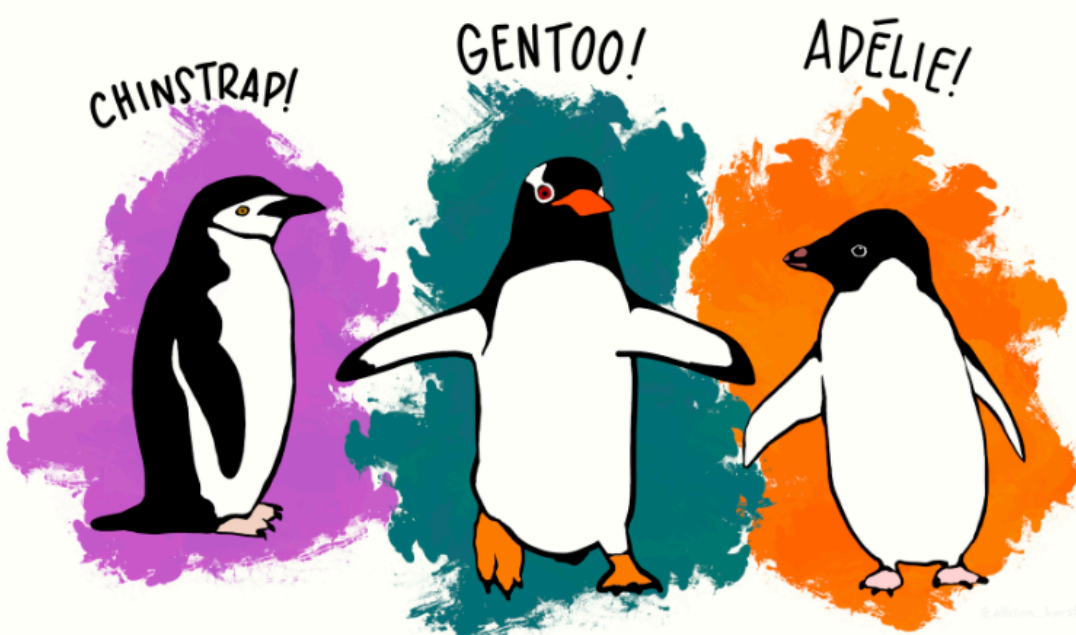
Hello, Quarto

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



[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 flipper and bill

Quarto version

Runs quarto preview in Terminal

hello.qmd

Preview Render on Save Source Visual

Insert Code Cell

hello.qmd > load-packages

```
1 ---
2 title: "Hello, Quarto"
3 format:
4   html: default
5   pdf: default
6 ---
7
8 {r}
9 #| label: load-packages
10 #| include: false
11
12 library(tidyverse)
13 library(palmerpenguins)
14
15
16 ## Meet Quarto
17
18
19
20
21
22
```

CONSOLE TERMINAL PROBLEMS OUTPUT

```
posit/positron-workshop-project $ quarto preview /Users/charlottewickham/Document
s/posit/positron-workshop-project/hello.qmd --no-browser --no-watch-inputs
title: Hello, Quarto

Output created: hello.html

Watching files for changes
Browse at http://localhost:6004/
Listening on http://127.0.0.1:6004/
```

NewOpen

hello.qmd

PreviewRender on SaveSource

hello.qmd > ...
1 ---
2 title: "Hello, Quarto"
3 format:
4 html: default
5 pdf: default
6 ---
7
8 {r}
9 #| label: load-packages
10 #| include: false
11

CONSOLETERMINAL
posit/positron-workshop-project \$
ers/charlottewickham/Documents/posit/positron-worksh
op-project/hello.qmd --no-browser --no-watch-inputs

pandoc
to: html
output-file: hello.html
standalone: true
section-divs: true
html-math-method: mathjax
wrap: none
default-image-extension: png
variables: {}

metadata
document-css: false
link-citations: true
date-format: long
lang: en
title: Hello, Quarto

Output created: hello.html

Watching files for changes
Browse at http://localhost:3482/
Listening on http://127.0.0.1:3482/

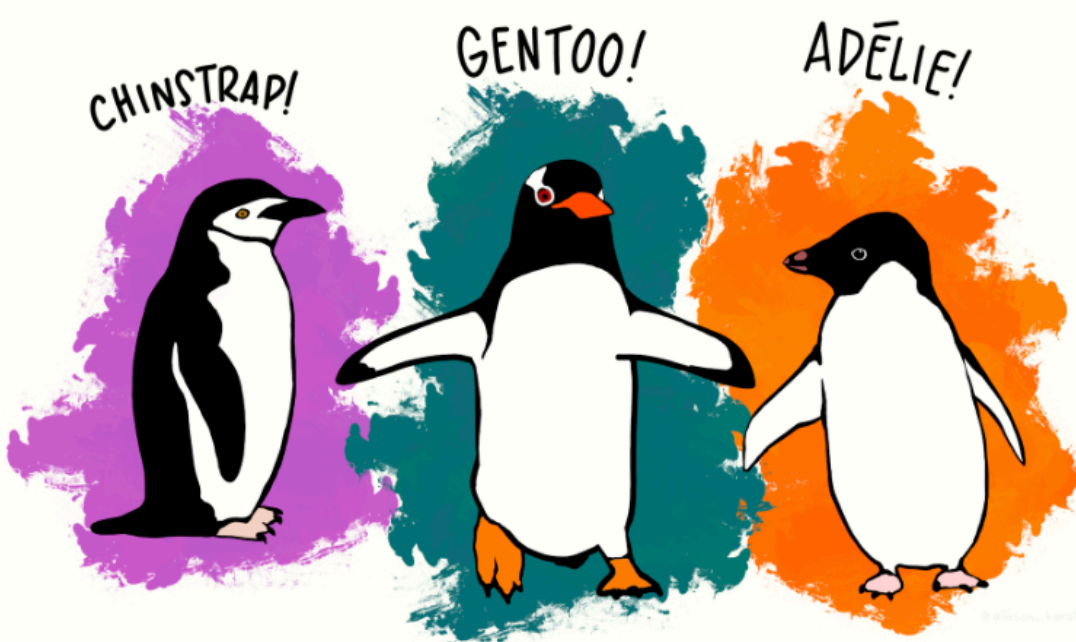
Declared Formats
Preview HTML
format: html
Preview PDF (LaTeX)
format: pdf
Preview PDF (Typst)
format: typst
Preview MS Word
format: docx
Other Formats

Command:
Quarto: Preview format ...

