## **Computational Publishing for Archives**

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### **Preface**

This is a Quarto book.

To learn more about Quarto books visit https://quarto.org/docs/books.

## 1 Introduction

This is a book created from markdown and executable code.

See Knuth (1984) for additional discussion of literate programming.

# 2 Summary

In summary, this book has no content whatsoever.

### 3 Quarto Basics

For a demonstration of a line plot on a polar axis, see Figure 3.1.

```
import numpy as np
import matplotlib.pyplot as plt

r = np.arange(0, 2, 0.01)
theta = 2 * np.pi * r
fig, ax = plt.subplots(
   subplot_kw = {'projection': 'polar'})
ax.plot(theta, r)
ax.set_rticks([0.5, 1, 1.5, 2])
ax.grid(True)
plt.show()
```

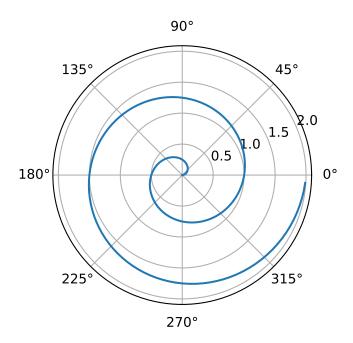


Figure 3.1: A line plot on a polar axis

#### **4 Quarto Computations**

```
import numpy as np
a = np.arange(15).reshape(3, 5)
a
```

#### 4.1 Matplotlib

#### 4.2 Plotly

#### References

Knuth, Donald E. 1984. "Literate Programming." Comput.~J.~27~(2):~97-111.~https://doi.org/10.1093/comjnl/27.2.97.