

The latex-lab-minipage package

Changes related to the tagging of minipage and parbox

L^AT_EX Project*

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Abstract

1 Introduction

How to tag minipages and parboxes is still under discussion. But as they start and contain paragraphs it is clear that hooks are needed to interrupt and restart the tagging.

The tagging added is currently quite simple minded. See the todo-testfiles and the code comments for some open points.

1 `<*package>`

2 Implementation

2 `\ProvidesExplPackage {latex-lab-testphase-minipage}`
3 `{\ltlabminipagedate} {\ltlabminipageversion}`
4 `{Code related to the tagging of minipages and parboxes}`

As minipage uses a socket from the footnote code we must load the OR-code:

5 `\RequirePackage{latex-lab-testphase-new-or-1}`
6 `\RequirePackage{latex-lab-testphase-new-or-2}`

2.1 Provide the kernel hooks

[kernel?] We need to check/set the status before the initial `\leavevmode` to decide how to handle the structure. Perhaps the same command will work for both?

7 `\def\@kernel@init@minipage{}`
8 `\def\@kernel@init@parbox{}`

We need a few hooks.

9 `\def\@kernel@before@minipage{}`
10 `\def\@kernel@after@minipage{}`
11 `\def\@kernel@before@parbox{}`
12 `\def\@kernel@after@parbox{}`

*Initial implementation done by Ulrike Fischer

2.2 Patch minipage

[kernel?] The begin hook is inserted in \@iiiminipage

```
13 \def\@iiiminipage#1#2[#3]#4{%
```

Before switching to hmode we insert a hook. It is currently unused but could for example check if we are in vmode and change the following paragraph tag.

```
14 \@kernel@init@minipage
15 \leavevmode
16 \@pboxswfalse
17 \setlength\@tempdima{#4}%
18 \def\@mpargs{#{1}#{2}#{3}#{4}}%
```

insert the hook

```
19 \@kernel@before@minipage% new
20 \setbox\@tempboxa\vbox\bgroup
21 \color@begingroup
22 \hsize\@tempdima
23 \textwidth\hsize \columnwidth\hsize
24 \@parboxrestore
25 \def\@mpfn{mpfootnote}\def\thempfn{\thempfootnote}\c@mpfootnote\z@
26 \AssignSocketPlug{fntext/process}{mp}%
27 \let\@listdepth\@mplistdepth \@mplistdepth\z@
28 \minipagerestore
29 \setminipage}
```

And a hook at the end

```
30 \def\endminipage{%
31 \par
32 \unskip
33 \ifvoid\@mpfootins\else
34 \vskip\skip\@mpfootins
35 \normalcolor
36 \footnoterule
37 \unvbox\@mpfootins
38 \fi
39 \@minipagefalse %% added 24 May 89
40 \color@endgroup
41 \egroup
```

as the parbox command is called, we must prevent that it adds its additional tagging commands:

```
42 \tag_stop:n{minipage}
43 \expandafter\@iiiparbox\@mpargs{\unvbox\@tempboxa}%
44 \tag_start:n{minipage}
45 \@kernel@after@minipage%new end ...
46 }
```

And similar for \parbox

```
47 \long\def\@iiiparbox#1#2[#3]#4#5{%
48 \@kernel@init@parbox
49 \leavevmode
50 \@pboxswfalse
51 \setlength\@tempdima{#4}%
52 \@kernel@before@parbox% new
53 \@begin@tempboxa\vbox{\hsize\@tempdima\@parboxrestore#5\@@par}%
```

```

54 \ifx\relax#2\else
55 \setlength\@tempdimb{#2}%
56 \edef\@parboxto{to\the\@tempdimb}%
57 \fi
58 \if#1b\vbox
59 \else\if #1t\vtop
60 \else\ifmmode\vcenter
61 \else\@pboxswtrue $\vcenter
62 \fi\fi\fi
63 \@parboxto{\let\hss\vss\let\unhbox\unvbox
64 \csname bm@#3\endcsname}%
65 \if@pboxsw \m@th$\fi
66 \@end@tempboxa%
67 \@kernel@after@parbox%new end
68 }

```

2.3 Tagging commands

```

69 \tl_new:N \l__ltboxes_tag_tl
70 \tl_set:Nn \l__ltboxes_tag_tl {Div}
71 \cs_set_protected:Npn\@kernel@before@minipage
72 {

```

As there was a `\leavevmode` before that is a P/text open that we have to close.

```

73 \tag_mc_end_push:\tag_struct_end:

```

TODO: the P can be further up, we need a proper method to test and handle this.

```

74 \tag_struct_begin:n{tag=\l__ltboxes_tag_tl}
75 \cs_set_protected:Npn\@kernel@after@minipage
76 {\tag_struct_end:\tag_struct_begin:n{tag=\l__tag_para_tag_tl}\tag_mc_begin_pop:n{}}
77 \cs_set_protected:Npn\@kernel@before@parbox
78 {\tag_mc_end_push:\tag_struct_end:\tag_struct_begin:n{tag=\l__ltboxes_tag_tl}}
79 \cs_set_protected:Npn\@kernel@after@parbox
80 {\tag_struct_end:\tag_struct_begin:n{tag=\l__tag_para_tag_tl}\tag_mc_begin_pop:n{}}
81 \</package>
82 \<*/latex-lab>
83 \ProvidesFile{minipage-latex-lab-testphase.ltx}
84 [\l\tlabminipagedate\space v\l\tlabminipageversion
85 code related to the tagging of minipage and parbox]
86 \RequirePackage{latex-lab-testphase-minipage}
87 \</latex-lab>

```