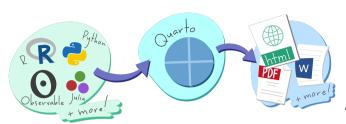
Publish and Share with Quarto:: CHEATSHEET





Author

WRITE AND CODE IN **PLAIN TEXT**

Author documents as .qmd files or Jupyter notebooks. Write in a rich Markdown syntax.



Render

Publish



Produce HTML, PDF, MS Word reveal.is. MS Powerpoint, Beamer Websites, blogs, books...

SHARE YOUR WORK WITH THE WORLD

Quickly deploy to GitHub Pages, Netlify, Quarto Pub, Posit Cloud, or Posit Connect

GET QUARTO

https://quarto.org/docs/download/

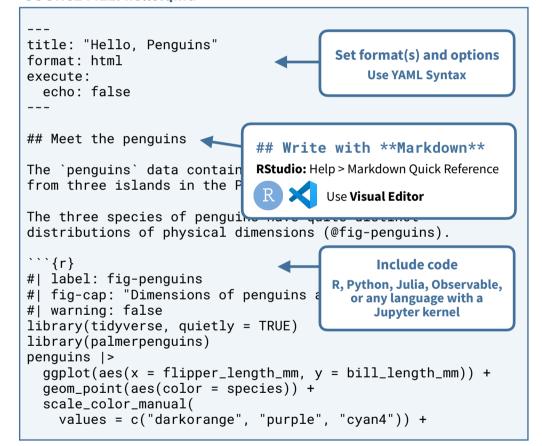
Or use version bundled with RStudio

GET STARTED

https://quarto.org/docs/get-started/

Author

SOURCE FILE: hello.amd



USE A TOOL WITH A RICH EDITING EXPERIENCE



Visual Studio Code + **Ouarto extension**

Run code cells as you write

Render with a button or keyboard shortcut

Edit Quarto documents with a Visual Editor

Apply formatting in Insert elements like Visual Editor. Saved code cells, cross as Markdown in references, and source. more.

OR ANY TEXT EDITOR

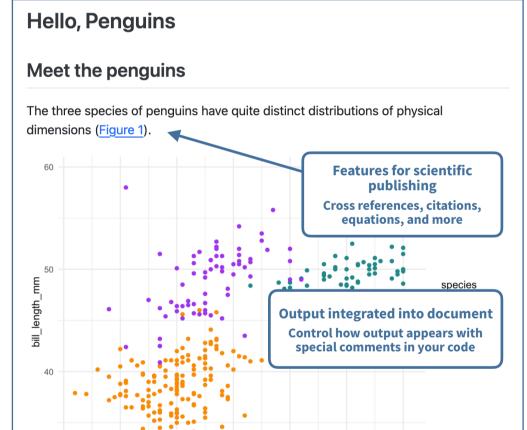
Quarto documents (.gmd) can be

edited in any tool that edits text.

\Box Format Table ∨ Insert ∨

Render

RENDERED OUTPUT: hello.html

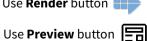


Save, then render to preview the document output.

quarto preview hello.qmd



Use **Render** button



The resulting HTML/PDF/MS Word/etc. document will be created and saved in the same directory as the source .qmd file.

BEHIND THE SCENES

When you render a document, Quarto:

- 1. Runs the code and embeds results and text into an .md file with: **Knitr**, if any {r} cells or, Jupyter, if any other cells.
- 2. Converts the .md file into the output format with Pandoc.

Publish

quarto publish {venue} hello.qmd

{venue}: quarto-pub, connect, gh-pages, netlify, confluence, posit-cloud



R Use **Publish** button



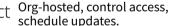


Free publishing service for Quarto content.



Cloud-hosted, control access to project and output.





CREATE WEBSITES, BOOKS, AND MORE

A directory of Quarto documents + a configuration file (_quarto.yml)

Quarto Projects

See examples at https://quarto.org/docs/gallery/

Get started from the command line:

quarto create project {type}

{type}: default, website, blog, book, confluence, manuscript



Use File > New Project

Artwork from "Hello, Quarto" keynote by Julia Lowndes and Mine Çetinkaya-Rundel, presented at RStudio Conference 2022. Illustrated by Allison Horst.



Include Code

CODE CELLS

Code cells start with ```{language} and end with ```.





Use Insert Code Chunk/Cell

```{r} #| label: chunk-id library(tidyverse)

```{python} #| label: chunk-id import pandas as pd

Other languages: {julia}, {ojs}

Add code cell options with # | comments.

