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
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/
main*
0 0
Quarto: 1.8.11
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
guins
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
ckham (6 days ago)
Ln 9, Col 24
Spaces: 2
UTF-8
LF
Quarto

Command:

Quarto: Preview format ...

Your turn

Quarto Commands

3m 00s

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

> 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
hello.qmd
---
title: "Hello, Quarto"
format:
html: default
pdf: default

Run Cell | Run Next Cell
```{r}
#| label: load-packages
#| include: false
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
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
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

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

Navigation

Command:

Go to Symbol in Editor

Code Cells

Commands:

Visual Mode

hello.qmd
Preview
Render on Save
Source
Visual
hello.qmd
Normal
---
title: "Hello, Quarto"
format:
html: default
pdf: default

{r}
#| label: load-packages
#| include: false
library(tidyverse)
library(palmerpenguins)
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
Source/Visual Toggle

hello.qmd
Preview
Render on Save
Source
Visual
hello.qmd
Normal
Format
Insert
Table
---
title: "Hello, Quarto"
format:
Python Code Cell
Executable Python cell
Julia Code Cell
Executable Julia cell
R Code Cell
Executable R cell
Citation...
Reference to a source
Cross Reference
Reference to related content
Symbol...
Unicode symbol / special character
/c
Insert Anything: type /

Your turn

Authoring

5m 00s

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

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

Closest to RStudio's diff

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