The **latex-lab-text** package
Changes and additions to the kernel related to the tagging of various small text commands

LaTeX Project[*]

v0.85b 2024-09-18

Abstract

1 Introduction

The followings contains small changes to improve the tagging of (inline) text commands.

While the tagging of the LaTeX logo is quite straightforward, tagging of `\emph` as `EM` and `\textbf` as `Strong` can have unwanted side-effect as both tags are inline tags and so not every inner structure is allowed. Probably both commands will need an optional argument or a starred variant which suppress the tagging.

2 Implementation

```
1 ⟨*package⟩
```
```
2 ⟨@@=tag⟩
```

```
3 \ProvidesExplPackage {latex-lab-testphase-text} {\ltlabtextdate} {\ltlabtextversion}
4   {Code related to the tagging of various small text commands}
```

2.1 The LaTeX and TeX logo

This uses the generic hooks, so that it catches also other definitions. For `\LaTeX` we stop tagging to avoid that the inner `\TeX` leads to a double tagging.

```
5 \AddToHook{cmd/LaTeX/before}
6   {
7     \mode_leave_vertical:
8     \tag_mc_end_push:
9     \tag_struct_begin:n{tag=Span,actualtext=LaTeX}
10    \tag_mc_begin:n{}
11    \tag_suspend:n{LaTeX}
12  }
13 \AddToHook{cmd/LaTeX/after}
14  {
15    \tag_resume:n{LaTeX}
```

```
16    \tag_mc_end:
17    \tag_struct_end:
18    \tag_mc_begin_pop:n{}
19  }
20  \AddToHook{cmd/TeX/before}
21  {
22    \mode_leave_vertical:
23    \tag_mc_end_push:
24    \tag_struct_begin:n{tag=Span,actualtext=TeX}
25    \tag_mc_begin:n{}
26  }
27  \AddToHook{cmd/TeX/after}
28  {
29    \tag_mc_end:
30    \tag_struct_end:
31    \tag_mc_begin_pop:n{}
32  }
```

2.2   Emphasizing

We tag \emph but leave commands like \textbf alone, as it is not clear if they always have a semantic meaning.

```
33  \AddToHook{cmd/emph/before}
34    {
35      \mode_leave_vertical:
36      \tag_mc_end_push:
37      \tag_struct_begin:n{tag=Em}
38      \tag_mc_begin:n{}
39    }
40
41  \AddToHook{cmd/emph/after}
42    {
43      \tag_mc_end:
44      \tag_struct_end:
45      \tag_mc_begin_pop:n{}
46    }
47  ⟨/package⟩
48  ⟨*latex-lab⟩
49  \ProvidesFile{text-latex-lab-testphase.ltx}
50        [\ltlabtextdate\space v\ltlabtextversion\space
51          code related to the tagging of various small text commands]
52
53  \RequirePackage{latex-lab-testphase-text}
54
55  ⟨/latex-lab⟩
```