A demonstration of the LaTeX 2ε class file for the *Journal of Software: Evolution and Process*†

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SUMMARY

This paper describes the use of the LaTeX 2ε smrauth.cls class file for setting papers for the *Journal of Software: Evolution and Process*. Copyright © 2012 John Wiley & Sons, Ltd.

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KEY WORDS: class file; LaTeX 2ε; *J. Softw. Evol. and Proc.*

1. INTRODUCTION

Many authors submitting to research journals use LaTeX 2ε to prepare their papers. This paper describes the smrauth.cls class file which can be used to convert articles produced with other LaTeX 2ε class files into the correct form for publication in the *Journal of Software: Evolution and Process*.

The smrauth.cls class file preserves much of the standard LaTeX 2ε interface so that any document which was produced using the standard LaTeX 2ε article style can easily be converted to work with the smrauth style. However, the width of text and typesize will vary from that of article.cls; therefore, *line breaks will change* and it is likely that displayed mathematics and tabular material will need re-setting.

In the following sections we describe how to lay out your code to use smrauth.cls to reproduce the typographical look of the *Journal of Software: Evolution and Process*. However, this paper is not a guide to using LaTeX 2ε and we would refer you to any of the many books available (see, for example, [1, 2, 3]).

2. THE THREE GOLDEN RULES

Before we proceed, we would like to stress *three golden rules* that need to be followed to enable the most efficient use of your code at the typesetting stage:

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†Please ensure that you use the most up to date class file, available from the SMR Home Page at
http://onlinelibrary.wiley.com/journal/10.1002/(ISSN)2047-7481

   (i) keep your own macros to an absolute minimum;

  (ii) as TeX is designed to make sensible spacing decisions by itself, do *not* use explicit horizontal or vertical spacing commands, except in a few accepted (mostly mathematical) situations, such as `\,` before a differential d, or `\quad` to separate an equation from its qualifier;

 (iii) follow the *Journal of Software: Evolution and Process* reference style.

3. GETTING STARTED

The smrauth class file should run on any standard LaTeX 2_ε installation. If any of the fonts, style files or packages it requires are missing from your installation, they can be found on the *TeX Collection* DVDs or from CTAN.

   Journal of Software: Evolution and Process is published using Times fonts and this is achieved by using the `times` option as

`\documentclass[times]{smrauth}`.

If for any reason you have a problem using Times you can easily resort to Computer Modern fonts by removing the `times` option.

4. THE ARTICLE HEADER INFORMATION

The heading for any file using smrauth.cls is shown in Figure 1.

4.1. Remarks

   (i) In `\runningheads` use '*et al.*' if there are three or more authors.

  (ii) Note the use of `\affil` and `\affilnum` to link names and addresses. The author for correspondence is marked by `\corrauth` and `\corraddr` is used to give that author's address, which will be printed as a footnote, prefaced by 'Correspondence to:'.

 (iii) For submitting a double-spaced manuscript, add `doublespace` as an option to the documentclass line.

 (iv) Use `\cgs` for giving details of financial sponsors; alternatively use `\cgsn` if the grant number is also to be included. These details will be printed as a footnote, with 'Contract/grant sponsor:' and 'contract/grant number:' inserted in the appropriate places.

  (v) The abstract should be capable of standing by itself, in the absence of the body of the article and of the bibliography. Therefore, it must not contain any reference citations.

 (vi) Keywords are separated by semicolons.

5. THE BODY OF THE ARTICLE

5.1. Mathematics

smrauth.cls makes the full functionality of $\mathcal{AMS}$TeX available. We encourage the use of the `align`, `gather` and `multline` environments for displayed mathematics. amsthm is used for setting theorem-like and proof environments. The usual `\newtheorem` command needs to be used to set up the environments for your particular document.

5.2. Figures and Tables

smrauth.cls includes the graphicx package for handling figures.

```
\documentclass[times]{smrauth}
%\documentclass[times,doublespace]{smrauth}%For paper submission

\begin{document}

\runningheads{<Initials and Surnames>}{<Short title>}

\title{<Initial cap, lower case>}

\author{<An Author\affil{1},
Someone Else\affil{2}\corrauth\ and Perhaps Another\affil{1}>}

\address{<\affilnum{1}First author's address
(in this example it is the same as the third author)\break
\affilnum{2}Second author's address>}

\corraddr{<Corresponding author's address (the second author in
this example)>. E-mail: <corresponding author's email address>}

%\cgs{<Contract/grant sponsor name (no number)>}
%\cgsn{<Contract/grant sponsor name>}{<number>}

\begin{abstract}
<Text>
\end{abstract}

\keywords{<List keywords>}

\maketitle

\section{Introduction}
.
.
.
```

Figure 1. Example header text.

Figures are called in as follows:

```
\begin{figure}
\centering
\includegraphics{<figure name>}
\caption{<Figure caption>}
\end{figure}
```

For further details on how to size figures, etc., with the graphicx package see, for example, [1] or [3]. If figures are available in an acceptable format (for example, .eps, .ps) they will be used but a printed version should always be provided.

The standard coding for a table is shown in Figure 2.

5.3. Cross-referencing

The use of the LATEX cross-reference system for figures, tables, equations, etc., is encouraged (using `\ref{<name>}` and `\label{<name>}`).

```
\begin{table}
\caption{<Table caption>}
\centering
\tabsize
\begin{tabular}{<table alignment>}
\toprule
<column headings>\\
\midrule
<table entries
(separated by & as usual)>\\
<table entries>\\
.
.
.\\
\bottomrule
\end{tabular}
\end{table}
```

Figure 2. Example table layout.

5.4. Acknowledgements

An Acknowledgements section is started with `\ack` or `\acks` for *Acknowledgement* or *Acknowledgements*, respectively. It must be placed just before the References.

5.5. Bibliography

The normal commands for producing the reference list are:

```
\begin{thebibliography}{99}
\bibitem{<x-ref label>}
        <Reference details>
.
.
.
\end{thebibliography}
```

where `\bibitem{x-ref label}` corresponds to `\cite{x-ref label}` in the body of the article and `{99}` is the widest such number expected and determines the width of the number column in the reference list.

Please note that the file wileyj.bst is available from the same download page for those authors using BIBTEX.

5.6. Biographies

Brief biographies appear after the references. Use `\biog` or `\biogs` to set the headings AUTHOR'S BIOGRAPHY or AUTHORS' BIOGRAPHIES respectively. Individual author names should be set in bold and individual biographies are separated by a `\bigbreak`.

wrapfig.sty may also be useful in setting the text and photos.

5.7. Double Spacing

If you need to double space your document for submission please use the `doublespace` option as shown in the sample layout in Figure 1.

6. SUPPORT FOR SMRAUTH.CLS

We offer on-line support to participating authors. Please contact us via e-mail at
smrauth-cls@wiley.co.uk.

We would welcome any feedback, positive or otherwise, on your experiences of using
smrauth.cls.

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ACKNOWLEDGEMENT

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www.sunrise-setting.co.uk

REFERENCES

1. Kopka H, Daly PW. 2003. *A Guide to LaTeX* (4th edn). Addison-Wesley.
2. Lamport L. 1994. *LaTeX: a Document Preparation System* (2nd edn). Addison-Wesley.
3. Mittelbach F, Goossens M. 2004. *The LaTeX Companion* (2nd edn). Addison-Wesley.