

**Swc**

Jane Doe

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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 book introduces essential open-source tools for mastering the art of scientific writing.

## 1. Writing/ Collaborative Writing Platforms

- Overleaf: An online LaTeX editor for collaborative writing and publishing.

## 2. Computing

- R
- Python

## 3. Data visualization

- R: ggplot2
- Python: plotnine

## 4. Reproducible Research

- R and Python both: Quarto
- Python: Jupyter Notebooks
- R: RMarkdown, knitr

## 5. Paper Management

- Zotero
- Mendeley

## 6. Open Access Journals/ Research papers

- Directory of Open Access Journals (DOAJ): A community-curated online directory that indexes and provides access to high-quality, open access, peer-reviewed journals.

## 7. Research Collaboration and Networking

- ResearchGate

- Academia.edu

#### 8. Version control

- Github

## 2 Writing/ Collaborative Writing Platforms

### 2.1 What is Overleaf?

Overleaf is an online LaTeX editor that allows users to create, edit, and collaborate on LaTeX documents in a web-based environment.

### 2.2 LaTeX Documents

LaTeX is a typesetting system commonly used for the production of scientific and mathematical documents due to its robust handling of complex formatting.

### 2.3 Advantages of Overleaf

#### 1. Real-Time Collaboration

Multiple users can work on a document simultaneously, with changes visible in real-time.

#### 2. Templates

Overleaf provides a variety of templates for different document types such as thesis, posters, presentations, etc., making it easier to get started.

#### 3. Version Control

Integrated version control system tracks changes and allows users to revert to previous versions.

#### 4. Rich Text Editing

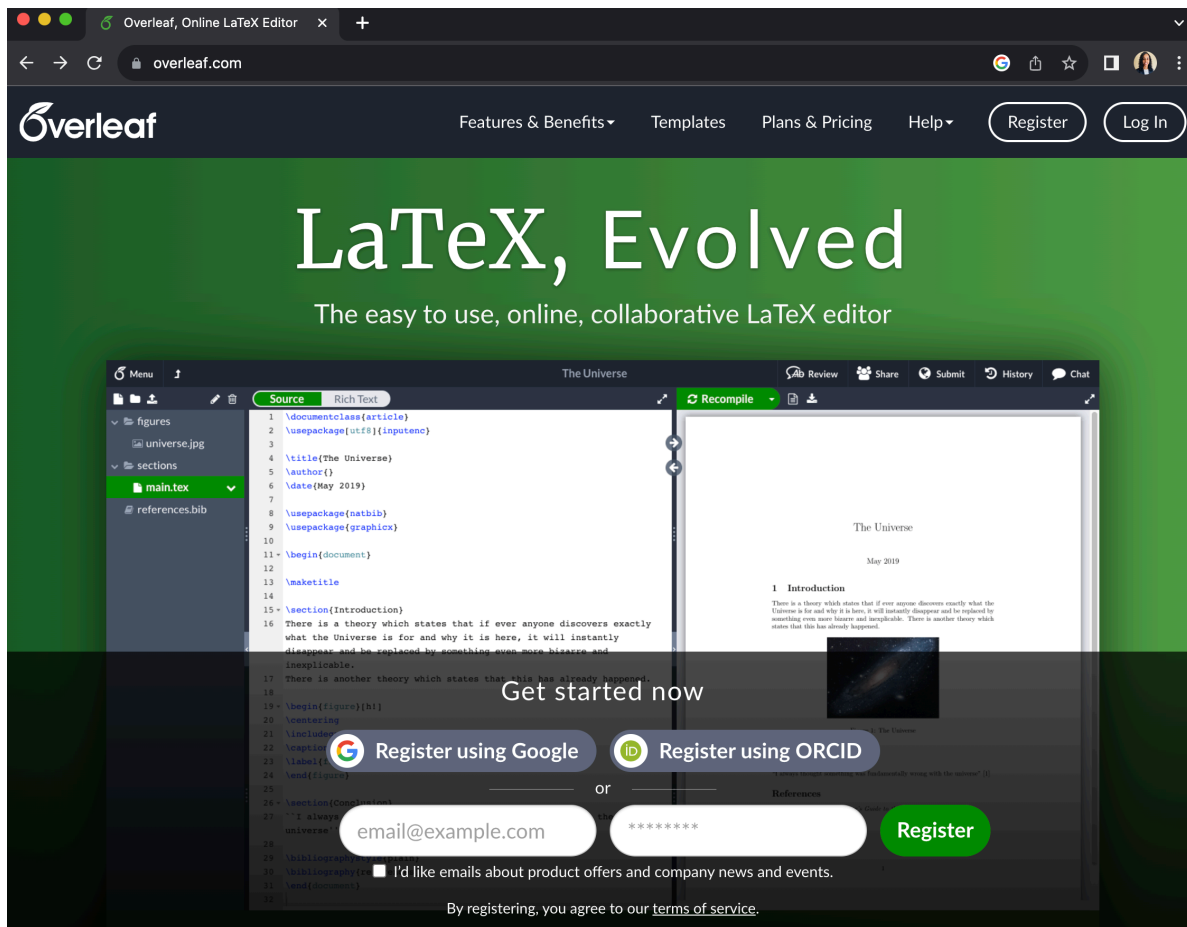
Combines the power of LaTeX with a user-friendly rich text editor for easy formatting.

