The `rectopma` package: recicle top matter, i.e. reuse the title and author(s)

Battista Benciolini *

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1   Introduction

The package `rectopma` makes it possible to reuse the main content of `\title` and `\author` in different parts of a document. It is also possible to force linebreaks in the title with a command that has no effect when the title is re-printed. The file `TestTitle.tex` is an example of the use of the functions made available by the package.

2   Suggestions for the use and an example

I first present the suggestions for the use of `rectopma.sty` and the example that will be available in `TestTitle.tex` The example must obviously start loading the class (I use article) and the package rectopma

```
1 \documentclass{article}
2 \usepackage{rectopma}
```

In the preamble I define the title and the authors. The authors must be separated by `\and`. Title and authors can have a note using `\thanks`, and the note will disappear when the title and the author will be reused. When a long

`\intitlebreak` title is present it is perhaps useful to force linebreaks in some special position.
`\intitlebreakvs` The new commands `\intitlebreak` and `\intitlebreakvs` (vs= vertical skip) are used for this purpose, and their effect will disappears when the title itself is re-used in the document.

```
3 \title{Test of the package \textttt{rectopma}
4 \intitlebreak and suggestions for its use
5 \intitlebreakvs (I need a long title)%
6 \thanks{Comments are welcome !}}
7 \author{Battista Benciolini%
8 \thanks{e-mail: benciolinibattista at gmail dot com}%
9 \and    No Second Author\thanks{No-Where Institute}}%
```

`\SaveTopMatter`   The main part of the document starts as usual. The command `\SaveTopMatter`

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must be used before `maketitle` to save the title and the author(s).

```
10 \begin{document}
11 \SaveTopMatter
12 \maketitle
```

\SavedTitle   The title and the authors can be reprinted with the commands `\SavedTitle`
\SavedAuthor and `\SavedAuthor`. When they are reprinted the names of the various authors
are simply separated by commas and the content of `\thanks` is ignored.

```
13 The authors are listed here after: \SavedAuthor.
14 This is obtained with \verb|\SavedAuthor|.
15 It is also possible to reprint the title,
16 by means of  \verb|\SavedTitle|,
17 and the result is: \SavedTitle.
```

And this is the end of the example.

```
18 \end{document}
```

3   Code of the package

```
19 \ProvidesPackage{rectopma}[2024/04/04]
```

\declarecommand I need `\declarecommand` ! The definition is due to egreg in a comment to question
128797 in `tex.stackexchange.com`.

```
20 \newcommand\declarecommand[1]{\providecommand{#1}{}\renewcommand{#1}}
```

\intitlebreak   The command `\intitlebreak` is used to force a line break in the title.

```
21 \newcommand{\intitlebreak}{\\}
```

\intitlebreakvs   The comman `\intitlebreakvs` (vs= vertical skip) produces a line break and a
vertical skip.

```
22 \newcommand{\intitlebreakvs}{\\ \vskip 4mm }
```

\@outsidetitle   The commands `\intitlebreak`, `\intitlebreakvs`, `\and` and `\thanks` need a
redefinition for the correct output of title and authors in a generic position in
the document. The redefinition is operated by the command `\@outsidetitle`. (I
follow the old tradition of inserting a `@` in the commands that are of internal use,
not available to the user.)

```
23 \newcommand{\@outsidetitle}{%
24 \renewcommand{\intitlebreak}{\relax}%
25 \renewcommand{\intitlebreakvs}{\relax}%
26 \declarecommand{\thanks}[1]{\relax}%
27 \declarecommand{\and}{\unskip,\ }}%
```

\SaveTopMatter   The new command `\SaveTopMatter` saves the contents of `\@title` and `\@author`
in `\@SavedTitle` and `\@SavedAuthor` respectively, so that they can be re-used
anywhere in the document.

```
28 \newcommand{\SaveTopMatter}{%
29 \global\let\@SavedTitle\@title%
30 \global\let\@SavedAuthor\@author}
```

\SavedTitle   The command `\SavedTitle` actually prints the title.

```
31 \newcommand{\SavedTitle}{\@outsidetitle\@SavedTitle}
```

\SavedAuthor The command `\SavedAuthor` actually prints the authors.

32 `\newcommand{\SavedAuthor}{\@outsidetitle\@SavedAuthor}`

The package is now complete.

4 History

2002 first release in CTAN,

2024 second release in CTAN, complete re-coding of `rectopma.sty`, some changes in `TestTitle.sty`, new documentation, all stuff collected in `rectopma.dtx`.

5 Recommendation

I recommend all the users of `rectopma`, and all the persons that by chance encounter it, to send me any comment about it.

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