Quarto + Positron

Part of "Doing data science in Positron" workshop

Posit Software, PBC

CC BY SA

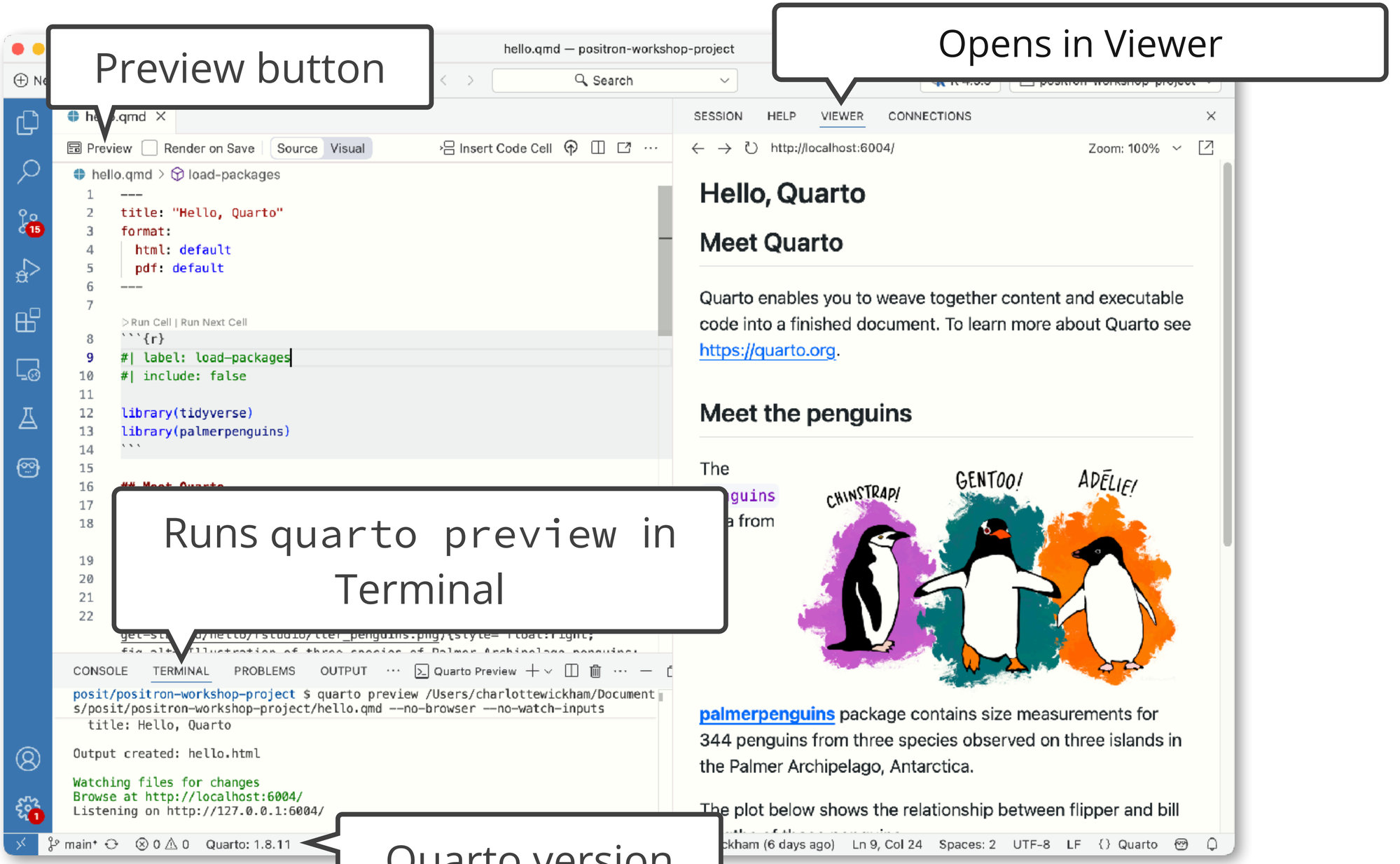
Positron is Quarto-ready out-of-the-box

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

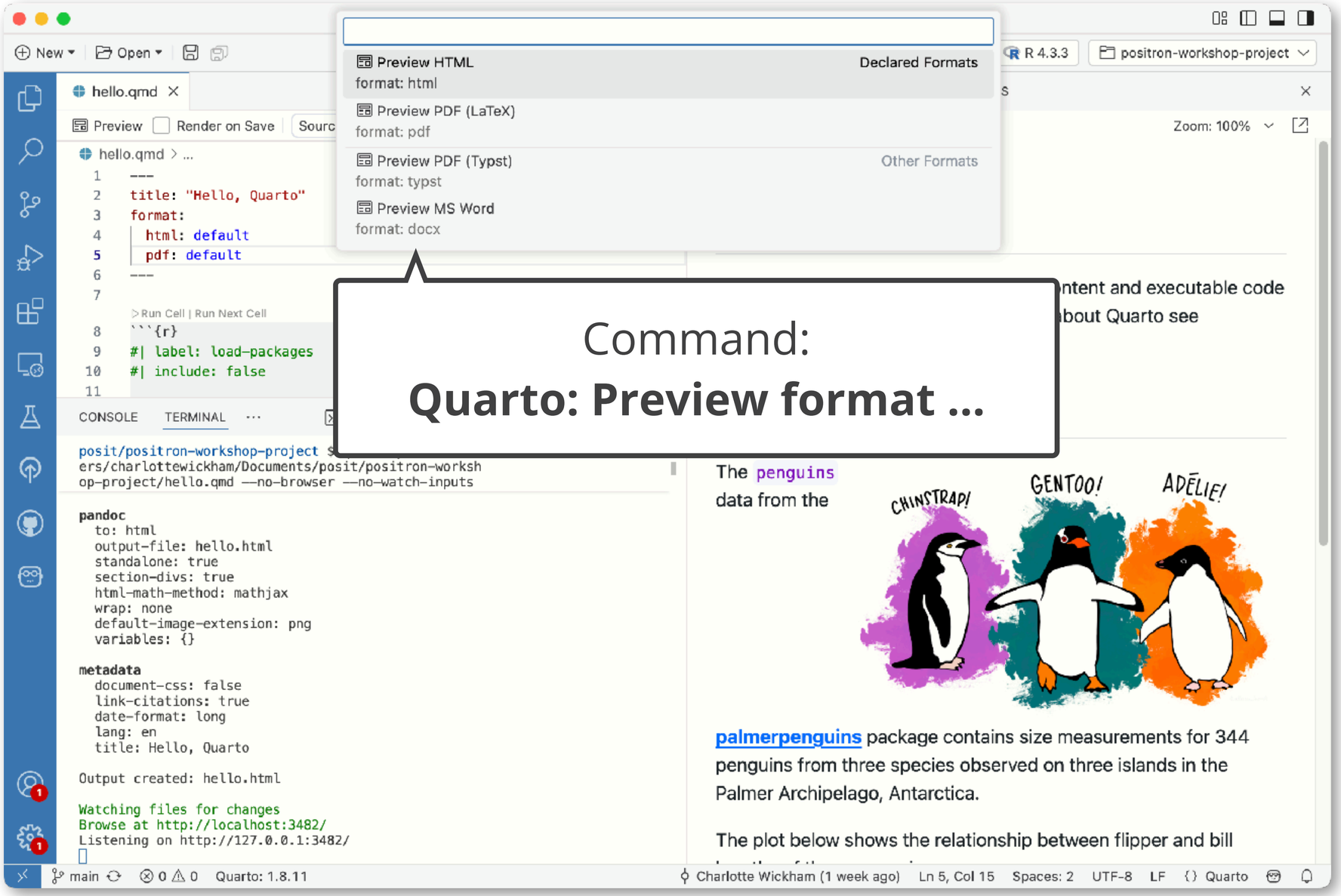