#### 5. Accessibility

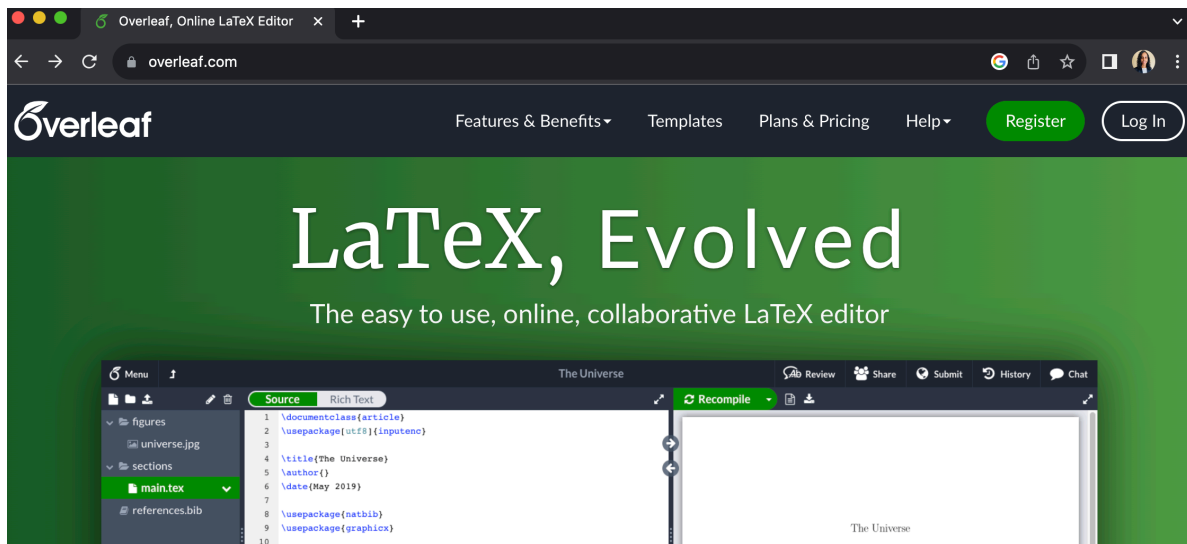
Access your documents from any device with an internet connection. Since it's web-based, there's no need to install LaTeX on your computer.

## 2.4 Setting up an Overleaf Account

1. Go to <https://www.overleaf.com/>.



2. Click on Register



3. Register Overleaf by entering your details. I register using my email.
4. Skip "Try Premium for free"

## 2.5 Create a new project

1. Create a new project -> Blank Project
2. Give a name to your project



## 3 Summary

In summary, this book has no content whatsoever.

## References