R 4.3.3positron-workshop-project

Zoom: 100%

Content and executable code
about Quarto see

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 flipper and bill

Charlotte Wickham (1 week ago) Ln 5, Col 15 Spaces: 2 UTF-8 LF {} Quarto

Your turn

Quarto Commands

- Open Command Palette
- Skim **Quarto:** actions
- Pick one and try it

3_m 00_s

NewOpenSaveCopy

hello.qmd

PreviewRender on SaveSource

hello.qmd > ...
1 ---
2 title: "Hello, Quarto"
3 format:
4 html: default
5 pdf: default
6 ---
7
8 > Run Cell | Run Next Cell
9 ```{r}
10 #| label: load-packages
11 #| include: false

CONSOLETERMINAL...
posit/positron-workshop-project \$ quarto preview /Users/charlottewickham/Documents/posit/positron-workshop-project/hello.qmd --no-browser --no-watch-inputs
4/4 [plot-penguins]
output file: hello.knit.md

pandoc
to: html
output-file: hello.html
standalone: true
section-divs: true
html-math-method: mathjax
wrap: none
default-image-extension: png
variables: {}

metadata
document-css: false
link-citations: true
date-format: long
lang: en
title: Hello, Quarto

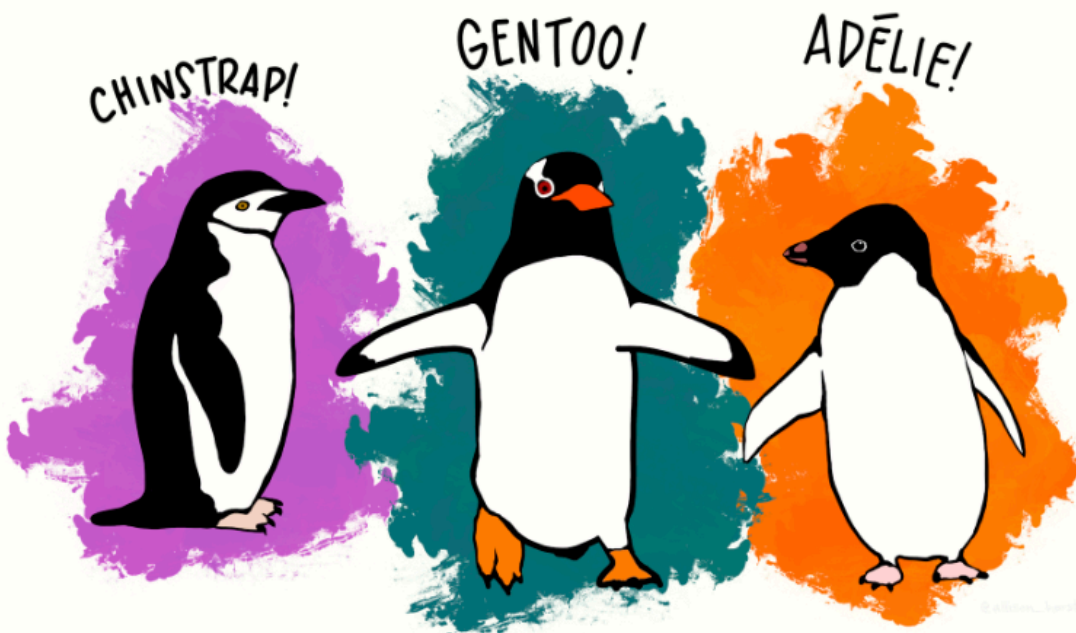
Output created: hello.html

Watching files for changes

> Quarto:
Quarto: Preview Format...
Explorer: Focus on Quarto View
Quarto: Clear Cache...
Quarto: Create Project
Quarto: Edit in Visual Mode
Quarto: Edit Mode
Quarto: Format Cell
Quarto: Go to Next Cell
Quarto: Go to Previous Cell
Quarto: Insert Code Cell
Quarto: New Document
Quarto: New Notebook (ipynb)
Quarto: New Presentation
Quarto: Pin Assist Panel
Quarto: Preview

recently used
F1 other commands
F4
K F
PageDown
PageUp
I

R 4.3.3positron-workshop-project
Zoom: 100%
have together content and
shed document. To learn more
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 flipper and
bill lengths of these penguins

main00Quarto: 1.8.11Charlotte Wickham (1 week ago)Ln 5, Col 15Spaces: 2UTF-8LF{}Quarto

