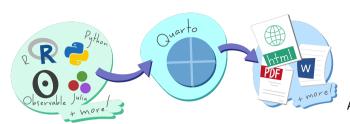
Publish and Share with Quarto:: CHEATSHEET





Author

WRITE AND CODE IN **PLAIN TEXT**

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



Render

PRESENTATIONS AND MORE

GENERATE DOCUMENTS,

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

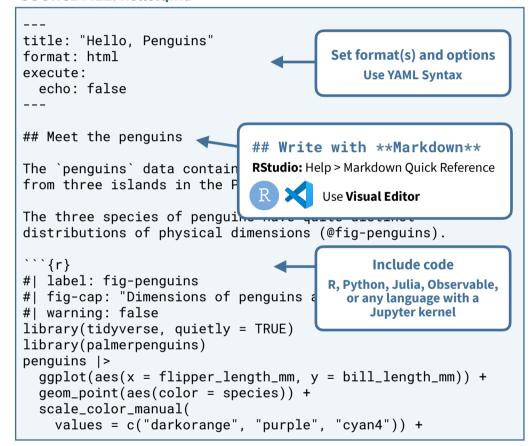
https://quarto.org/docs/download/ Or use version bundled with RStudio

GET STARTED

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

Author

SOURCE FILE: hello.gmd



USE A TOOL WITH A RICH EDITING EXPERIENCE



RStudio 🔪

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

OR ANY TEXT EDITOR

 \Box

Format

Quarto documents (.gmd) can be edited in any tool that edits text.

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

Insert ∨

Table ∨

same directory as the source .gmd file.

Render

RENDERED OUTPUT: hello.html

Hello, Penguins Meet the penguins The three species of penguins have quite distinct distributions of physical dimensions (Figure 1). **Features for scientific** publishing Cross references, citations, equations, and more **Output integrated into document** Control how output appears with special comments in your code

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

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.gmd

{venue}: quarto-pub, connect, gh-pages, netlify, confluence, V1.4 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, V1.4 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} ```{python} #| echo: false #| 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.

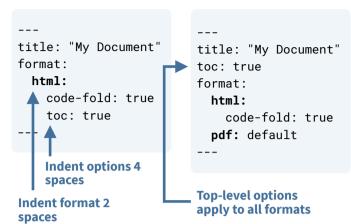
**KNITR** JUPYTER V1.4 **OUTPUT** Value is `r2+2`. Value is `{python}2+2`. Value is 4.



## **Set Format and Options**

#### **SET FORMAT OPTIONS**

#### **MULTIPLE FORMATS**



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

#### Render all formats:

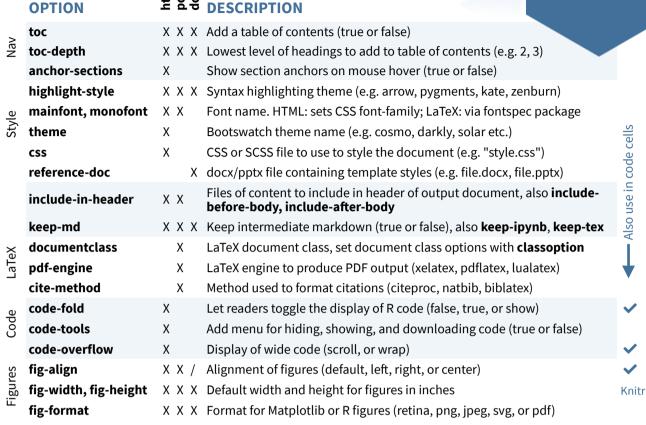
Terminal

quarto render hello.qmd

Render a **specific** format:

quarto render hello.qmd --to pdf

# html/revealjs pdf/beamer docx/pptx NOILAINDSSA NOILAIN



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**



#### **CROSS REFERENCES**

{{ plot code here }}

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 I

: 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

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

#### **SHORTCODES**

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

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