A Modern Template for Scientific Manuscripts

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ABSTRACT. This document demonstrates the usage of the `manuscript_modern` class for clean, readable, and easily customizable scientific manuscripts. Refer to the `readme` file for more detailed instrucitons. Also see the comments in the preamble of this template for quick usage instruction.

KEYWORDS: template, latex, manuscript, modern, design

1 INTRODUCTION

Welcome to the `manuscript_modern` class. This document serves both as a guide and a starting point for your own scientific article. You will find clear structure, elegant design, and easy-to-customise commands for layout, colour, and structure.

We developed this class to simplify scientific writing while ensuring the output is beautiful and journal-ready.

- Clean, readable typography with Lato-style fonts

- Section headings and colour macros

- Support for anonymous submissions and line numbering

- Author macros with ORCID and affiliation linking

- Abstract and summary boxes for clarity

You can easily add custom commands or packages without breaking layout.

SUMMARY. This class is ideal for preparing preprints, journal submissions, or open-access archives like arXiv and bioRxiv. All colours, section fonts, caption formats, and metadata are customisable.

2 METHODS

All main sections should be wrapped in `maintext` environment, which ensures consistent margins and vertical spacing. You can include subsections and standard environments like `itemize`, `enumerate`, and `equation` without extra setup.

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2.1 Table Example

Class provides `tabularx` with `booktabs` for modern table styling. Use the figure environment as usual to includegraphics.

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Table 1: Sample table with fixed column widths

Code	Description	Score
A1	Prototype tested on synthetic data	8.4
B2	Added real-world test modules	9.2
C3	Final release and review	9.7

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2.2 Figure Example

Use TikZ and pgfplots for inline mathematical plots. Class provides `pgfplots` and sets compatible version:
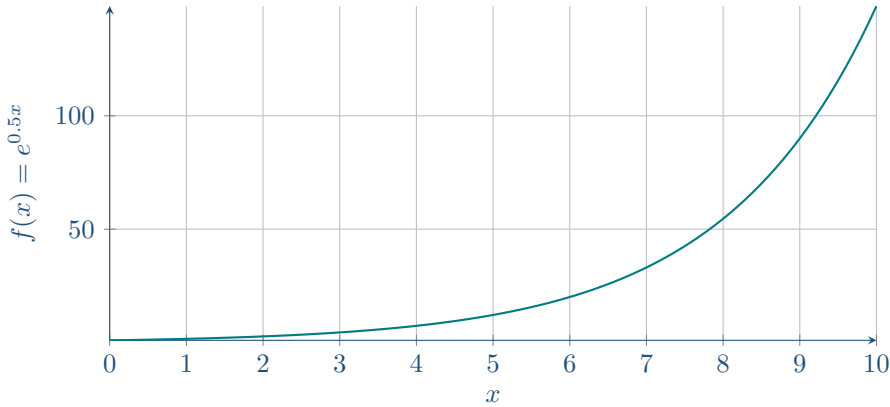

Figure 1: Example exponential function plotted using `pgfplots`.

3 RESULTS

Results are typically supported by figures and tables. You may cite sources using biblatex: [1, 2]. The bibliography will appear automatically at the end.
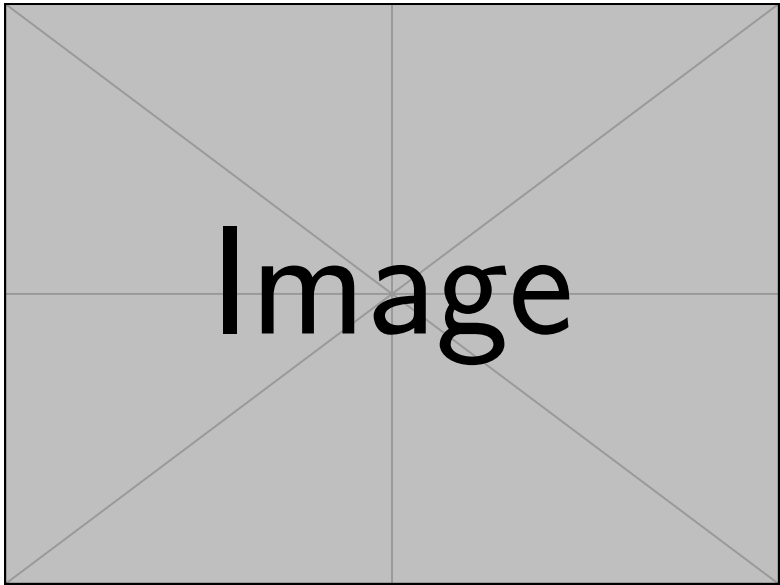
Figure 2: Example placeholder image. Replace with your actual figure.

4 DISCUSSION

Discuss findings here. The environment will maintain paragraph spacing and body colour set with `\setmaintextcolor`.

5 CONCLUSION

The `manuscript_modern` class offers a complete system for typesetting professional manuscripts, especially for scientific and preprint use.

Manuscript Information

Version: Draft 1
Last updated: June 2, 2025
Git repo: `git@github.com:raviumadi/manuscript.git`

REFERENCES

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