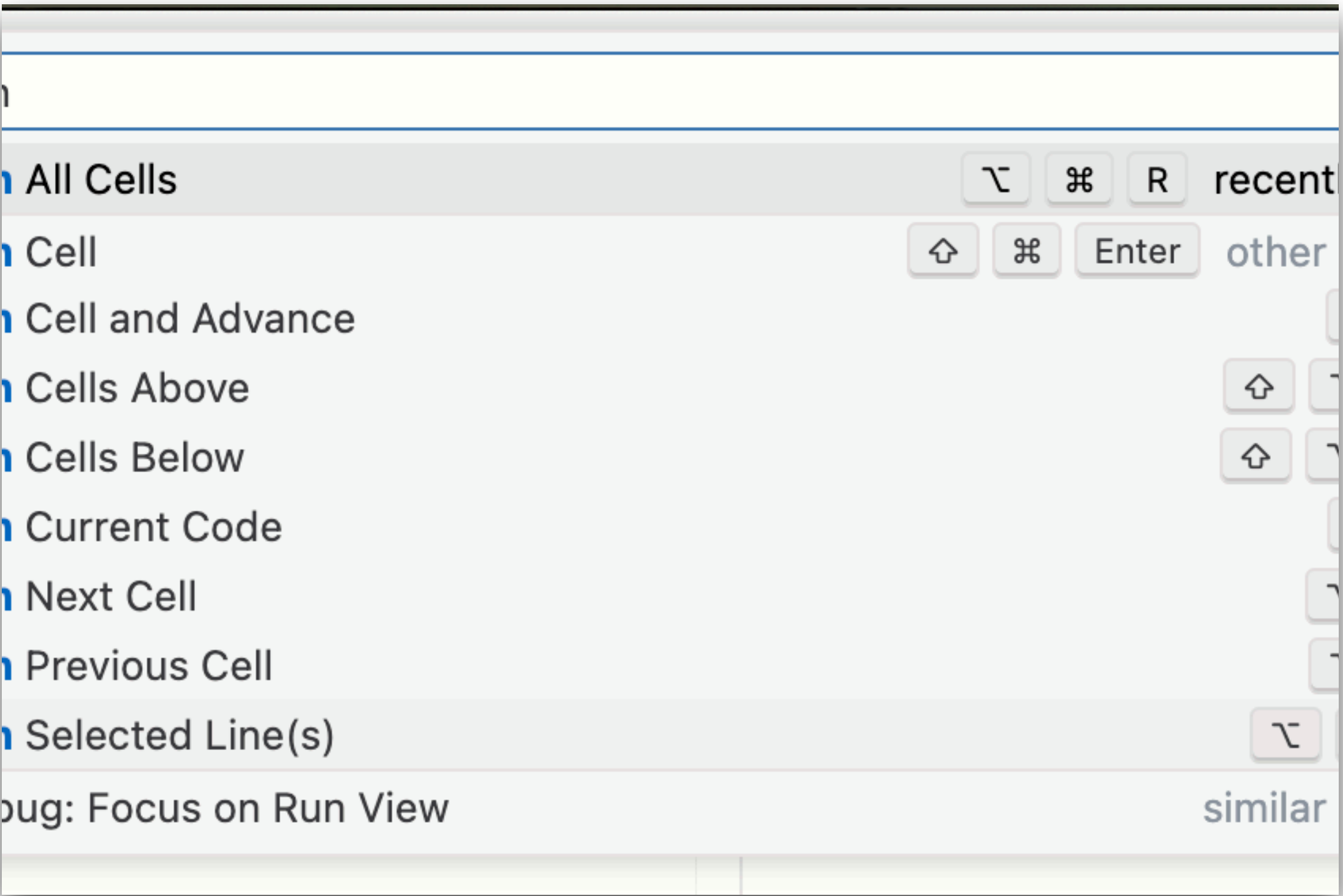
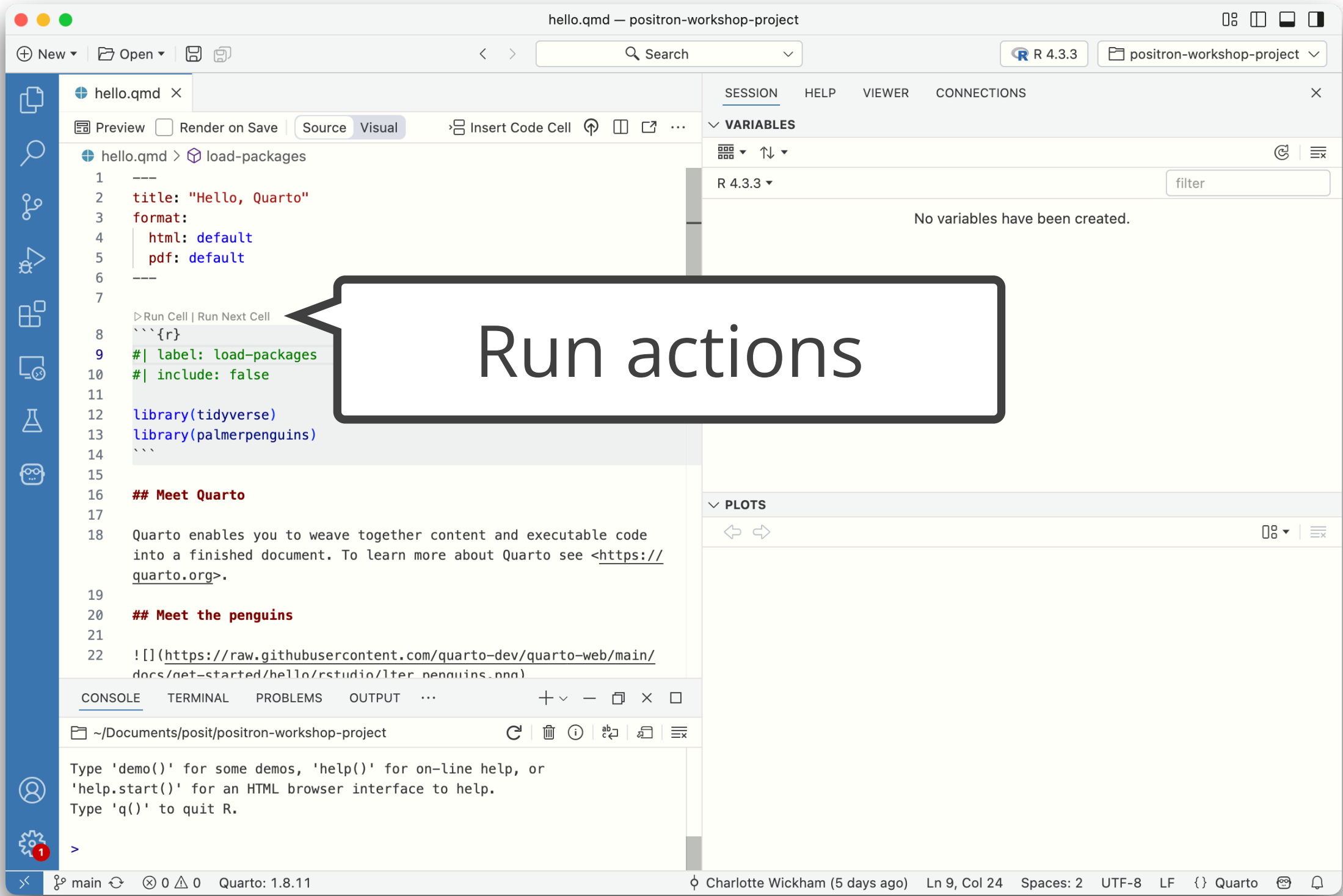
Demo

