RUBBISH

Your Paper Title Goes Here: Capitalise Major Words and Keep It Under Two Lines If Possible

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Write your abstract here. The abstract should briefly present: (1) the motivation or relevance of your work; (2) a summary of the methods used; (3) key results or findings; and (4) the main conclusions. Avoid citations, abbreviations, and mathematical notation. Keep it concise—250 words or fewer is recommended.

1 How to Use This Template

Welcome to the official LaTeX template for *Rubbish*. This document doubles as a user guide: when compiled, it demonstrates every formatting feature the template supports. Replace this content with your own manuscript before submission.

1.1 Compilation

This template must be compiled with **XeLaTeX** (not pdfLaTeX), because `rubbish.cls` uses the `fontspec` and `xeCJK` packages for font selection and CJK character support. A typical compilation sequence:

1. `xelatex rubbish-template.tex`

2. `xelatex rubbish-template.tex` (run twice for cross-references)

On Overleaf, set the compiler to **XeLaTeX** via Menu → Compiler → XeLaTeX.

1.2 Required Files

Place the following files in the same directory:

- `rubbish.cls` --- the document class (do not modify unless you know what you are doing)

- `rubbish-template.tex` --- your paper (this file)

- `logo.png` --- the *Rubbish* journal logo

- Any figures referenced by your paper

2 Metadata Setup

All article metadata is configured in the preamble of this `.tex` file via simple commands. The most important ones:

- `\rubbishtitle{...}` --- your paper title

- `\rubbishmid{MID: ...}` --- manuscript ID assigned by the editorial board

- `\rubbishreceived{...}` and `\rubbishaccepted{...}` --- dates

- `\rubbishtype{...}` --- article type (Research Article, Review, etc.)

2.1 Authors and Affiliations

Authors are set with `\rubbishauthors{...}`. Use superscript numbers to link authors to affiliations, `*` for corresponding authors, and `$\dagger$` for equal contribution:

```
\rubbishauthors{
  Alice\textsuperscript{1,*},
  Bob\textsuperscript{2}
}
```

Affiliations are set with `\rubbishaffiliations{...}` and appear directly below the author names. Include institutions, contact emails, and contribution notes in that block.

2.2 Abstract and Keywords

The abstract is written inside the `rubbishabstract` environment. Keywords are set separately with `\rubbishkeywords{...}` and rendered automatically below the abstract box.

3 Text Formatting

3.1 Section Hierarchy

The template provides three levels of headings, all rendered in *bold italic green*:

1. `\section{...}` --- 12 pt

2. `\subsection{...}` --- 10.5 pt

3. `\subsubsection{...}` --- 9 pt

Sections are numbered automatically. For unnumbered headings (e.g. Acknowledgements), use starred variants: `\section*{...}`.

3.2 Inline Styles

- **Bold**: `\textbf{...}`

- *Italic*: `\textit{...}`

- <u>Underline</u>: `\underline{...}`

- Coloured: `{\color{rubbishgreen}...}`

- `Monospace`: `\texttt{...}`

3.3 Lists

Numbered lists use `enumerate`; bullet lists use `itemize`. Add `[leftmargin=*]` to remove the default left indent, as done throughout this guide.

3.4 Footnotes

Add footnotes with `\footnote{...}`. They are automatically numbered and placed at the bottom of the current column[1]. In the two-column layout, footnotes appear at the bottom of the column where they are called, not at the bottom of the page.

3.5 Hyperlinks

The template uses the `hyperref` package. Available commands:

- `\href{url}{text}` --- clickable text, e.g. template repository

- `\url{...}` --- displays the full URL, e.g. https://example.com

- `\href{mailto:...}{...}` --- email links, already used in the affiliations block

All links are rendered in dark blue (`linkblue`, `#000080`) as defined in `rubbish.cls`.

