

# hypertoc.sty

## Decent Links in Tables of Contents\*

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### Abstract

`hypertoc.sty` changes macros for the table of contents so that colored frames to indicate links look acceptable. In the present version, this is achieved by inserting struts and only addresses L<sup>A</sup>T<sub>E</sub>X's standard `article.cls`.

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## 1 Why

By default, the `hyperref` package highlights sectioning titles as printed in the table of contents (TOC) by red-framed boxes. It looks horrible, because of (i) the aggressive color and (ii) the irregular, “random” shapes of the boxes.

To avoid this, it seems to be standard to use `hyperref`'s package option `[colorlinks]`. I don't like this either. It is confusing as to how the printed output will look like, the chosen color doesn't create a much more pleasant look; indeed, the publisher's graphical designer may have chosen colors for printing the table of contents—this design then is spoiled.

Therefore I prefer (a) choosing a more decent color and (b) using struts so that the boxes have a more regular shape.

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\*This document describes version `v0.1` of `hypertoc.sty` as of 2011/01/23.

<sup>†</sup><http://contact-ednotes.sty.de.vu>

In a publisher's package I even have found the idea to make a box for the entire TOC entry, including the page number. Then the frames look regular indeed, and you need less precision in moving the mouse for clicking at an entry. It would be nice if this could be integrated here later.

## 2 Usage

The file `hypertoc.sty` is provided ready, installation only requires putting it somewhere where  $\TeX$  finds it (which may need updating the filename data base).<sup>1</sup>

Below the `\documentclass` line(s) and above `\begin{document}`, you load `hypertoc.sty` (as usually) by

```
\usepackage{hypertoc}
```

This controls the *shapes* of the frames. The *color* must be chosen by the `hyperref` package option `[linkbordercolor]`, I have used

```
linkbordercolor={1_9_7},
```

—cf. `makedoc.cfg`.

## 3 The Package File

The package essentially has just *six* code lines at present.

```
1 \NeedsTeXFormat{LaTeX2e}[1994/12/01]
2 \ProvidesPackage{hypertoc}[2011/01/23 v0.1 pretty TOC links (UL)]
3
4 %% Copyright (C) 2011 Uwe Lueck,
5 %% http://www.contact-ednotes.sty.de.vu
6 %% -- author-maintained in the sense of LPPL below --
7 %%
8 %% This file can be redistributed and/or modified under
9 %% the terms of the LaTeX Project Public License; either
10 %% version 1.3c of the License, or any later version.
11 %% The latest version of this license is in
12 %% http://www.latex-project.org/lppl.txt
13 %% We did our best to help you, but there is NO WARRANTY.
14 %%
15 %% Please report bugs, problems, and suggestions via
16 %%
17 %% http://www.contact-ednotes.sty.de.vu
18 %%
```

Modifying `\@dottedtocline`:

---

<sup>1</sup><http://www.tex.ac.uk/cgi-bin/texfaq2html?label=inst-wlcf>

```

19 \let\HTOC@@line\@dottedtocline
20 \renewcommand*{\@dottedtocline}[4]{%
21     \HTOC@@line{#1}{#2}{#3}{\mathstrut#4\mathstrut}}

```

`\mathstrut` is like `\vphantom{()}`, it indeed expands to `\vphantom{()}` in L<sup>A</sup>T<sub>E</sub>X (as in plain T<sub>E</sub>X).

Modifying `\l@section`:

```

22 \let\HTOC@@section\l@section
23 \renewcommand*{\l@section}[1]{%
24     \HTOC@@section{\mathstrut#1\mathstrut}}

```

Leaving:

```

25 \endinput

```

## 4 **VERSION HISTORY**

```

26 v0.1   2011/01/23   very first
27

```