My Quarto Document

Your Name

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# Introduction

This is a skeleton Quarto document to get you started. You can modify this template to suit your needs.

## What is Quarto?

Quarto is a scientific and technical publishing system built on Pandoc. It allows you to create dynamic content with R, Python, Julia, and Observable.

# Code Examples

## R Code

Here’s an example of R code:

library(ggplot2)  
data(mtcars)  
  
ggplot(mtcars, aes(x = wt, y = mpg)) +  
 geom\_point() +  
 geom\_smooth(method = "lm") +  
 labs(title = "Miles per Gallon vs Weight",  
 x = "Weight (1000 lbs)",  
 y = "Miles per Gallon")

|  |
| --- |
| Figure 1: A simple plot |

## Python Code

To use Python code in Quarto, you’ll need to install the reticulate package in R:

install.packages("reticulate")

Then you can uncomment and use the Python code below:

# Example Python code (uncomment when reticulate is installed)  
# import matplotlib.pyplot as plt  
# import numpy as np  
#   
# # Generate some data  
# x = np.linspace(0, 10, 100)  
# y = np.sin(x)  
#   
# # Create the plot  
# plt.figure(figsize=(6, 4))  
# plt.plot(x, y)  
# plt.title('Sine Wave')  
# plt.xlabel('x')  
# plt.ylabel('sin(x)')  
# plt.grid(True)  
# plt.show()

# Mathematics

Quarto supports LaTeX math notation:

Inline math:

Display math:

# Tables

Here’s a simple table:

| Column 1 | Column 2 | Column 3 |
| --- | --- | --- |
| A | 1 | X |
| B | 2 | Y |
| C | 3 | Z |

# Cross-references

You can reference figures and tables. For example, see [Figure 1](#fig-plot).

# Citations

You can add citations using BibTeX format. Create a references.bib file and reference it in the YAML header.

# Conclusion

This skeleton provides a starting point for your Quarto document. Customize it as needed for your specific project.

## Next Steps

1. Modify the YAML header to match your project
2. Add your content
3. Include any necessary data files
4. Set up version control
5. Render your document with quarto render