Demo

Basic Workflow

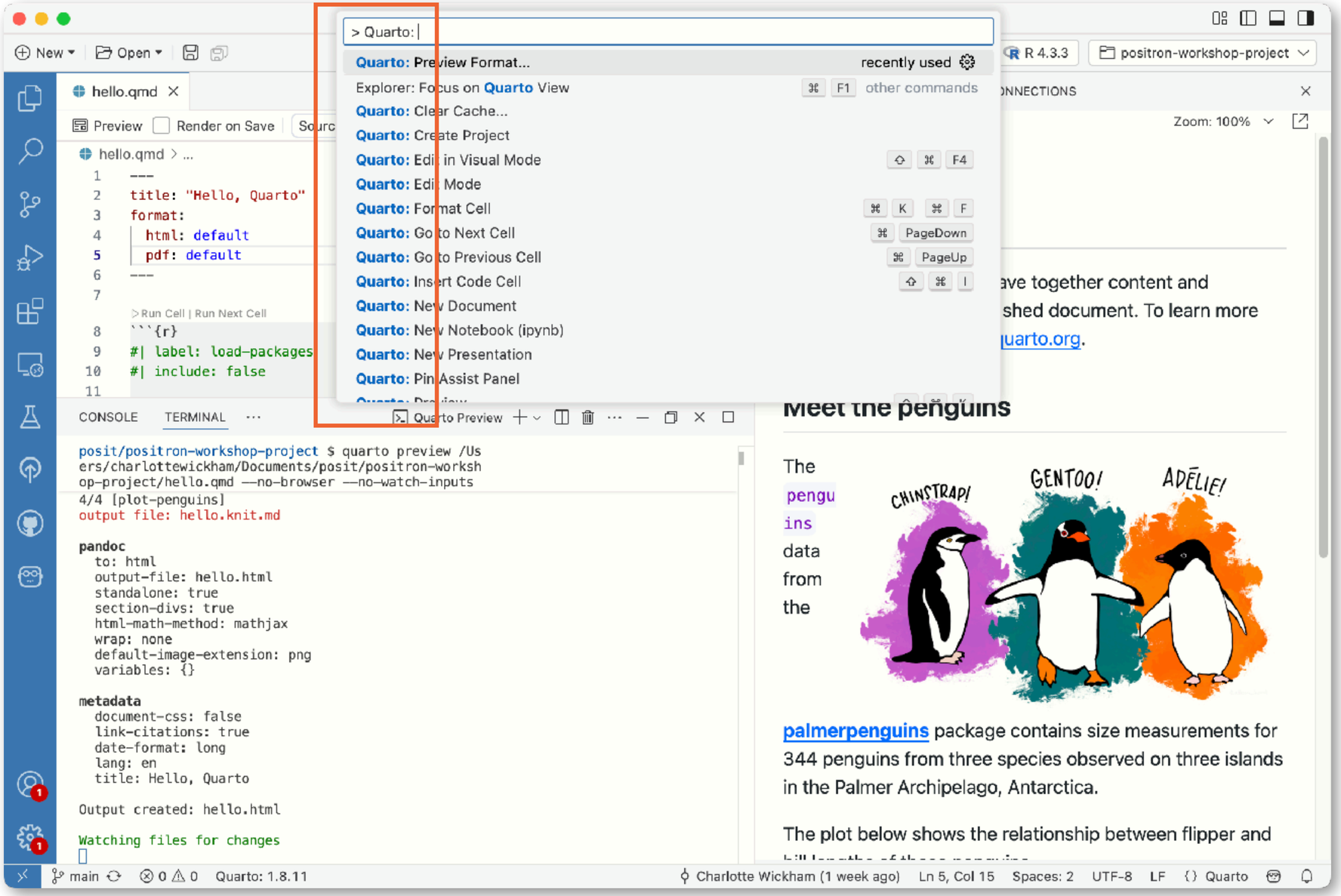
- Open `hello.qmd`
- Preview button (aka Render button in RStudio)
  - Quarto commands are run in Terminal pane
  - Preview opens in Viewer pane
- Command: **Quarto: Preview format...**


