

blog.sty

Generating HTML Quickly with T_EX*

Uwe Lück[†]

September 2, 2011

Abstract

`blog.sty` provides T_EX macros for generating web pages, based on processing text files using the `fifinddo` package. Some L^AT_EX commands are redefined to access their HTML equivalents, other new macro names “quote” the names of HTML elements. The package has evolved in several little steps each aiming at getting pretty-looking “hypertext” **notes** with little effort, where “little effort” also has meant avoiding studying documentation of similar packages already existing. [TODO: list them!] The package “*misuses*” T_EX’s macro language for generating HTML code and entirely *ignores* T_EX’s typesetting capabilities.

Contents

1	Installing and Usage	2
2	Examples	3
2.1	A Very Plain Style	3
2.1.1	Driver File <code>makehtml.tex</code>	3
2.1.2	Source File <code>texmap.tex</code>	4
2.2	A Style with a Navigation Column	5
2.2.1	Driver File <code>makehtml.tex</code>	5
2.2.2	Source File <code>schreibt.tex</code>	6
3	The Package File	7
3.1	Package File Header (Legalize)	7
3.2	Processing	7
3.3	General HTML Matters	9
3.3.1	General Tagging	9

*This document describes version **v0.5** of `blog.sty` as of 2011/08/31.

[†]<http://contact-ednotes.sty.de.vu>

3.3.2	Attributes	9
3.3.3	HTML's Special Symbols	11
3.3.4	Head	11
3.3.5	Body	12
3.4	Fonts	12
3.5	Logical Markup	13
3.6	Environments	13
3.7	Links	15
3.7.1	Basic Link Macros	15
3.7.2	Special cases of Basic Link Macros	15
3.7.3	Italic Variants	16
3.7.4	Built Macros for Links to Local Files	16
3.7.5	Built Macros for Links to Remote Files	16
3.8	Symbols	17
3.8.1	Basic Preliminaries	17
3.8.2	Diacritics	18
3.8.3	Greek	18
3.8.4	Arrows	19
3.8.5	Dashes	19
3.8.6	Spaces	19
3.8.7	Quotes, Apostrophe, Prime	20
3.8.8	Math	21
3.8.9	Other	22
3.9	TeX-related	22
3.9.1	Logos	23
3.9.2	Else	23
3.10	Tables	23
3.10.1	Indenting	23
3.10.2	Starting/Ending Tables	23
3.10.3	Rows	24
3.10.4	Cells	24
3.10.5	Filling a Row with Dummy Cells	25
3.11	Misc	25
3.12	The End	26
3.13	VERSION HISTORY	26

1 Installing and Usage

The file `blog.sty` is provided ready, **installation** only requires putting it somewhere where TeX finds it (which may need updating the filename data base).¹

User commands are described near their implementation below.

However, we must present an **outline** of the procedure for generating HTML files:

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

At least one **driver** file and one **source** file are needed.

The **driver** file's name is stored in `\jobname`. It loads `blog.sty` by

```
\RequirePackage{blog}
```

and uses file handling commands from `blog.sty` and `fifinddo` (cf. `mdoccheat.pdf` from the `nicetext` bundle). It chooses **source** files and the name(s) for the resulting HTML file(s). It may also need to load local settings, such as for the language (`lang-de.fdf`, `lang-en.fdf`), and settings for converting the editor's text encoding into the encoding that the head of the resulting HTML file advertises (`atari.fdf` in the `nicetext` bundle).

The driver file could be run a terminal dialogue in order to choose source and target files and settings. So far, I rather have programmed a dialogue just for converting UTF-8 into an encoding that my Atari editor `xEDIT` can deal with. I do not present this now because it was conceptually mistaken, I must set up this conversion from scratch some time.

The **source** file(s) should contain user commands defined below to generate the necessary `<head>` section and the `<body>` tags.

2 Examples

2.1 A Very Plain Style

My “`TEX`-generated pages”² use a **driver** file `makehtml.tex`. To choose a page to generate, I “uncomment”ed just one of several lines that set the “current conversion job” from a list (for some time). I choose the example of a simple “site map:” `texmap.htm` is generated from **source** file `texmap.tex`.—More recently however, I have started to read the job name and perhaps extra settings from a file `jobname.tex` that is created by a Bash script.

In order to make it easier for the reader to see what is essential, I have moved many `.cfg`-like extra definitions into a file `texblog.fdf`. Some of these definitions may later move into `blog.sty`. You should find `makehtml.tex`, `texmap.tex`, and `texblog.fdf` in a directory `demo/texblog`, perhaps you can use them as templates.

