

mfirstuc.sty v1.09: uppercasing first letter

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

`\makefirstuc`

`\makefirstuc{<stuff>}`

This makes the first object of *<stuff>* uppercase unless *<stuff>* 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 *ABC* (first object is `{\em abc}` so equivalent to `\MakeUppercase{\em abc}`), 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{{ä}bc}` produces `Äbc`.

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 `æBc`. However as from version 1.02, it now produces `ÆBc`.

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{\<stuff>}
```

This is equivalent to `\expandafter\makefirstuc\expandafter{\<stuff>}`. So

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

produces: `Abc`.

`\xmakefirstuc` only performs one level expansion on the *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{\<text>}
```

For example:

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

Remember to also load `textcase` (`glossaries` loads this automatically).

New to `mfirstuc` v1.06:

`\capitalisewords`

```
\capitalisewords{<text>}
```

This command apply `\makefirstuc` to each word in `<text>` 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 `~` or `\space`. Note that no expansion is performed on `<text>`.

`\xcapitalisewords`

```
\xcapitalisewords{<text>}
```

This is a short cut for `\expandafter\capitalisewords\expandafter{<text>}`.

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:

1. `\capitalisewords{a book of rhyme.}`
produces: A Book Of Rhyme.
2. `\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 `<text>` 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 `<text>` using:

`\fi` `\MFUnocap{<word>}`

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

`\fi` `\gMFUnocap{<word>}`

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.