Preview button
Opens in Viewer
Runs quarto preview in Terminal
Quarto version
hello.qmd — positron-workshop-project
Search
Preview
Render on Save
Source
Visual
Insert Code Cell
hello.qmd > load-packages
---
title: "Hello, Quarto"
format:
html: default
pdf: default

Run Cell | Run Next Cell
```{r}
#| label: load-packages
#| include: false
library(tidyverse)
library(palmerpenguins)
```
CONSOLE
TERMINAL
PROBLEMS
OUTPUT
Quarto Preview
posit/positron-workshop-project $ quarto preview /Users/charlottewickham/Documents/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/
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
a from
CHINSTRAP!
GENTOO!
ADÉLIE!
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
main*
0 0
Quarto: 1.8.11
Ln 9, Col 24
Spaces: 2
UTF-8
LF
Quarto


Preview HTML
format: html
Declared Formats
Preview PDF (LaTeX)
format: pdf
Preview PDF (Typst)
format: typst
Other Formats
Preview MS Word
format: docx
Command:
Quarto: Preview format ...
hello.qmd
Preview
Render on Save
---
title: "Hello, Quarto"
format:
html: default
pdf: default

Run Cell | Run Next Cell
```{r}
#| label: load-packages
#| include: false
CONSOLE
TERMINAL
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/
R 4.3.3
positron-workshop-project
Zoom: 100%
The penguins
data from the
CHINSTRAP!
GENTOO!
ADÉLIE!
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
main
Quarto: 1.8.11
Charlotte Wickham (1 week ago)
Ln 5, Col 15
Spaces: 2
UTF-8
LF
Quarto
```


> Quarto:
Quarto: Preview Format...
recently used
Explorer: Focus on Quarto View
other commands
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
New
Open
R 4.3.3
positron-workshop-project
hello.qmd
Preview
Render on Save
Zoom: 100%
CONSOLE
TERMINAL
Quarto Preview
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
Output created: hello.html
Watching files for changes
Meet the penguins
The penguins data from the
CHINSTRAP!
GENTOO!
ADÉLIE!
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
main
Quarto: 1.8.11
Charlotte Wickham (1 week ago)
Ln 5, Col 15
Spaces: 2
UTF-8
LF
Quarto

