

Installing Quarto on Windows 10/11 or macOS

Installing the core applications

1. Install the Quarto CLI from <https://quarto.org>
2. Install LaTeX by issuing the following in a non-admin terminal:

```
quarto install tinytex
```
3. Install R from <https://cloud.r-project.org>
4. Install RStudio Desktop from <https://posit.co>

Installing several important R packages

Start RStudio and issue the following at its console (ignore `Rtools` warnings):

```
install.packages("tidyverse")
install.packages("palmerpenguins")
install.packages("gcookbook")
install.packages("nycflights13")
```

The `tidyverse` package includes improved data visualization, and the others are data sets that let you follow the examples at <https://quarto.org>, <https://r-graphics.org>, and <https://r4ds.hadley.nz>.

Making several important RStudio settings

To ensure nothing you do in one session impacts a later session, go to Tools → Global Options... → General → Basic, and in the “Workspace” section:

- Uncheck “Restore .RData into workspace at startup”
- Set “Save workspace to .RData on exit” to “Never”

Optionally, installing the “Mermaid” diagramming tool

1. Install Node.js from <https://nodejs.org>
2. Install Mermaid by first issuing the following in a non-admin terminal, then adding the `.bin` subdirectory of `node_modules` to your path:

```
npm install @mermaid-js/mermaid-cli
```

Now, you can convert a diagram written in Mermaid’s syntax (see <https://mermaid.js.org>) to a graphic¹ that you could include in a Quarto document with a command like the following:

```
mmdc -f -i mydiagram.mmd -o mydiagram.mmd.[pdf|svg|png]
```

¹PDF is the best choice for pdf output, SVG is the best choice for html output, and PNG is the best choice for email.