2.1.1 Driver File ‘`makehtml.tex`’

```
1 \def \GenDate {2011/09/01}
  \ProvidesFile{makehtml.tex}[\GenDate\space HTML driver]
  \RequirePackage{blog,texlinks}
  \RequirePackage{dhusw}           %% or from lang-de.fdf
5 \input{atari.fdf}\input{lang-en.fdf}
  %%%%%%%%%%%
  % \input{jobname}             %% write with "echo"
  \def \htmljob
```

²www.webdesign-bu.de/uwe_lueck/texmap.htm

```

{texmap}
10 %%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
% {heyctan} %%% \def\pkg{\privpkgnamefmt}
% {makeshow}
% {texhax}
% {aaoe1550}
15 % {jobs} %%% \BlogAutoPars
%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
% {beobacht} \input{lang-de.fdf}
% {gtd} \input{lang-de.fdf}
% {STEUER} \input{lang-de.fdf}
20 % {GALLEY} \input{lang-de.fdf}
%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
\input{texblog.fdf}
\ResultFile{\htmljob\htext}
\typeout{^J\screentd{blog.sty} generating
25 \screentd{\htmljob\htext}}
\BlogCopyFile[\TextCodes %%% was \AtariCodes until 2011/08/22
\MakeActiveDef"\{\catchdq}%
]\{\htmljob.tex}
\CloseResultFile
30 \stop

```

2.1.2 Source File ‘texmap.tex’

```

1 \ProvidesFile{texmap.tex}[2011/08/18 TeX-generated: overview]
% <- for blog/myfilist.sty 2011/02/22
\comment{ 2011/01/25 \string\endash\ -> \string\pardash\ }
\comment{ 2010/12/05 \string\emdash\ -> \string\endash\ }
5 \head \charset{ISO-8859-1} %%% {utf-8}
\textrobots
\textstylesheet
\title{TeX-generated pages - U. L.}
\body \texttopofpage
10 \heading1{Uwe Lück's \TeX-generated/related pages}
% \emdash\,I'm playing with a different style of pages here.
% \hrule\ \ %%% \endgraf
The present page leads you to:
15 \begin{enumerate} %%% ‘\href’ 2011/08/18:
\item \href{index.html}{\file{index}}\pardash my English main page
\item \href{schreibt.html}{\file{schreibt}}\pardash my German main page
\hrule
\item \Fileref{aaoe1550}\pardash UMTS stick with Linux netbook
20 \item \Fileref{heyctan}\pardash CTAN discoveries
\item \Fileref{jobs}\pardash coaching %%% explained 2010/09/24

```

```

        \item \Fileref{makeshow}\pardash\TeX\ almost WYSIWYG \dots
        \item \Fileref{texhax}\pardash studies on texhax postings
    \hrule
25   \item \Fileref{beobacht}~\endash\ \dedqtd{Web-Tagebuch}
        \item \Fileref{gtd}~\endash\ \dedqtd{Getting Things Done}
        \item \Fileref{oeffnotz}~\endash\ \dedqtd{ffentliche Notizen} %% 2011/08/16b
    \end{enumerate}

30   \hrule
        \enlastrev
        \entotopofpage
        \fivebreaks \fivebreaks
        \finish

```

2.2 A Style with a Navigation Column

A style of web pages looking more professional than `texmap.htm` (while perhaps becoming outdated) has a small navigation column on the left, side by side with a column for the main content. Both columns are spanned by a header section above and a footer section below. The package `lnavicol.sty` provides commands `\PAGEHEAD`, `\PAGENAVI`, `\PAGEMAIN`, `\PAGEFOOT`, `\PAGEEND` (and some more) for structuring the source so that the code following `\PAGEHEAD` generates the header, the code following `\PAGENAVI` forms the content of the navigation column, etc. For real professionalism, somebody must add some fine CSS, and the macros mentioned may need to be redefined to use the `@class` attribute. Also, I am not sure about the table macros in `blog.sty`, so much may change later.

With things like these, can `blog.sty` become a part of a “content management system” for \TeX addicts? This idea rather is based on the *German* Wikipedia article.

As an example, I present parts of the source for my “home page”³. As the footer is the same on all pages of this style, it is added in the driver file `makehtml.tex`. `schreibt.tex` is the source file for generating `schreibt.html`. You should find *this* `makehtml.tex`, a cut down version of `schreibt.tex`, and `writings.fdf` with my extra macros for these pages in a directory `demo/writings`, hopefully useful as templates.