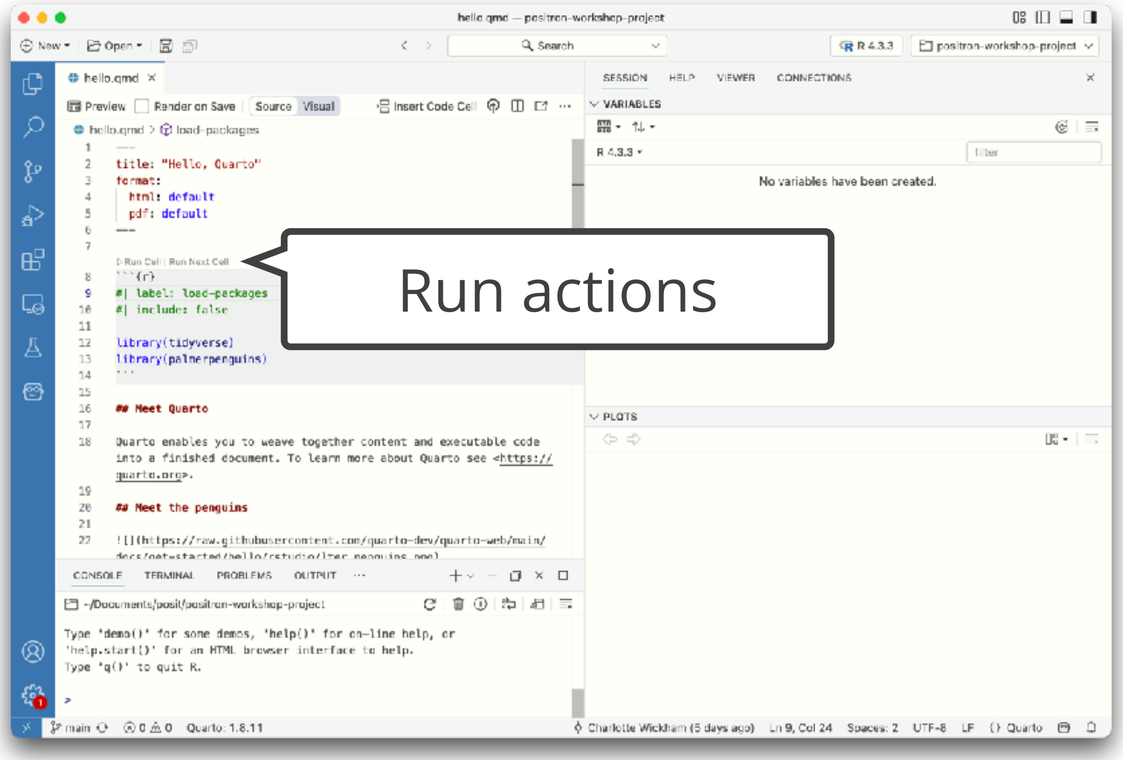
Demo

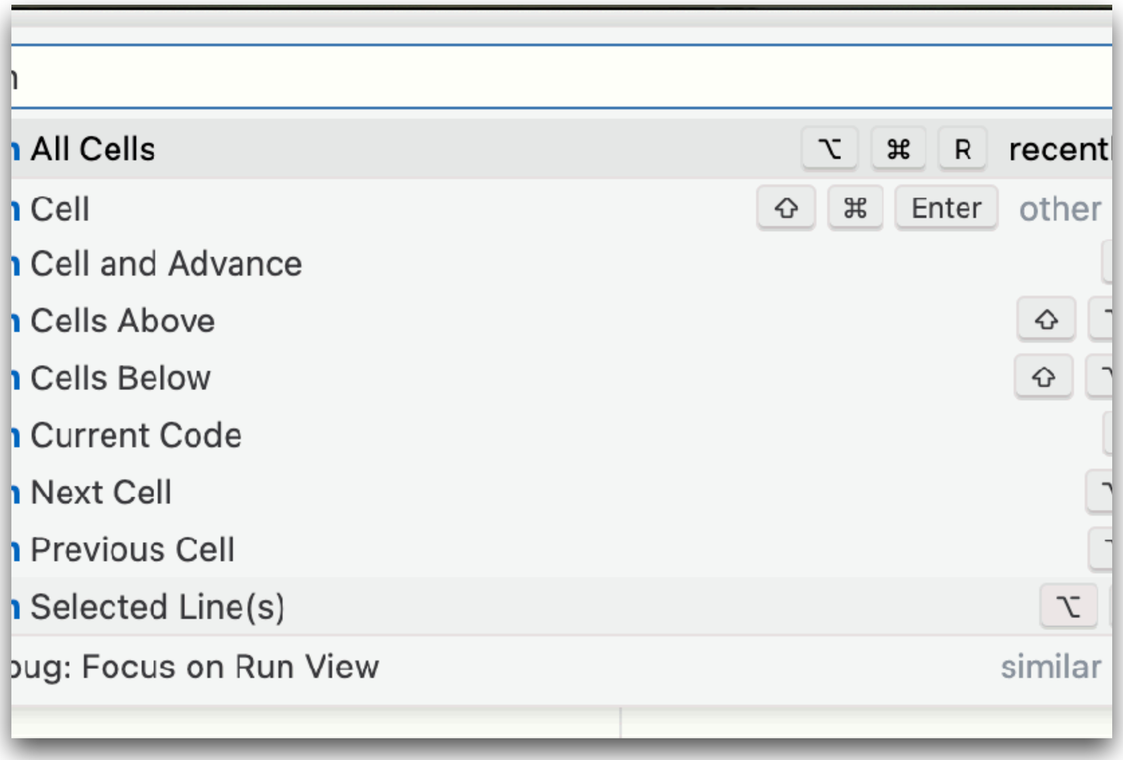
Document Workflow