Cell options control execution, figures, tables, layout and more. See them all at: https://quarto.org/docs/reference/cells

EXECUTION OPTIONS

OPTION DEFAULT EFFECTS

| echo | true | false: hide code
fenced: include code cell syntax |
|---------|-------|---|
| eval | true | false: don't run code |
| include | true | false: don't include code or results |
| output | true | false: don't include results
asis: treat results as raw markdown |
| warning | true | false: don't include warnings in output |
| error | false | true: include error in output and continue with render |

Set execution options at the **cell level**:

```{r} #| echo: false

```{python} #| echo: false

Or, globally in the YAML header with the execute option:

execute: echo: false

Set options in code cells with #| comments and YAML syntax: kev: value

INLINE CODE

Use computed values directly in text sections. Code is evaluated at render and results appear as text.

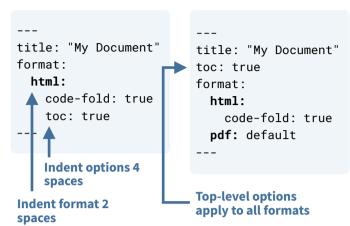
KNITR JUPYTER OUTPUT Value is r2+2. Value is $\{python\}2+2$. Value is 4.

餐 posit*

Set Format and Options

SET FORMAT OPTIONS

MULTIPLE FORMATS



Common formats: html, pdf, docx, odt, rtf, gfm, pptx, revealjs, beamer

Render all formats:

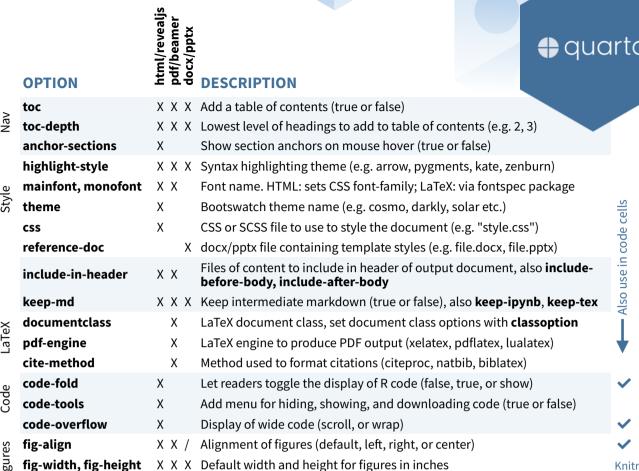
Terminal

quarto render hello.gmd

Render a **specific** format:

Terminal

quarto render hello.qmd --to pdf



X X X Format for Matplotlib or R figures (retina, png, jpeg, svg, or pdf)

COMPUTATION Output a Markdown table or an HTML table from your code

Visit https://quarto.org/docs/reference/ to see all options by format

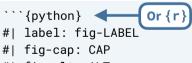
Add Content

FIGURES [14]

MARKDOWN

![CAP](image.png){#fig-LABEL fig-alt="ALT"}

COMPUTATION



#| fig-alt: ALT {{ plot code here }}

CROSS REFERENCES

1. Add labels

Code cell: add option label: prefix-LABEL Markdown: add attribute #prefix-LABEL

2. Add references @prefix-LABEL, e.g.

You can see in @fig-scatterplot,

| Prefix | Renders | Prefix | Renders | |
|--------|----------|--------|------------|--|
| fig- | Figure 1 | eq- | Equation 1 | |
| tbl- | Table 1 | sec- | Section 1 | |

TABLES

MARKDOWN

|object | radius| |:----:| | 696000| |Earth | 6371

fig-format

: CAPTION {#tbl-LABEL}

Use **Insert Table** in the Visual Editor

KNITR

Use knitr::kable() to produce Markdown:

```{r} #| label: tbl-LABEL #| tbl-cap: CAPTION knitr::kable(head(cars))

Also see the R packages: gt, flextable, kableExtra.

JUPYTER Add Markdown () to Markdown output:

quarto

```
```{python}
#| label: tbl-LABEL
#| tbl-cap: CAPTION
import pandas as pd, tabulate
from IPython.display import Markdown
df = pd.DataFrame({"A": [1, 2],
                   "B": [1, 2]})
Markdown(df.to_markdown(index=False))
```

CITATIONS

1. Add a bibliography **file** to the YAML header:

bibliography: references.bib

2. Add citations: [@citation], or @citation





Use Insert Citations dialog in the **Visual Editor**

Build your bibliography file from your Zotero library, DOI, Crossref, DataCite, or PubMed



SHORTCODES

```
{{< include _file.qmd >}}
{{< embed file.ipynb#id >}}
{{< video video.mp4 >}}
```