2.2.1 Driver File ‘makehtml.tex’

```

1   \def \GenDate {2011/09/02}
        \ProvidesFile{makehtml.tex}
            [\GenDate\space TeX engine for "writings"]
        \RequirePackage{blog,texlinks,lnavicol}      %% 2011/09/02
5   \input{atari.fdf} \input{lang-en.fdf}
        %%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
        \def \htmljob

```

³www.webdesign-bu.de/uwe_lueck/schreibt.html

```

% {_sitemap}
% {index} \BlogAutoPars
10 {schreibt} \input{lang-de.fdf} \BlogAutoPars
%%
% {about} \BlogAutoPars
% {contact} % \tighttrue
% {kontakt} \input{lang-de.fdf} % \tighttrue
15 % {tutor} \input{lang-de.fdf} \BlogAutoPars \deeprtrue
%%
% {writings} \BlogAutoPars \deeprtrue
% {repres} \BlogAutoPars \deeprtrue
% {criterd1} \BlogAutoPars \deeprtrue
20 % {ednworks} \BlogAutoPars
% {public} \BlogAutoPars \deeprtrue
% {texproj} \BlogAutoPars % \deeprtrue
%%
\input{writings.fdf}
25
\ResultFile{\htmljob\htmakeext}
\typeout{^^J\screentqd{blog.sty} generating
\screentqd{\htmljob\htmakeext}}
\WriteResult\writdoctype %% TODO
30 \BlogCopyFile[\TextCodes
\MakeActiveDef"\{\catchdq}% %% TODO attributes!
]\{\htmljob.tex}
\WriteResult{\PAGEFOOT}
\WriteResult{\indentii\rainermaster}
35 \WriteResult{\indentii\}
\WriteResult{\indentii\ueberseeport}
\WriteResult{\PAGEEND}
\ifdeep \WriteResult{\indentii\vspace{280}} \fi
\WriteResult{\finish}
40 \CloseResultFile
\stop

```

2.2.2 Source File ‘schreibt.tex’

```

1 \ProvidesFile{schreibt.tex}[2011/08/19 f. schreibt.html]
\head \charset{ISO-8859-1}
\writrobots
\writstylesheets
5 \title{\Uwe\ schreibt} \body \writtopofpage
\PAGEHEAD
\headuseskiptitle{%
\timecontimgref{writings}{0}{Zeit-Logo}{Russells Zeit}%
}{10}{\Uwe\ \dqtd{schreibt}}

```

```

10 \PAGENAVI
    \fileitem{writings}{Intervallordnungen (Mathematik~etc.)}
    \fileitem{public}{Publikationen}
    \hrule
    \fileitem{critedltx}{Softwarepakete f\"ur kritische Editionen}
15 \fileitem{texproj}{TeX-Projekte} %% Makro-Projekte}
    \hrule
    \fileitem{tutor}{Mathe-Tutor}
    \indentii\item\href{texmap.htm}{Notizen}
    \hrule
20 \deFIabout \deFIkontakt
    \PAGEMAIN
    \strong{Wissenschaft:}\enspace Diese Seiten entstanden zuerst
    zur Prsentation zweier ETC.

25 \rightpar{\textit{Worms-Pfeddersheim, den 19.~August 2011,\\\Uwe}}
    \% \rightpar{\textit{München, den 31.~Juli 2011,\\\Uwe}}
    %% <- TODO VERSION

```

3 The Package File

3.1 Package File Header (Legalize)

```

1 \NeedsTeXFormat{LaTeX2e}[1994/12/01] %% \newcommand* etc.
2 \ProvidesPackage{blog}[2011/08/31 v0.5 simple fast HTML (UL)]
3 %% copyright (C) 2010 2011 Uwe Lueck,
4 %% http://www.contact-ednotes.sty.de.vu
5 %% -- author-maintained in the sense of LPPL below.
6 %%
7 %% This file can be redistributed and/or modified under
8 %% the terms of the LaTeX Project Public License; either
9 %% version 1.3c of the License, or any later version.
10 %% The latest version of this license is in
11 %% http://www.latex-project.org/lppl.txt
12 %% We did our best to help you, but there is NO WARRANTY.
13 %%
14 %% Please report bugs, problems, and suggestions via
15 %%
16 %% http://www.contact-ednotes.sty.de.vu
17 %%

```

3.2 Processing

We are building on the `fifinddo` package:

```
18 \RequirePackage{fifinddo}
```

`\CLBrk` is a *code line break* (also saving subsequent comment mark):

```
19 \newcommand*{\CLBrk}{^^J}
```