- 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: /

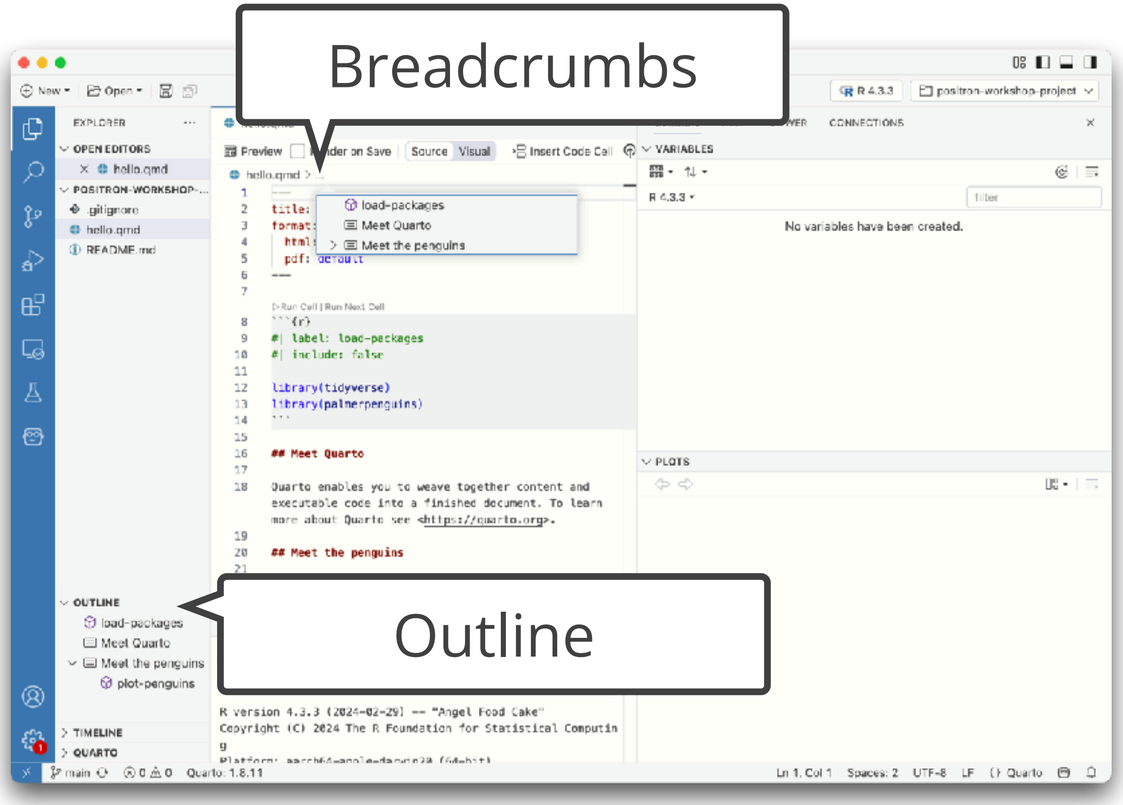
Code Cells

Commands:
Quarto: Run ...