Document Workflow

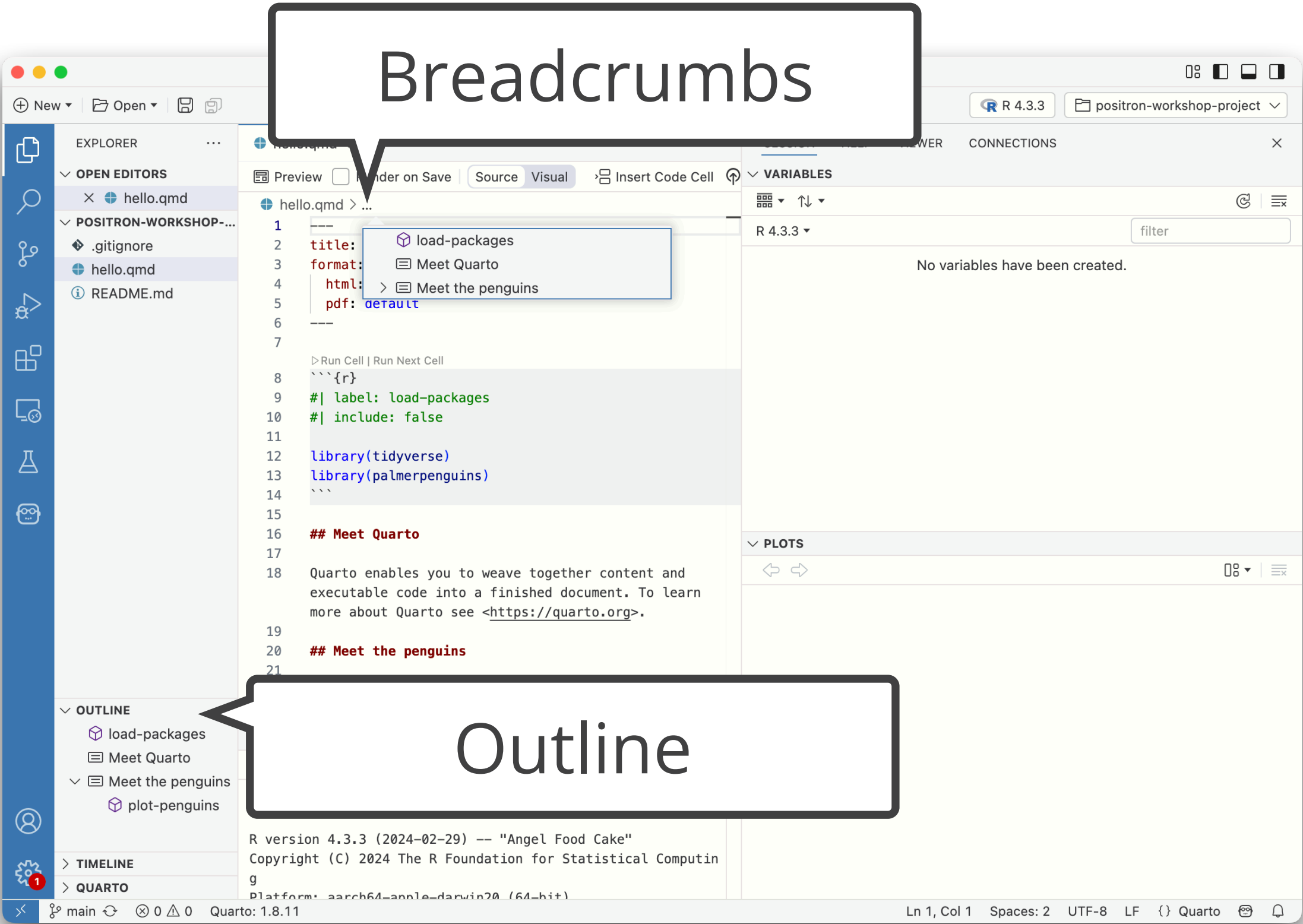
- Code cells
 - Run Selection: `cmd/ctrl+enter`
 - Run Cell: `shift+cmd/ctrl+enter`
 - Command Palette: **Quarto: Run ...**
- Navigation: Breadcrumbs, Outline pane, Command palette: **Go to Symbol in Editor**
- Visual mode
 - Insert Anything: `/`

Code Cells

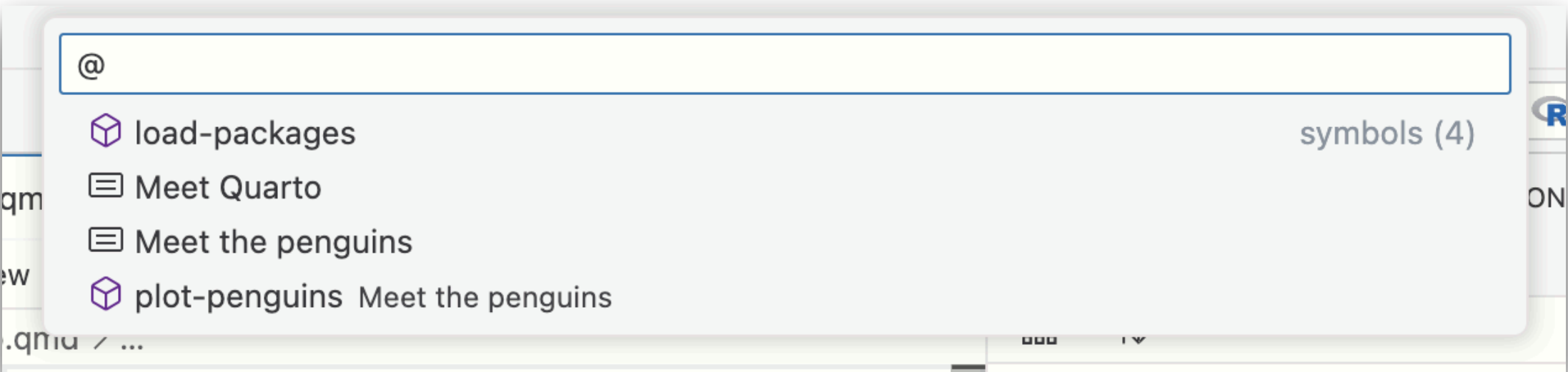
Commands:
Quarto: Run ...