`\BlogCopyFile`[*changes*][*src-file*] “copies” the TeX source file *src-file* into the file specified by `\ResultFile`. As in TeX an empty line starts a new paragraph, we “interpret” an empty source line as HTML tag `<p>` for starting a new paragraph. Empty source lines following some first empty source line immediately are ignored (“compression” of empty lines).—However, I am not entirely sure that this won’t have unwanted effects, so it must be required explicitly by `\BlogAutoPars`, or by calling the package with option `[autopars]`. In the latter case, it can be turned off by `\noBlogAutoPars`

```
20 \newif\ifBlogAutoPars
21 \newcommand*{\BlogAutoPars}{\BlogAutoParstrue}
22 \newcommand*{\noBlogAutoPars}{\BlogAutoParsfalse}
23 \DeclareOption{autopars}{\BlogAutoPars}
24 \ProcessOptions
25 \MakeOther\< \MakeOther\>           %% TODO ...
26 \newcommand*{\BlogCopyFile}[2] []{%
27   \ProcessFileWith[\BlogCodes
28     \let\ProvidesFile\BlogProvidesFile %% 2011/02/24
29     \let\protect\@empty                %% 2011/03/24
30     #1]{#2}{%
31     \IfFDinputEmpty
32       {\IfFDpreviousInputEmpty
33         \relax
34         {\WriteResult{\ifBlogAutoPars<p>\fi}}}%
35     \CopyLine
36   }%
37 }
```

For a while, line endings swallowed inter-word spaces, until I found the setting of `\endlinechar` (ffinddo’s default is -1) in `\BlogCodes`:

```
38 \newcommand*{\BlogCodes}{%           %% 2010/09/07
39   \endlinechar'\ \catcode'\~\active \BasicNormalCatCodes}
```

The tilde is active as in Plain TeX too, it is so natural to use it for abbreviating HTML’s ` `!

`\ProvidesFile`{*file-name.tex*}[*file-info*] is supported for use with the `myfilist` package to get a list of source file infos. In generating the HTML file, the file infos are transformed into an HTML comment. Actually it is `\BlogProvidesFile` (for the time being, 2011/02/22):

```
40 \@ifdefinable\BlogProvidesFile{%
41   \def\BlogProvidesFile#1[#2]{%
42     \comment{ generated from\CLBrk\CLBrk
43       \ \ \ \ \ \ \ \ #1, #2,\CLBrk\CLBrk
44       \ \ \ \ \ with blog.sty,
45       \GenDate\ }}           %% TODO predefine?
```


([TODO](#): customizable style.)—Due to the limitations of the approach reading the source file line by line, the “optional argument” [*file-info*] of `\ProvidesFile` must appear in the same line as the closing brace of its mandatory argument. The feature may require inserting

```
\let\ProvidesFile\BlogProvidesFile
```

somewhere, e.g., in `\BlogCopyFile`.

3.3 General HTML Matters

The following stuff is required for any web page (or hardly evitable).

3.3.1 General Tagging

```
\TagSurr{<el-name>}{<attr>}{<content>}
```

(I hoped this way code would be more readable than with `\TagSurround ...`) and

```
\SimpleTagSurr{<el-name>}{<content>}
```

are used to avoid repeating element names *<el-name>* in definitions of `TEX` macros that refer to “entire” elements—as opposed to elements whose content often spans lines (as readable HTML code). We will handle the latter kind of elements using L^AT_EX’s idea of “environments.” `\TagSurr` also inserts specifications of element **attributes**, [[TODO](#): `wiki.sty` syntax would be so nice here] while `\SimpleTagSurr` is for elements used without specifying attributes. `\STS` is an abbreviation for `\SimpleTagSurr` that is useful as the `\SimpleTagSurr` function occurs so frequently:

```
46 \newcommand*\SimpleTagSurr[2]{<#1>#2</#1>}
47 \newcommand*\STS{} \let\STS\SimpleTagSurr %% 2010/05/23
48 \newcommand*\TagSurr[3]{<#1 #2>#3</#1>}
```

3.3.2 Attributes

Inspired by the common way to use `@` for referring to element attributes—i.e., `@<attr>` refers to attribute *<attr>*—in HTML/XML documentation, we often use

```
\@<attr>{<value>} to “abbreviate” <attr>="<value>"
```

within the starting tag of an HTML element. This does not really make typing easier or improve readability, it rather saves `TEX`’s memory by using a single token for referring to an attribute. This “abbreviation” is declared by `\declareHTMLattrib{<attr>}`, even with a check whether `\@<attr>` has been defined before:

```

49 \newcommand*\declareHTMLattrib[1]{%
50   \def\reserved@a{#1}%
51   \ifundefined{#1}%
52   %           {\@namedef{#1}##1{ #1="##1"}}%
53   {\@namedef{#1}##1{#1="##1"}}%
54   \notdefinable}

```

So after `\declareHTMLattrib{<attr>}`, `\@<attr>` is a T_EX macro expecting one parameter for the specification.

