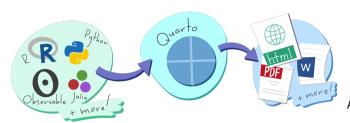
Publish and Share with Quarto:: CHEATSHEET





Author

WRITE AND CODE IN **PLAIN TEXT**

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



Render

GENERATE DOCUMENTS. PRESENTATIONS AND MORE

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

SHARE YOUR WORK WITH THE WORLD

Publish

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



GET QUARTO

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

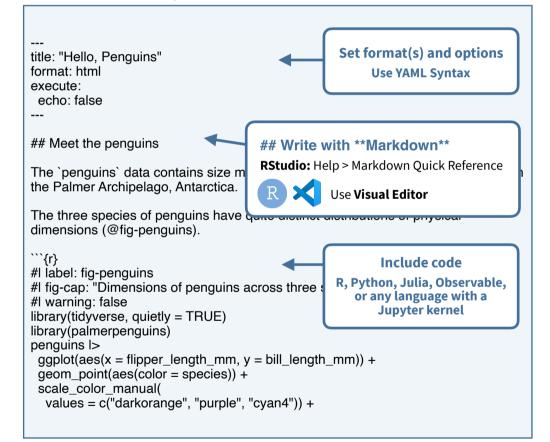
Or use version bundled with RStudio

GET STARTED

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

Author

SOURCE FILE: hello.qmd



 \Box

Format

USE A TOOL WITH A RICH EDITING OR ANY TEXT EDITOR 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.

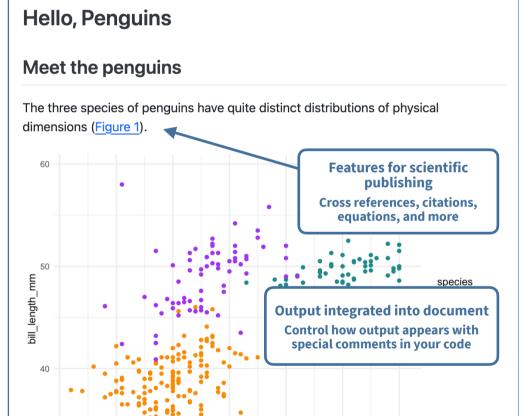
Quarto documents (.gmd) can be

edited in any tool that edits text.

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.



Org-hosted, control access, schedule updates.



Quarto Projects

CREATE WEBSITES, BOOKS, AND MORE

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

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**} #I label: chunk-id library(tidyverse)

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

Other languages: {julia}, {ojs}

Add code cell options with #I 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<br>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<br>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} ```{python} #I echo: false #I echo: false

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

execute: echo: false

Set options in code cells with #I comments and YAML syntax: key: value

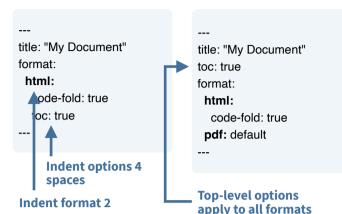
INLINE CODE

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.

Set Format and Options

SET FORMAT OPTIONS MULTIPLE FORMATS



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

Render all formats:

spaces

quarto render hello.gmd Render a **specific** format:

Add Content

quarto render hello.qmd --to pdf

FIGURES ? **MARKDOWN**

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

COMPUTATION



CROSS REFERENCES

1. Add labels

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

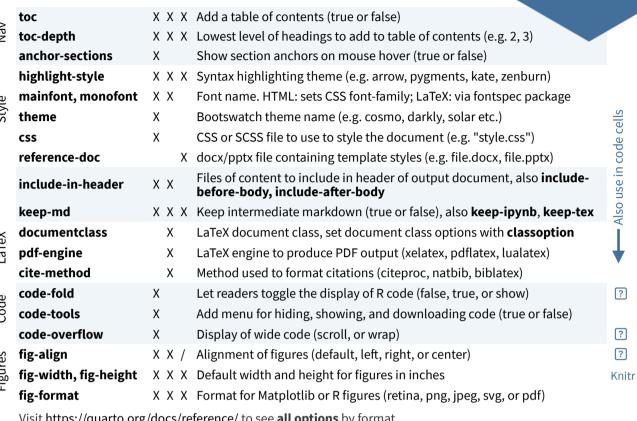
2. Add references @prefix-LABEL, e.g.

You can see in @fig-scatterplot, that...

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

html/revealjs pdf/beamer docx/pptx NOILAINDSSA NOILAIN

OPTION



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

KNITR

Markdown:

TABLES ?

MARKDOWN

lobject I radiusl |:----:|----:| ISun | 6960001

|Earth | 6371|

: CAPTION {#tbl-LABEL}



Use **Insert Table** in the Visual Editor

Use knitr::kable() to produce

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

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

#### **COMPUTATION** Output a Markdown table or an HTML table from your code JUPYTER Add Markdown()to Markdown output:

quarto

```{python}

#I label: tbl-LABEL #I 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))

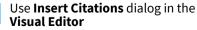
CITATIONS

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

bibliography: references.bib

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





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

CALLOUTS V tip Instead of tip use one of: ::: {.callout-tip} note, caution, warning, ## Title or important. (i) note ⚠ warning Text ::: (!) important **a** caution

SHORTCODES

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