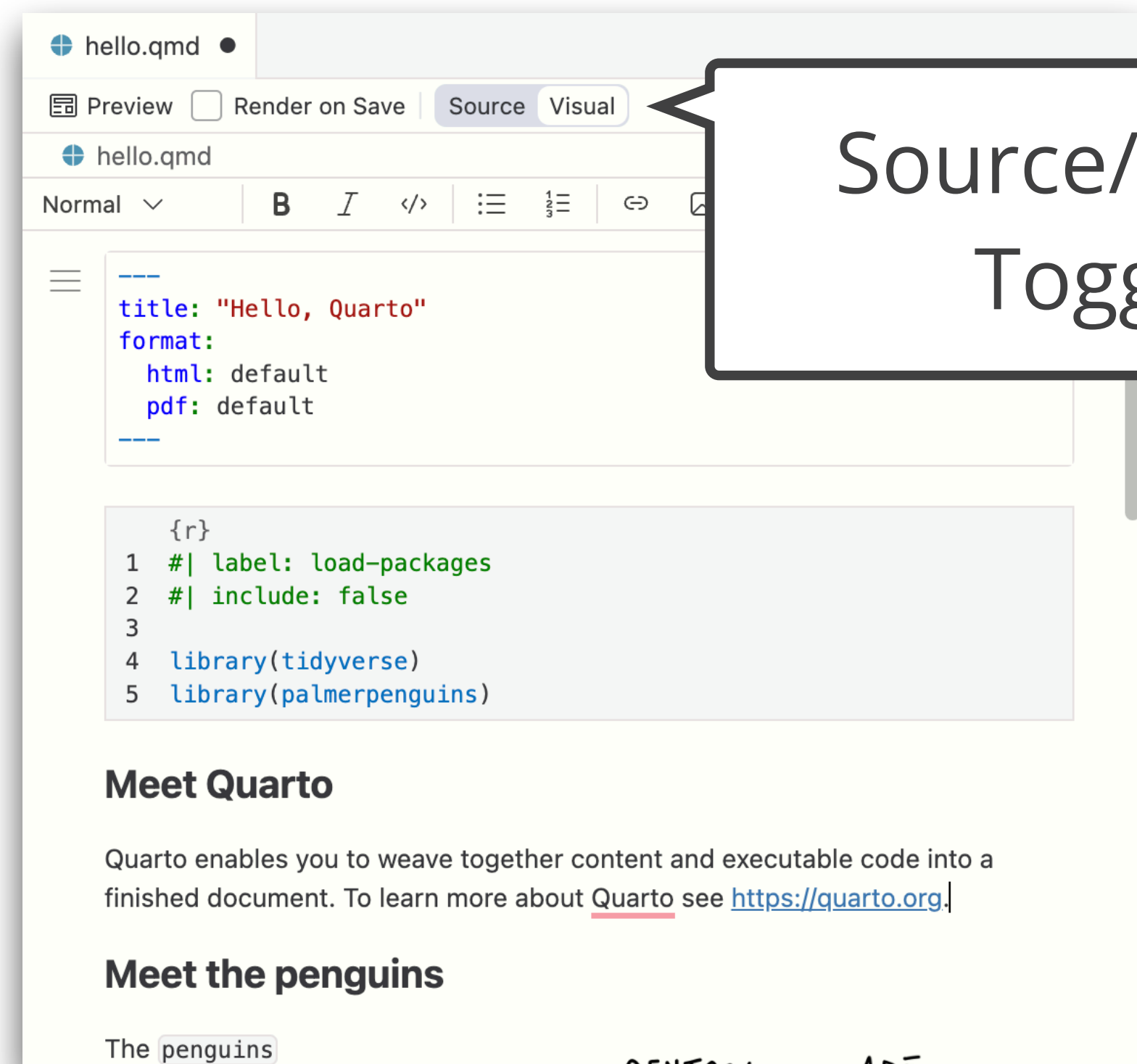
Navigation



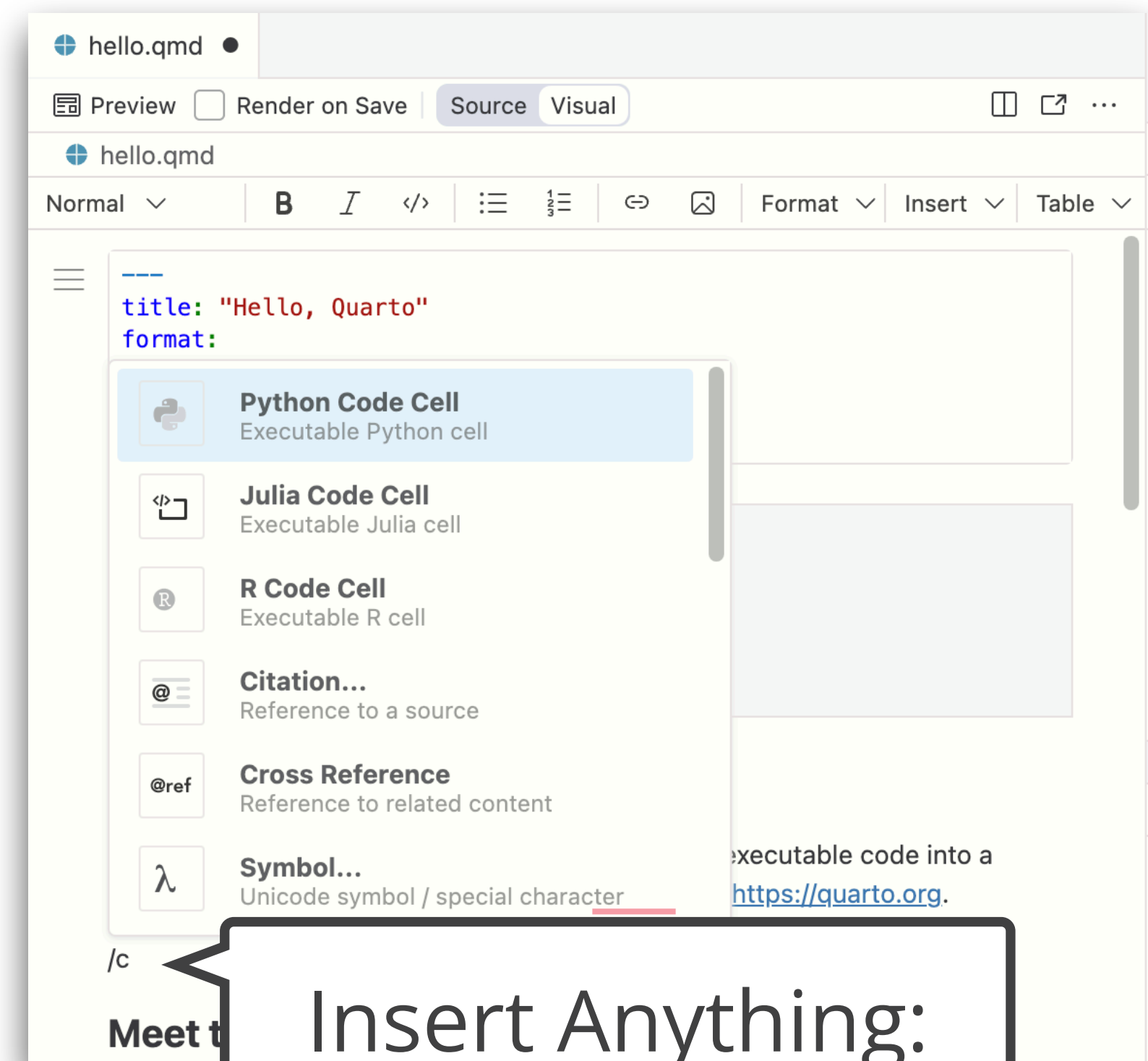
Command:
Go to Symbol in Editor



Visual Mode



Source/Visual
Toggle



Insert Anything:
type /

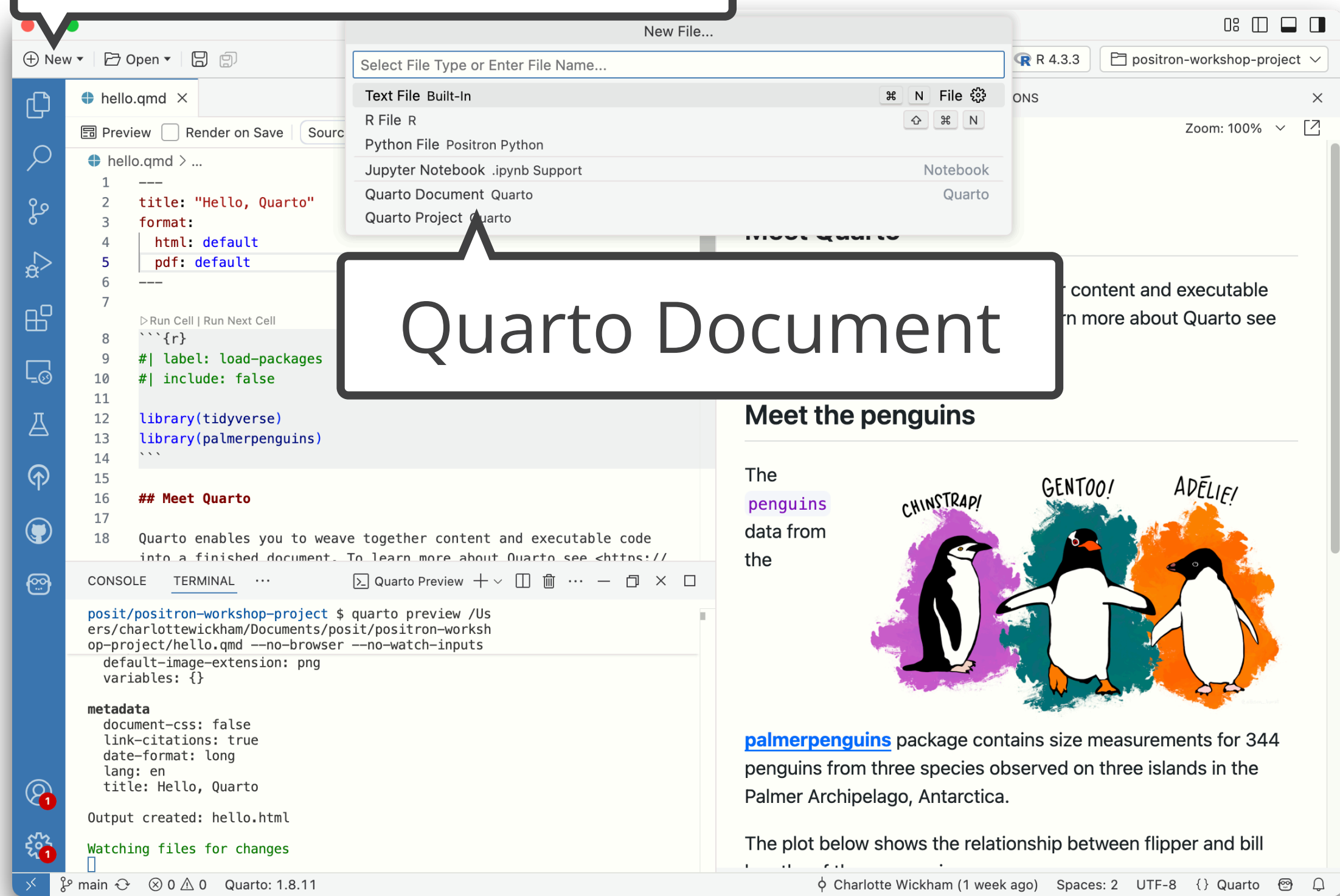
Your turn

Authoring

5_m 00_s

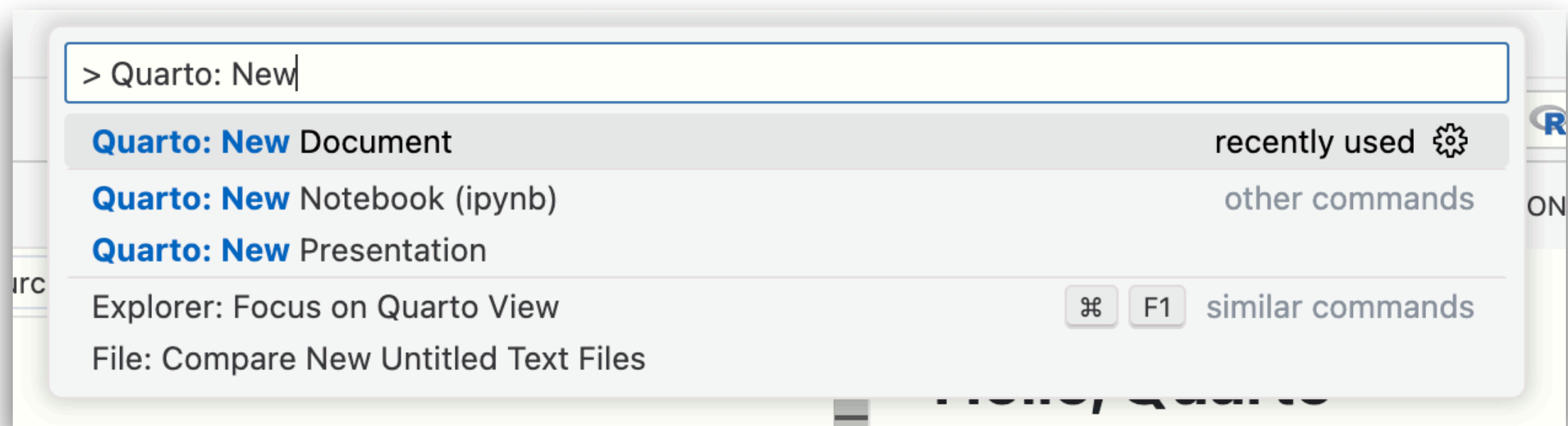
- Figure out how to:
 - Create a new Quarto document
 - Insert a code cell
- Then, practice anything else you've seen

