

The `toc-hyperref-changes` package

Changes and additions to `hyperref` related to toc entries

L^AT_EX Project*

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Abstract

1 Introduction

The followings contains various change needed for `hyperref` for the new toc tagging code. They should be only loaded if `hyperref` is used!

```
1 \*package)
```

2 Changes for `hyperref`

2.1 `\contentsline`, `\addcontentsline`

The standard `\contentsline` and `\addcontentsline` should also be used with `hyperref` (together with more changes below) so we have to disable the redefinition in `hyperref` (this requires `hyperref` version 7.00v!

```
2 \def\hyper@nopatch@toc{}
3 \AddToHook{package/hyperref/after}
4 {
5   \@ifpackagelater{hyperref}{2023-02-07}{}
6   {\PackageWarning{latex-lab-testphase-toc-tagging}{hyperref too old}{}
7 }
```

2.2 Add links to toc entries

```
8 \ExplSyntaxOn
9 \AddToHook{package/hyperref/after}
10 {
11   \AddToHook{contentsline/text/before}[hyp]
12   {
13     \tl_if_blank:VF \@contentsline@arg@two{text
14     {
15       \tl_if_blank:VF \@contentsline@arg@four%destination
16       {
17         \int_case:nnF {\Hy@linktoc}
```

*Initial implementation done by Ulrike Fischer

```

18         {
19             {0}{} %none
20             {1}{\hyper@linkstart{link}{\@contentsline@arg@four}} %section
21             {2}{} %page
22         }
23         {\hyper@linkstart{link}{\@contentsline@arg@four}} %all
24     }
25 }
26 }
27 \AddToHook{contentsline/text/after}[hyp]
28 {
29     \tl_if_blank:VF \@contentsline@arg@two
30     {
31         \tl_if_blank:VF \@contentsline@arg@four
32         {
33             \int_case:nnF {\Hy@linktoc}
34             {
35                 {0}{} %none
36                 {1}{\hyper@linkend} %section
37                 {2}{} %page
38             }
39             {\hyper@linkend} %all
40         } % none
41     }
42 }
43
44 \AddToHook{contentsline/page/before}[hyp]
45 {
46     \tl_if_blank:VF \@contentsline@arg@three
47     {
48         \tl_if_blank:VF \@contentsline@arg@two
49         {
50             \int_case:nnF {\Hy@linktoc}
51             {
52                 {0}{} %none
53                 {1}{} %section
54                 {2}{\hyper@linkstart{link}{\@contentsline@arg@four}} %page
55             }
56             {\hyper@linkstart{link}{\@contentsline@arg@four}} %all
57         } % none
58     }
59 }
60 \AddToHook{contentsline/page/after}[hyp]
61 {
62     \tl_if_blank:VF \@contentsline@arg@three
63     {
64         \tl_if_blank:VF \@contentsline@arg@four
65         {
66             \int_case:nnF {\Hy@linktoc}
67             {
68                 {0}{} %none
69                 {1}{} %section
70                 {2}{\hyper@linkend} %page
71             }

```

```

72         {\hyper@linkend} %all
73     } % none
74 }
75 }
76 \AddToHook{cmd/addcontentsline/before}[hyp]
77 {%
78     \ExpandArgs{ooo}
79     \Hy@addcontentsline@addbookmark
80     {\addcontentsline@arg@one}
81     {\addcontentsline@arg@two}
82     {\addcontentsline@arg@three}%
83 }
84 }
85 \ExplSyntaxOff

```

2.3 Add bookmark code to \addcontentsline

```

86 \newcommand\Hy@addcontentsline@addbookmark[3] {%#1 toc type, #2 level, #3 content
87     {%
88         \ifx\@currentHref\@empty
89             \Hy@Warning{%
90                 No destination for bookmark of \string\addcontentsline,%
91                 \MessageBreak destination is added%
92             }%
93             \phantomsection
94         \fi
95         \begingroup
96             \expandafter\ifx\csname toclevel@#2\endcsname\relax
97                 \begingroup
98                     \def\Hy@tempa{#1}%
99                     \ifx\Hy@tempa\Hy@bookmarkstype
100                         \Hy@WarningNoLine{%
101                             bookmark level for unknown #2 defaults to 0%
102                         }%
103                     \else
104                         \Hy@Info{bookmark level for unknown #2 defaults to 0}%
105                     \fi
106                 \endgroup
107                 \expandafter\gdef\csname toclevel@#2\endcsname{0}%
108             \fi
109             \edef\Hy@toclevel{\csname toclevel@#2\endcsname}%
110             \Hy@writebookmark{\csname the#2\endcsname}%
111                 {#3}%
112                 {\@currentHref}%
113                 {\Hy@toclevel}%
114                 {#1}%
115             \ifHy@verbose
116                 \begingroup
117                     \def\Hy@tempa{#3}%
118                     \@onelevel@sanitize\Hy@tempa
119                     \let\temp@online\on@line
120                     \let\on@line\@empty
121                     \Hy@Info{%
122                         bookmark\temp@online:\MessageBreak
123                         thecounter {\csname the#2\endcsname}\MessageBreak

```

```

124         text {\Hy@tempa}\MessageBreak
125         reference {\@currentHref}\MessageBreak
126         toplevel {\Hy@toplevel}\MessageBreak
127         type {#1}%
128     }%
129 \endgroup
130 \fi
131 \endgroup
132 }
133 \end{package}

```