

EMBRAC

VO.4 2013/05/11

Upright Brackets in Emphasized Text

Clemens NIEDERBERGER

<https://bitbucket.org/cgnieder/embrac/>
contact@mychemistry.eu

English documentation

Contents

	6 Adding More Brackets & Adjusting the Kerning	3
1 License and Requirements	1	
2 Acknowledgements	1	
3 New	2	
4 About	2	
5 How it Works	2	
	7 biblatex Compatibility	5
	8 Turn EMBRAC Temporarily Off	6
	9 Watch out!	6
	References	6
	Index	6

1 License and Requirements

EMBRAC is placed under the terms of the LaTeX Project Public License, version 1.3 or later (<http://www.latex-project.org/lppl.txt>). It has the status “maintained.”

EMBRAC loads and needs the packages `expl3`,¹ `xparse`² and `l3keys2e`,³ the first is part of the `l3kernel`⁴ and the others are part of the `l3packages`.⁵

2 Acknowledgements

I like to thank both Dominik Waßenhoven for inspiration [Waf12] and Bruno Le Floch for providing code [Flo11]. Without either of them this package probably wouldn’t exist.

¹ CTAN: `expl3` ² CTAN: `xparse` ³ CTAN: `l3keys2e` ⁴ CTAN: `l3kernel` ⁵ CTAN: `l3packages`

3 New

vo.1a The command `\RenewEmph` has been renamed into `\ChangeEmph` and a new slightly different `\RenewEmph` has been added.

vo.2 Improved interaction with biblatex.⁶

vo.3 Added support for fontspec’s `\textsi`.

4 About

Parentheses and brackets are not letters, and it makes little sense to speak of them as roman or italic. There are vertical parentheses and sloped ones, and the parentheses on italic fonts are almost always sloped, but vertical parentheses are generally to be preferred. That means they must come from the roman font, and may need extra spacing when used with italic letterforms.

The sloped square brackets usually found on italic fonts are, if anything, even less useful than sloped parentheses. If, perish the thought, there were a book or film entitled *The View from My [sic] Bed*, sloped brackets might be useful as a way of indicating that the brackets and their contents are actually part of the title. Otherwise, vertical brackets should be used, no matter whether the text is roman or italic: “The View from My [sic] Bed” and “*the view from my [sic] bed.*” [Brio4, p. 85]

Both this quote from *The Elements of Typographic Style* by Robert Bringhurst and the article “Aufrechte Klammern in kursivem Text” by Dominik Waßenhoven [Waß12] inspired this package. Indeed, **EMBRAC** heavily borrows from the code Waßenhoven provided in his article.⁷ The code was originally provided by Bruno Le Floch⁷ answering a question on TeX.sx [Flo11].

EMBRAC tries to redefine `\emph` and `\textit` in a way that neither parentheses nor square brackets are sloped. In an ideal world you of course wouldn’t need this package because the italic font you’re using would have vertical parentheses and brackets by itself.

```
1 \emph{This is emphasized [sic] text.} \\  
2 \emph{This is emphasized text (as you can see).}
```

This is emphasized [sic] text.

This is emphasized text (as you can see).

5 How it Works

Both the commands `\emph` and `\textit` are redefined:

`\emph*{<emphasized text>}`

`\textit*{<text in italics>}`

⁶ CTAN: biblatex ⁷ Many thanks again for his kind permission to use it!

`\textsi*{<text in italic small caps>}`

This command is only defined and thus redefined if you loaded `fontspec`, *i.e.* if you're compiling your document with `XYLaTeX` or `LuaLaTeX`.

They now have a `*` argument that restores the original behaviour. Otherwise they're used just as before.

Let's see the example again:

```
1 \emph{This is emphasized [sic] text.} \\
2 \emph{This is emphasized text (as you can see).}
```

This is emphasized [sic] text.

This is emphasized text (as you can see).

As you can see you don't have to do anything apart from loading `EMBRAC` in your preamble. Well – that's actually not entirely true. You have to take care of the kerning of the parentheses and brackets. Otherwise things could look worse with `EMBRAC` than without.

The following example demonstrates one point why you have to be very careful when using `EMBRAC`. Certain parenthesis-letter combinations might need adjustments of the kerning:

```
1 \emph{This is (just) emphasized text.} \\
2 \emph{This is (\kern.1em just) emphasized text.}
```

This is (just) emphasized text.

This is (just) emphasized text.

This of course strongly depends on the font you've chosen. Kerning is a very important aspect when using this package and you shouldn't use it without giving it a certain amount of attention. See the next section for more details.

6 Adding More Brackets & Adjusting the Kerning

If you want you can change the behaviour of `EMBRAC`. Maybe it should only affect squared brackets? Or curly braces, too? This can be done with the following commands. They all work locally which means if used inside a group outside of it everything stays what it was.

`\AddEmph{<o>}[<io-kern>,<oo-kern>]{<c>}[<ic-kern>,<oc-kern>]`

`\ChangeEmph{<o>}[<io-kern>,<oo-kern>]{<c>}[<ic-kern>,<oc-kern>]`

`\RenewEmph{<o>}[<io-kern>,<oo-kern>]{<c>}[<ic-kern>,<oc-kern>]`

`\DeleteEmph{<o>}{<c>}`

Here `<o>` means *opening bracket* and `<c>` means *closing bracket*. The kerning arguments are all four optional and require – if given – to be a length. If they're not given `\AddEmph` and

`\RenewEmph` insert `0pt` and `\ChangeEmph` uses the value stored by `\AddEmph` or `\RenewEmph` before.