New > New File...



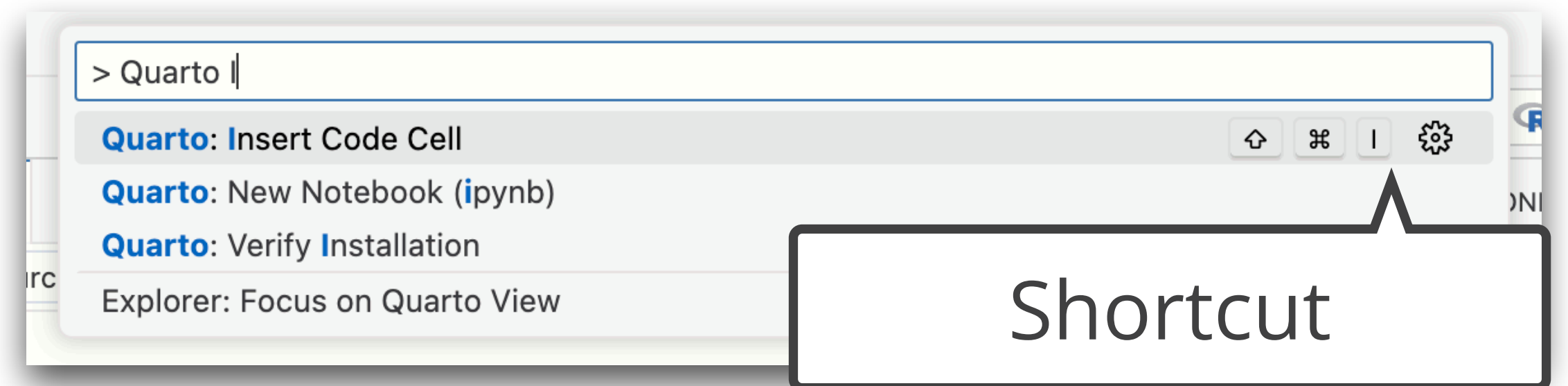
Quarto Document

Command:
Quarto: New Document





Command:
Quarto: Insert Code Cell



What's different?

- No inline preview of code output (aka **Chunk Output Inline** in RStudio)
- No push button publishing except to Posit Connect via Posit Publisher extension
- RMarkdown (.Rmd) files preview via Quarto.
Command palette: **R: Render with Document RMarkdown**

Updating Quarto

- **Strategy 1:** Rely entirely on Positron's bundled Quarto
 - Get updates as Positron is updated (⚙ Setting: Update: Auto Update)
 - Currently, no easy way to use this version outside of Positron
- **Strategy 2:** Manage Quarto outside of Positron
 - Update manually from quarto.org
 - Positron will prefer the manually installed version, even if it is older
- You can specify a specific Quarto with ⚙ Setting: Quarto: Path