3.6 CJK Support

Chinese and Japanese text is supported natively via `xeCJK`. Example: 这是中文测试，日本語テスト。

The default CJK font is PingFang SC (macOS). For other platforms, edit `rubbish.cls` and change `\setCJKmainfont`: use SimSun on Windows or Noto Serif CJK SC on Linux.

---

[1]Like this one.

3.7 Code Blocks

For short inline code, use `\texttt{...}` to produce `monospaced text`. For multi-line code blocks, use the `lstlisting` environment, which renders inside a green-accented box with syntax highlighting:

```python
import olefile
ole = olefile.OleFileIO("Rubbish.doc")
data = ole.openstream("Data").read()
# PNG at byte offset 583, 62717 bytes
```

Specify the language with `[language=...]`:

```
xelatex rubbish-template.tex
xelatex rubbish-template.tex
```

The code box style (green border, light green background, bold green keywords) is defined in `rubbish.cls` via `\lstset`. Supported languages include Python, bash, C, Java, and many more.

4 Figures, Tables, and Equations

4.1 Figures

Within the two-column body, wrap figures in a `minipage{\columnwidth}` with `\captionof` for the caption. Here is the pattern used in actual *Rubbish* submissions:

```
\noindent
\begin{minipage}{\columnwidth}
\centering
\includegraphics[width=
  \columnwidth]{your-fig.png}
\captionof{figure}{Your caption.}
\label{fig:example}
\end{minipage}
```

And here is a live example using the journal logo:

Figure 1: The *Rubbish* journal logo, included here as a demonstration of figure insertion.

Reference figures in text with `Figure~\ref{fig:logo}`, which produces: Figure 1.

4.2 Tables

Tables use `booktabs` for clean horizontal rules. Wrap in a `minipage` to keep within one column:

Table 1: An Example Table

Item	Value	Unit
Length	42	cm
Width	17	cm
Quality	---	Rubbish

Use `\toprule`, `\midrule`, and `\bottomrule` instead of `\hline`. Use `\captionof{table}{...}` for the caption.

4.3 Equations

Inline math: $E = mc^2$. Display equations:

$$\int_{-\infty}^{\infty} e^{-x^2}\, dx = \sqrt{\pi} \tag{1}$$

Reference: Equation 1. Multi-line:

$$a = b + c \tag{2}$$
$$d = e \times f \tag{3}$$

Use `equation*` or `\[...\]` for unnumbered equations.

4.4 Full-Width Elements

To insert a figure or table that spans **both columns**, you must temporarily exit and re-enter the two-column environment:

```
\end{rubbishbody}

\noindent
\begin{minipage}{\textwidth}
\centering
\includegraphics[width=0.8\textwidth]
  {wide-figure.png}
\captionof{figure}{A full-width figure.}
\end{minipage}

\begin{rubbishbody}
```

This breaks out of `multicols`, places the full-width element, and restarts the two-column layout. The same pattern works for wide tables. Note that a column break will occur at the exit point, so place full-width elements at natural section boundaries when possible.

5 Citations and References

References in *Rubbish* are formatted **manually** at the end of the document---no BibTeX or Biber. Cite in text as [1], [2], etc. In the **Reference** section, list entries with `\noindent [n]` and separate with `\medskip`. Order by first appearance in the text.

6 Conclusion

Replace this guide with your own content. Keep the preamble metadata commands and the `rubbishabstract` / `rubbishbody` structure intact. Good luck---remember, the acceptance rate is 100%.

Acknowledgements

The authors thank the *Rubbish* editorial board for their unwavering commitment to accepting everything.

Conflicts of Interest

The authors declare no conflicts of interest.

Funding

This research received no external funding.

Ethics Statement

Not applicable.

References

[1] Author, A.B.; Author, C.D. Title of the Article. *Journal Name* **Year**, *Volume*, page--page.

[2] Author, E.F. *Title of the Book*; Publisher: City, Country, Year.

[3] Author, G.H. Title of the Conference Paper. In *Proceedings of the Conference Name*, City, Country, Date; page--page.