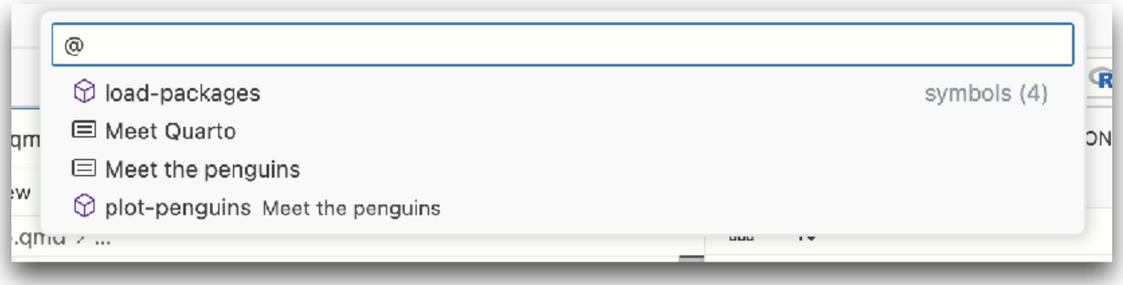


Navigation

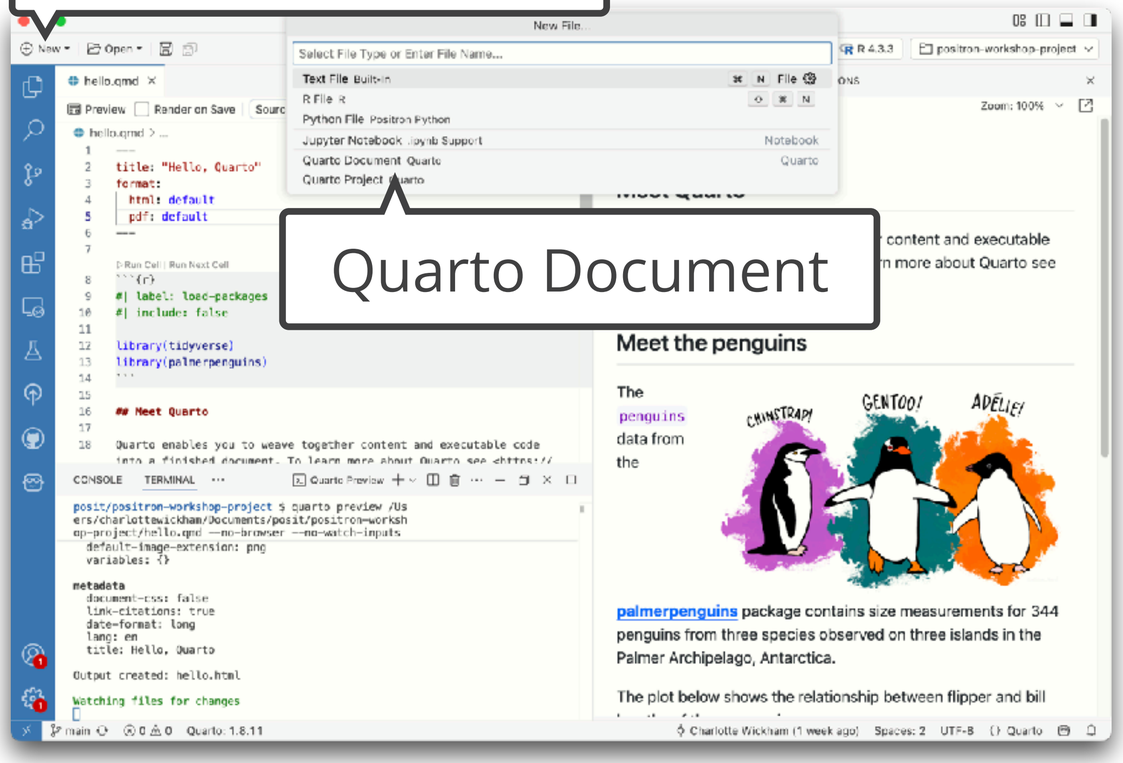


Command:

Go to Symbol in Editor

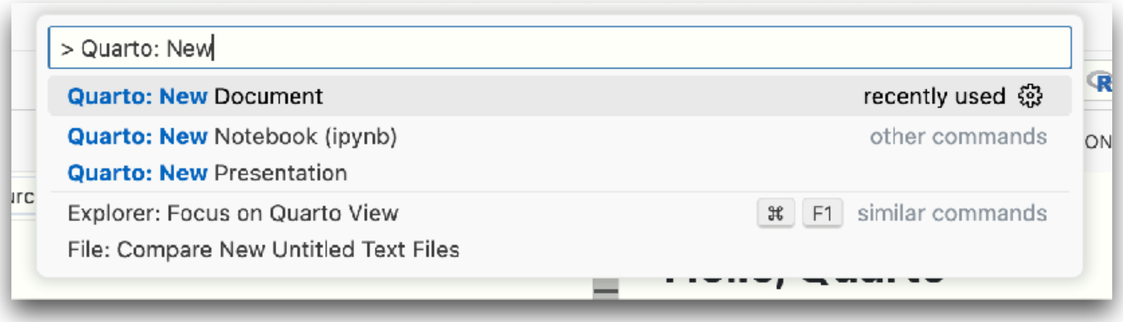


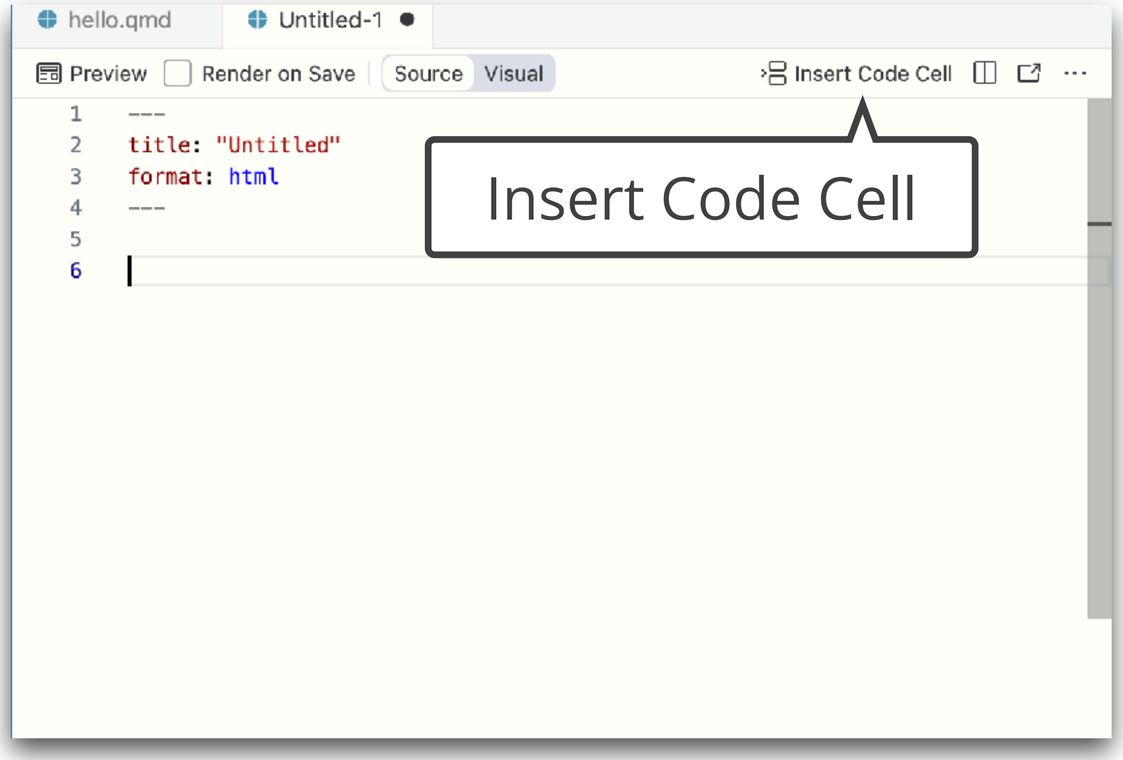
New > New File...



