mfirstuc.sty v1.09: uppercasing first letter

Nicola L.C. Talbot

Dickimaw Books

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The glossaries bundle includes the package mfirstuc which provides the command:

\makefirstuc

\makefirstuc{\langle stuff\rangle}

This makes the first object of $\langle stuff \rangle$ uppercase unless $\langle stuff \rangle$ starts with a control sequence followed by a non-empty group, in which case the first object in the group is converted to uppercase. **No expansion is performed on the argument.**

Examples:

- \makefirstuc{abc} produces Abc.
- \makefirstuc{\emph{abc}} produces Abc (\MakeUppercase has been applied to the letter "a" rather than \emph). Note however that

\makefirstuc{{\em abc}}

 $produces \textit{ABC} (first object is \{ \texttt{\makeUppercase} \{ \texttt{\makeUppercase} \}), and$

{\makefirstuc{\em abc}}

produces abc (\em doesn't have an argument therefore first object is \em and so is equivalent to {\MakeUppercase{\em}abc}).

- \makefirstuc{{\'a}bc} produces Ábc.
- \makefirstuc{\ae bc} produces Æbc.
- \makefirstuc{{\ae}bc} produces Æbc.

• \makefirstuc{{\(\bar{a}\)}bc\} produces \(\bar{A}\)bc.

Note that non-Latin or accented characters appearing at the start of the text must be placed in a group (even if you are using the inputenc package) due to expansion issues.

In version 1.02 of mfirstuc, a bug fix resulted in a change in output if the first object is a control sequence followed by an empty group. Prior to version 1.02, \makefirstuc{\ae{}bc} produced &Bc. However as from version 1.02, it now produces &Bc.

Note also that

\newcommand{\abc}{abc}
\makefirstuc{\abc}

produces: ABC. This is because the first object in the argument of \makefirstuc is \abc, so it does \MakeUppercase{\abc}. Whereas:

\newcommand{\abc}{abc}
\expandafter\makefirstuc\expandafter{\abc}

produces: Abc. There is a short cut command which will do this:

\xmakefirstuc

\xmakefirstuc{\langle stuff \rangle}

This is equivalent to $\ensuremath{\langle stuff \rangle}$. So

\newcommand{\abc}{abc}
\xmakefirstuc{\abc}

produces: Abc.

 $\mbox{\tt xmakefirstuc}$ only performs one level expansion on the $\it first$ object in its argument. It does not fully expand the entire argument.

If you use mfirstuc without the glossaries package, the standard \MakeUppercase command is used. If used with glossaries, \MakeTextUppercase (defined by textcase the package) is used instead. If you are using mfirstuc without the glossaries package and want to use \MakeTextUppercase instead, you can redefine

\glsmakefirstuc

 $\glsmakefirstuc\{\langle text \rangle\}$

For example:

\renewcommand{\glsmakefirstuc}[1]{\MakeTextUppercase #1}

Remember to also load textcase (glossaries loads this automatically). New to mfirstuc v1.06:

\capitalisewords

\capitalisewords{\langle text\rangle}

This command apply \makefirstuc to each word in $\langle text \rangle$ where the space character is used as the word separator. Note that it has to be a plain space character, not another form of space, such as $\tilde{\ }$ or \space. Note that no expansion is performed on $\langle text \rangle$.

\xcapitalisewords

 $\xspace \xspace \xsp$

This is a short cut for \expandafter\capitalisewords\expandafter $\{\langle text \rangle\}$.

If you are using hyperref and want to use \capitalisewords or \makefirstuc (or \xcapitalisewords/\xmakefirstuc) in a section heading, the PDF bookmarks won't be able to use the command as it's not expandable, so you will get a warning that looks like:

Package hyperref Warning: Token not allowed in a PDF string (PDFDocEncoding):
(hyperref) removing '\capitalisewords'

If you want to provide an alternative for the PDF bookmark, you can use hyperref's \texorpdfstring command. See the hyperref manual for further details.

Examples:

- \capitalisewords{a book of rhyme.}
 produces: A Book Of Rhyme.
- \capitalisewords{a book\space of rhyme.}produces: A Book of Rhyme.
- 3. \newcommand{\mytitle}{a book\space of rhyme.}
 \capitalisewords{\mytitle}

produces: A BOOK OF RHYME. (No expansion is performed on \mytitle, so $\langle text \rangle$ consists of just one "word".) Compare with next example:

4. \newcommand{\mytitle}{a book\space of rhyme.}
\xcapitalisewords{\mytitle}
produces: A Book of Rhyme.

As from v1.09, you can specify words which shouldn't be capitalised unless they occur at the start of $\langle text \rangle$ using:

\fi \MFUnocap{\langle word \rangle}

This only has a local effect. The global version is:

\fi \gMFUnocap{\langle word\rangle}

For example:

\capitalisewords{the wind in the willows}

\MFUnocap{in}%
\MFUnocap{the}%

\capitalisewords{the wind in the willows}

produces:

The Wind In The Willows
The Wind in the Willows

The list of words that shouldn't be capitalised can be cleared using

\MFUclear

\MFUclear

The package mfirstuc-english loads mfirstuc and uses \MFUnocap to add common English articles and conjunctions, such as "a", "an", "and", "but". You may want to add other words to this list, such as prepositions, but as there's some dispute over whether prepositions should be capitalised, I don't intend to add them to this package.

If you want to write a similar package for another language, all you need to do is create a file with the extension .sty that starts with

\NeedsTeXFormat{LaTeX2e}

The next line should identify the package. For example, if you have called the file mfirstuc-french.sty then you need:

\ProvidesPackage{mfirstuc-french}

It's a good idea to also add a version in the final optional argument, for example:

\ProvidesPackage{mfirstuc-french}[2014/07/30 v1.0]

Next load mfirstuc:

\RequirePackage{mfirstuc}

Now add all your \MFUnocap commands. For example:

\MFUnocap{de}

At the end of the file add:

\endinput

Put the file somewhere on TEX's path, and now you can use this package in your document. You might also consider uploading it to CTAN in case other users find it useful.