To each of these commands there are two variants that are only semantically different.⁸ They are all called `\<base>OpEmph` or `\<base>ClEmph` where `<base>` is either `Add`, `Change`, `Renew` or `Delete`. Their arguments are all the same: the half of what the main commands have for either modifying the opening or the closing symbols.

`\AddOpEmph{<o>}[<io-kern>,<oo-kern>]`

`\AddClEmph{<c>}[<ic-kern>,<oc-kern>]`

They allow you to add single symbols to `EMBRAC`'s mechanism instead of adding pairs.

In all these commands the optional argument `<io-kern>` is inserted after the opening bracket (inner opening), `<oo-kern>` is inserted before it (outer opening). `<ic-kern>` is inserted before the closing bracket (inner closing), `<oc-kern>` after it (outer closing).

`EMBRAC` initially makes these definitions:

```
1 % add some defaults:
2 \AddEmph{[]}{.04em,-.12em}
3 \AddEmph{({}{- .04em}{})}{, -.15em}
```

This document however uses “Linux Libertine O”⁹ both for the roman and the italic font and redefines them in this way (still not sure these are the best values):

```
1 \RenewEmph{[]}{-0.045em,.02em}{.055em,-.09em}
2 \ChangeEmph{({}{- .01em,.04em}{})}{.04em,-.05em}
```

You can change them as you wish, but be careful with the kerning! What's too less for one letter might be too much for others:

```
1 \ChangeEmph{({}{.1em}{})}{.1em}
2 \emph{This is (just) emphasized text.} \ % looks ok
3 \emph{This is emphasized text (as you can see).} % looks bad
```

This is (just) emphasized text.

This is emphasized text (as you can see).

To see why it is important to pay attention to the kerning values let's look at how `EMBRAC`'s features look without kerning (i.e., `0pt` for each value), with the default settings and with the settings for this document:

⁸ They're also using different lists internally but you shouldn't concern yourself with this.

⁹ <http://www.linuxlibertine.org/>

No Kerning:

This is emphasized [sic] text.

This is emphasized text [as you can see].

This is emphasized (sic) text.

This is emphasized text (as you can see).

EMBRAC's Default Kerning:

This is emphasized [sic] text.

This is emphasized text [as you can see].

This is emphasized (sic) text.

This is emphasized text (as you can see).

Adjusted Kerning:

This is emphasized [sic] text.

This is emphasized text [as you can see].

This is emphasized (sic) text.

This is emphasized text (as you can see).

Deleting a pair removes it completely from EMBRAC's mechanism. All information about the pair and its kerning values will be lost. So if you want the effects to be temporary use grouping.

```
1 \DeleteEmph{[]{}  
2 \emph{This is emphasized [sic] text.} \\  
3 \emph{This is emphasized text (as you can see).}
```

This is emphasized [sic] text.

This is emphasized text (as you can see).

By the way: this packages provides a simple file `embrac_kerning_test.tex` for testing kerning values. You should find it in the same directory as this documentation.

7 biblatex Compatibility

This is EMBRAC's only package option:

`biblatex` = `true`|`on`|`parens`|`false`|`off`|`none` Default: `false`

If set to `true` (or one of its aliases) parentheses and squared brackets as defined by biblatex with `\bibleftparen`, `\bibrightparen`, `\bibleftbracket` and `\bibrightbracket` are treated the same way (if not removed from the treatment with `\DeleteEmph`).

The command `\blx@imc@mkbibemph` is patched to use the original definition of `\emph`.

```
1 % this document uses \usepackage[biblatex]{embrac}  
2 \emph{Let's cite Bringham again:~\cite{bringham04}}.
```

Let's cite Bringhurst again: [Brio4].

8 Turn **EMBRAC** Temporarily Off

Redefining `\emph` and `\textit` is not without danger. Sometimes you might find that you'd want to keep the original definition for a small portion of your document. You can use the following commands whose functions are obvious, I guess:

`\EmbracOff`

`\EmbracOn`

Both commands are local.

9 Watch out!

Please be aware that **EMBRAC** does not affect `\itshape` nor `\em` (nor `\it` which you shouldn't use in a \LaTeX document, anyway).

`\itshape` This is italic [sic] text. *This is italic [sic] text.*

References

- [Brio4] Robert Bringhurst. *The Elements of Typographic Style*. Hartley & Marks, Canada, 2004. ISBN: 978-0-88179-205-5.
- [Flo11] Bruno Le Floch. *Upright parentheses in italic text*. Mar. 9, 2011. URL: <http://tex.stackexchange.com/a/13057/5049> (visited on 06/28/2012).
- [Waß12] Dominik Waßenhoven. "Aufrechte Klammern in kursivem Text". In: *Die \TeX nische Komödie 2* (2012), pp. 51–53.

Index

Section titles are indicated **bold**, packages sans serif, commands `\brown` and options `yellow`.

A	Adjusting the Kerning ... 3 ff.	<code>\bibleftparen</code> 5
About 2	B	<code>\bibrightbracket</code> 5
<code>\AddCLEmph</code> 4	<code>biblatex</code> 5	<code>\bibrightparen</code> 5
<code>\AddEmph</code> 3 ff.	<code>biblatex</code> 2, 5	
Adding More Brackets ... 3 ff.	biblatex Compatibility 5	C
<code>\AddOpEmph</code> 4	<code>\bibleftbracket</code> 5	<code>\ChangeEmph</code> 2 ff.

D
`\DeleteEmph` 3, 5

E
`\emph` 2, 5
`expl3` 1

F
`fontspec` 2 f.

H
How it Works 2 f.

L
`l3kernel` 1
`l3keys2e` 1
`l3packages` 1
License 1

R
`\RenewEmph` 2 ff.
Requirements 1

T
`\textit` 2
`\textsi` 2 f.

X
`xparse` 1