Command:

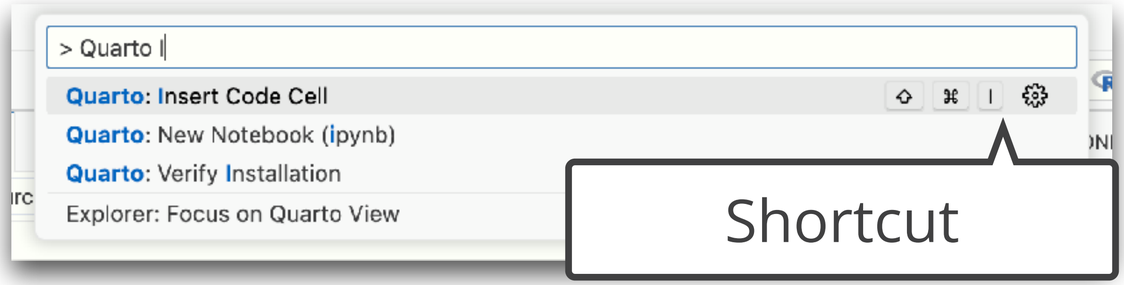
Quarto: New Document





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

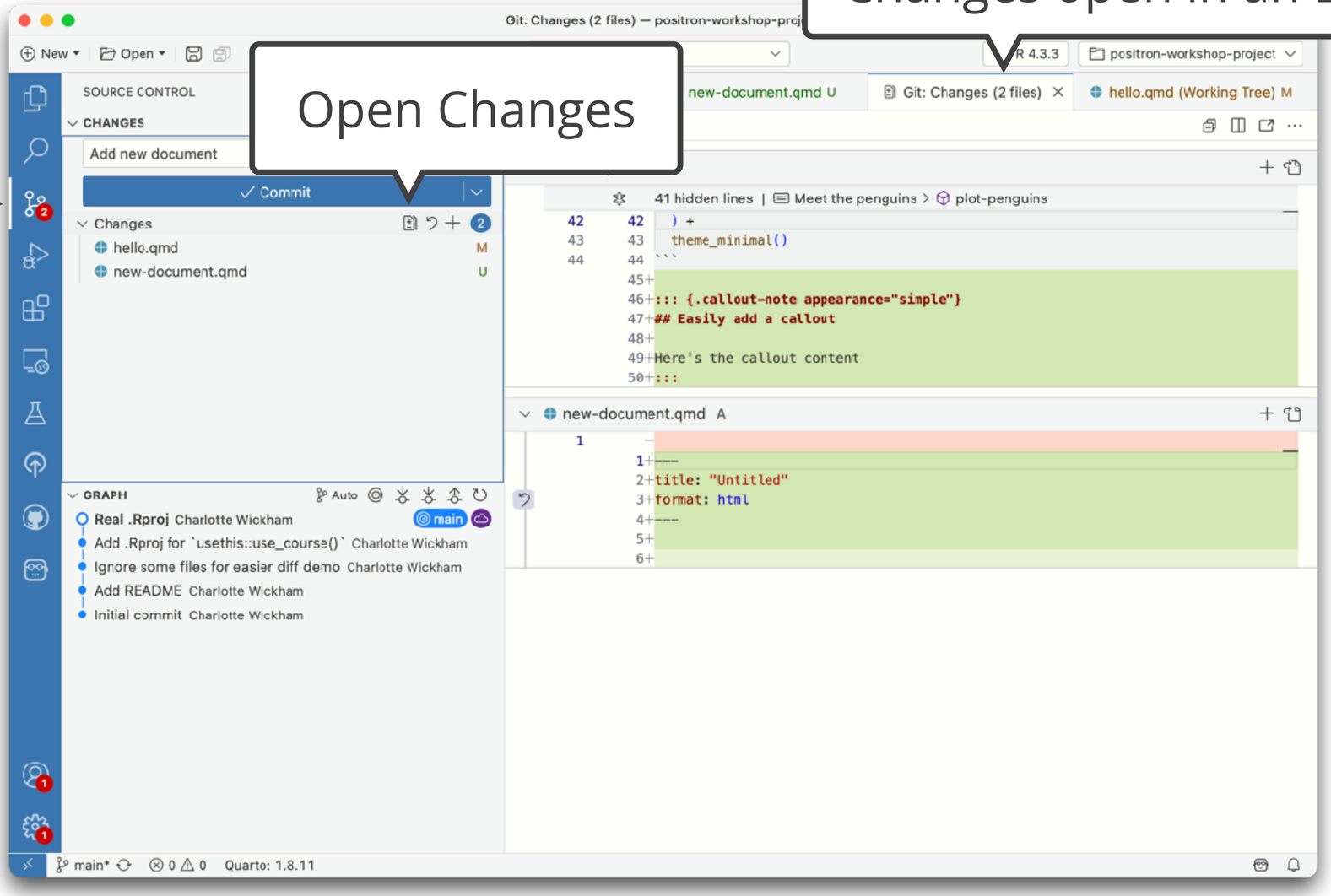
- Changes Pane
  - **Open Changes** closest to RStudio's diff
  - Changes open in Editor
  - Add, Commit
- Graph Pane
  - Pull/Push
  - Like RStudio's History view
- Current Branch
  - Click to get branch actions

