

# The latex-lab-toc-hyperref-changes package

## Changes and additions to hyperref related to toc entries

L<sup>A</sup>T<sub>E</sub>X 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   \AddToHookWithArguments{contentsline/text/before}[hyp]
12   {
13     \tl_if_blank:nF {#2}%text
14     {
15       \tl_if_blank:nF {#4}%destination
16       {
17         \int_case:nnF {\Hy@linktoc}
18         {
```

---

\*Initial implementation done by Ulrike Fischer

```

19         {0}{} %none
20         {1}{\hyper@linkstart{link}{#4}} %section
21         {2}{} %page
22     }
23     {\hyper@linkstart{link}{#4}} %all
24 }
25 }
26 }
27 \AddToHookWithArguments{contentsline/text/after}[hyp]
28 {
29     \tl_if_blank:nF {#2}
30     {
31         \tl_if_blank:nF {#4}
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 \AddToHookWithArguments{contentsline/page/before}[hyp]
45 {
46     \tl_if_blank:nF {#3}
47     {
48         \tl_if_blank:nF {#4} %
49         {
50             \int_case:nnF {\Hy@linktoc}
51             {
52                 {0}{} %none
53                 {1}{} %section
54                 {2}{\hyper@linkstart{link}{#4}} %page
55             }
56             {\hyper@linkstart{link}{#4}} %all
57         } % none
58     }
59 }
60 \AddToHookWithArguments{contentsline/page/after}[hyp]
61 {
62     \tl_if_blank:nF {#3}
63     {
64         \tl_if_blank:nF {#4}
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 \AddToHookWithArguments{cmd/addcontentsline/before}[hyp]
77 {%
78     \Hy@addcontentsline@addbookmark
79     {#1}
80     {#2}
81     {#3}%
82 }
83 }
84 \ExplSyntaxOff

```

## 2.3 Add bookmark code to \addcontentsline

```

85 \newcommand\Hy@addcontentsline@addbookmark[3]%#1 toc type, #2 level, #3 content
86 {%
87     \ifHy@bookmarks
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 toplevel@#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 toplevel@#2\endcsname{0}%
108     \fi
109     \edef\Hy@toclevel{\csname toplevel@#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 \fi
133 }
134 </package>

```