Demo

Git Pane

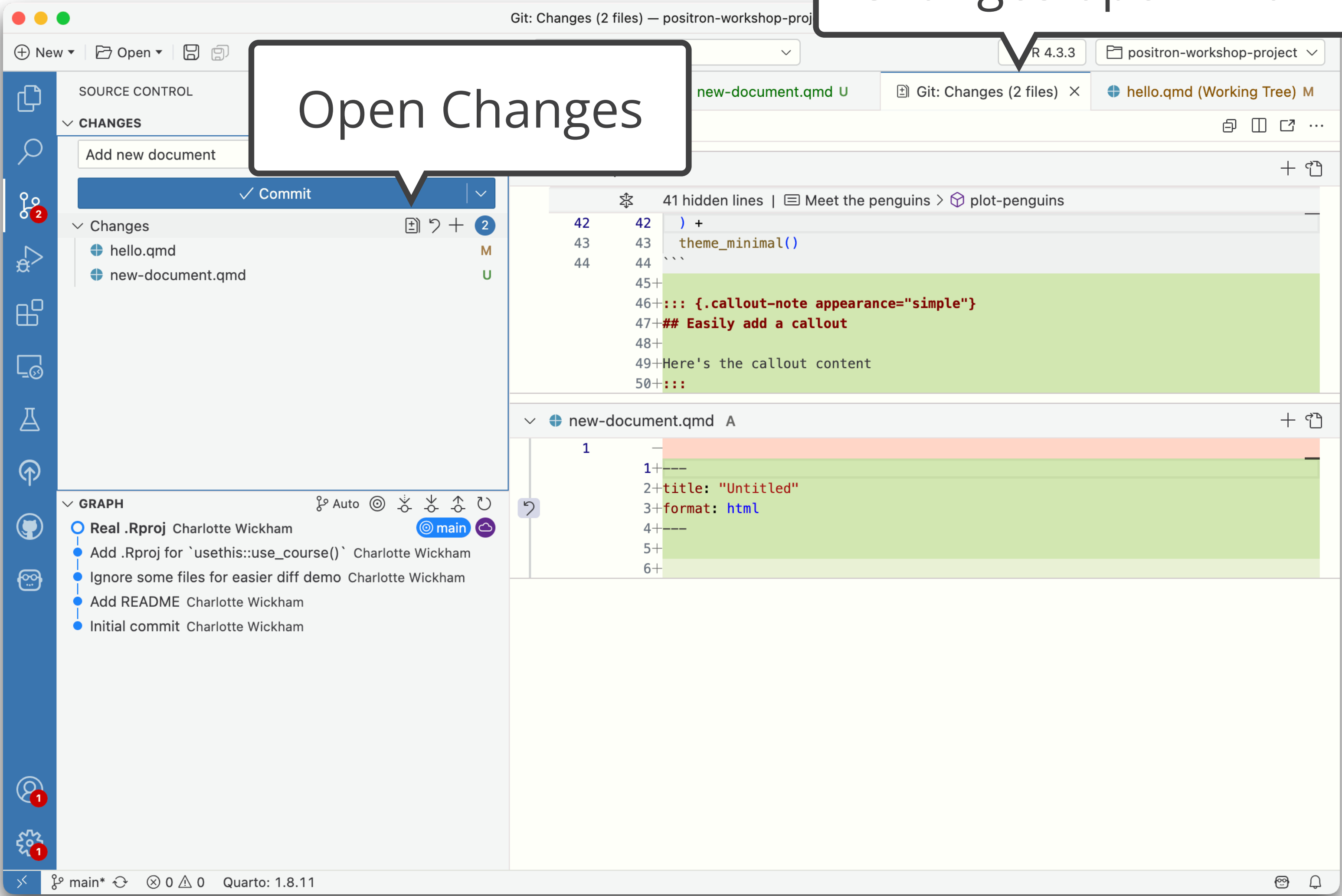
- Changes Pane
 - **Open Changes** closest to RStudio's diff
 - Changes open in Editor
 - Add, Commit
- Graph Pane
 - Pull/Push
 - Like RStudio's History view
- Current Branch
 - Click to get branch actions

Examine changes

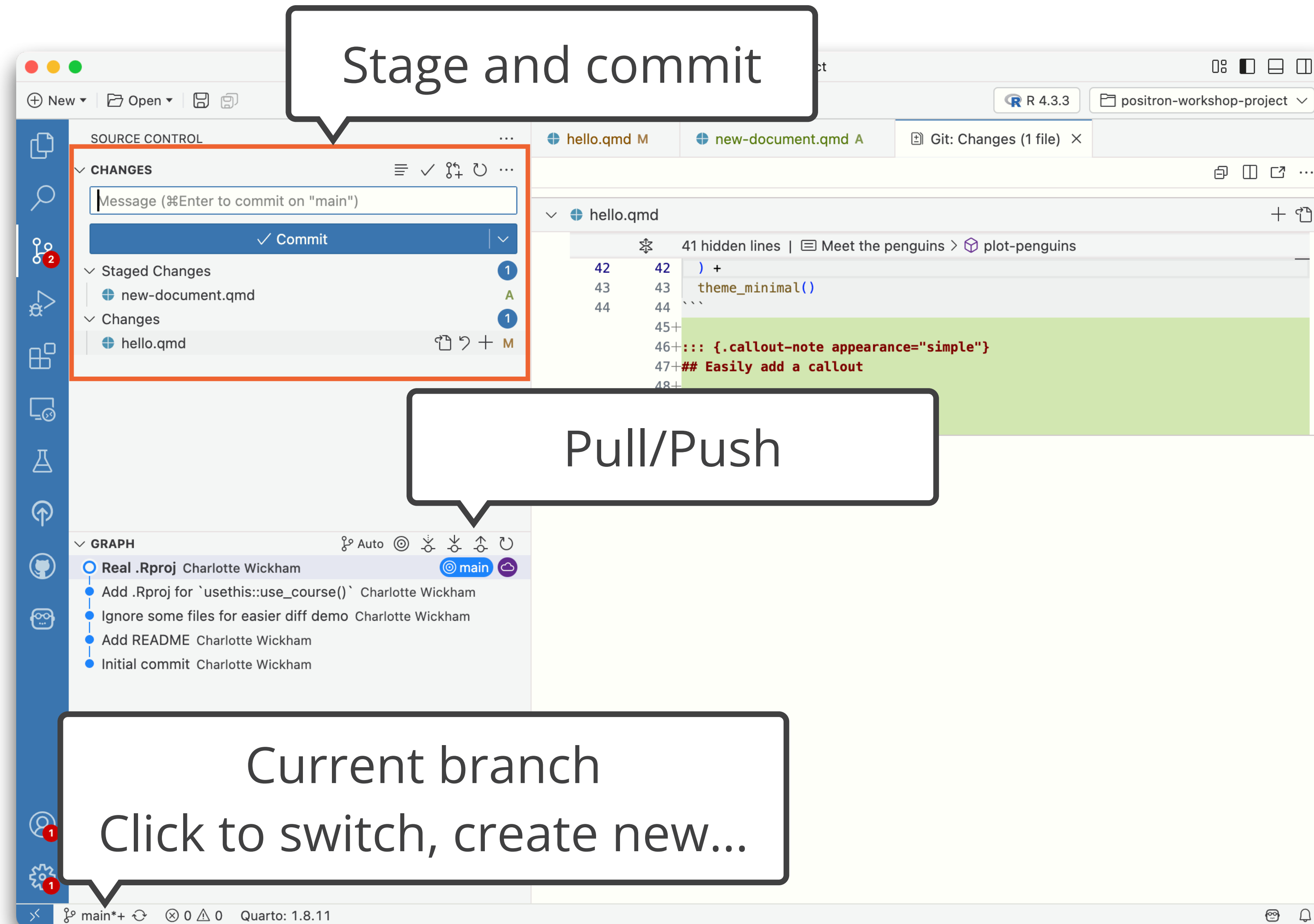
Changes open in an Editor

Git Pane

Open Changes



Git workflow



Learn more

Quarto docs: Guide > Tools > Positron

<https://quarto.org/docs/tools/positron/>

VS Code docs: Source Control

<https://code.visualstudio.com/docs/sourcecontrol/overview>