Examine changes

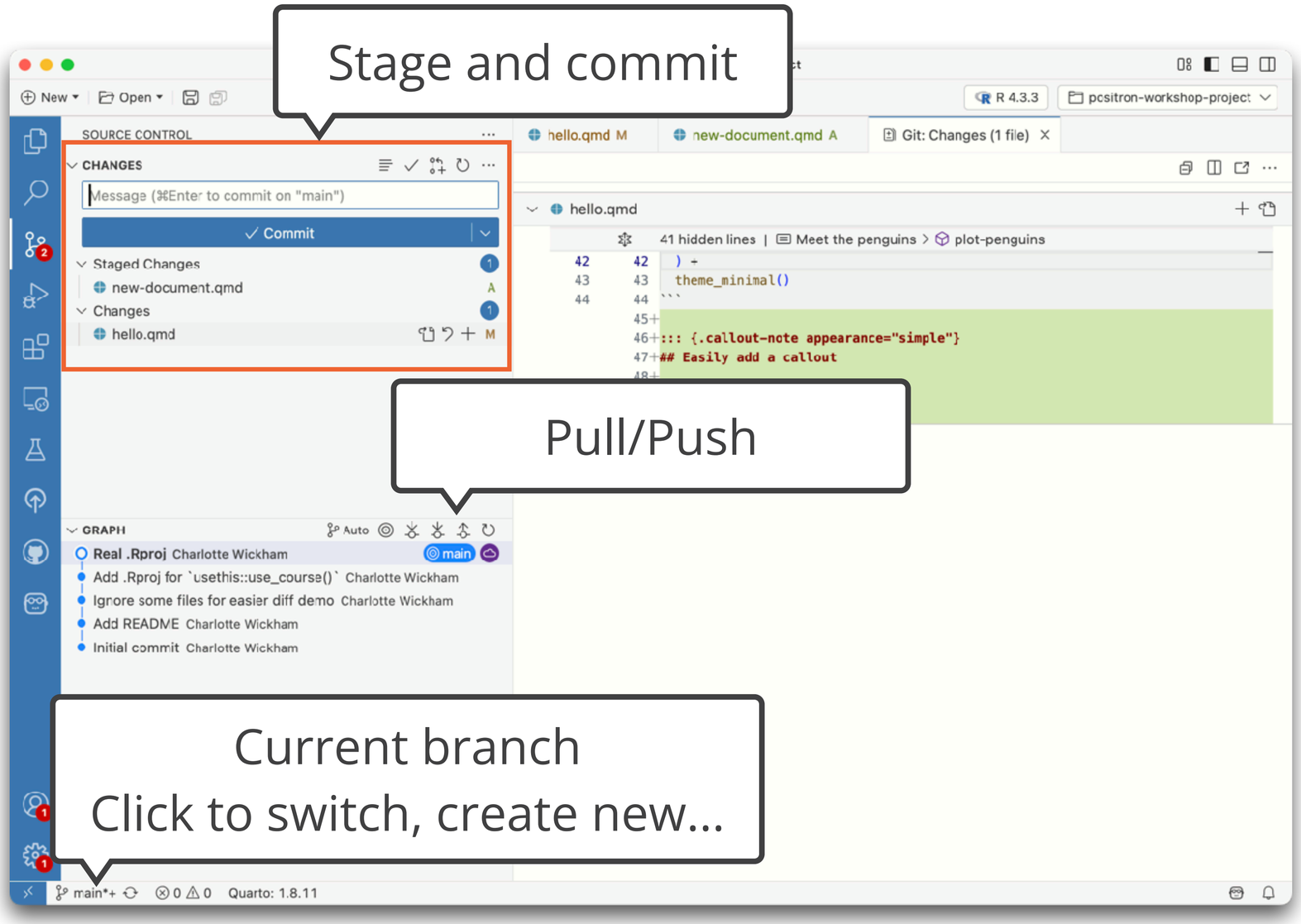
Changes open in an Editor

Open Changes

Git Pane



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