A few frequent attributes are declared this way here. `@href` is most important for that “hyper-text:”

```
55 \declareHTMLattrib{href}
```

... and `@name` (among other uses) is needed for `@name` for hyper-text anchors:

```
56 \declareHTMLattrib{name}           %% 2010/11/06
```

Many elements have the `@type` attribute:

```
57 \declareHTMLattrib{type}
```

`@title` for tooltips:

```
58 \let\@title\relax
59 \declareHTMLattrib{title}         %% 2011/04/26
```

`@bgcolor` is used in tables as well as for the appearance of the entire page:

```
60 \declareHTMLattrib{bgcolor}
```

Of course, conflicts may occur, as the form `\@<ASCII-chars>` of macro names is used for internal (La)T_EX macros. Indeed, `\@width` that we want to have for the `@width` attribute already “abbreviates” T_EX’s “keyword” (T_EXbook p. 61) `width` in L^AT_EX (for specifying the width of a `\hrule` or `\vrule` from T_EX; again just saving T_EX tokens rather than for readability).

```
61 \PackageWarning{blog}{Redefining \protect\@width}
62 \let\@width\relax
63 \declareHTMLattrib{width}
```

Same with `@height`:

```
64 \PackageWarning{blog}{Redefining \protect\@height}
65 \let\@height\relax
66 \declareHTMLattrib{height}       %% 2010/07/24
```

We can enumerate the specifications allowed for `@align`:

```
67 \newcommand*\@align@c{\@align{center}}
68 \newcommand*\@align@l{\@align{left}}
69 \newcommand*\@align@r{\@align{right}}
70 \newcommand*\@align[1]{align="#1"}

```

`@valign@t`:

```
71 \newcommand*{\@valign@t}{v\@align{top}} %% 2011/04/24
```

Some other uses of `\declareHTMLattrib` essential for *tables*:

```
72 \declareHTMLattrib{border}           %% 2011/04/24
73 \declareHTMLattrib{class}           %% 2011/04/24
74 \declareHTMLattrib{cellpadding}     %% 2010/07/18
75 \declareHTMLattrib{cellspacing}     %% 2010/07/18
76 \declareHTMLattrib{colspan}         %% 2010/07/17
77 \declareHTMLattrib{frame}           %% 2010/07/24
```

Another problem with this namespace idea is that *either* this reference to attributes cannot be used in “author” source files for generating HTML—*or* `@` cannot be used for “private” (internal) macros. Cf. `\ContentAtt` for `<meta>` tags ... well, not so bad, as the main purpose of this namespace is saving tokens *in macros*.

3.3.3 HTML’s Special Symbols

`#` is needed for numerical specifications in HTML, especially colors and Unicode symbols, while it plays a different (essential) role in our definitions of $\text{T}_{\text{E}}\text{X}$ macros here. We redefine $\text{L}^{\text{A}}\text{T}_{\text{E}}\text{X}$ ’s `\#` for a kind of “quoting” `#` in macro definitions in order to refer to their HTML meaning.—I **wonder** what I had in mind with the `&` things here. I cannot find any use of `\AmpMark` in my code (including my web pages). There is no real problem with calling special HTML symbols, `&` is simply made **other** already here for macros calling those symbols (below), and in processing source files, it is as well **other** by default. The symbols section, however, redefines `\&` for calling HTML’s ampersand symbol.

```
78 {\catcode'\&=12 \catcode'\#=12
79 \gdef\AmpMark{&} \gdef\#{#}}
```

... `\CompWordMark` etc.?

3.3.4 Head

`\head` produces the first two tags that an HTML file must start:

```
80 \newcommand*{\head}{<html><head>} %% ^^J rm 2010/10/10
```

`\MetaTag{inside}` and `\ContentAtt{value}` are internal shortcuts:

```
81 \newcommand*{\MetaTag}[1]{\space\space<meta #1>}
82 \newcommand*{\ContentAtt}[1]{content="#1"}
```

`\charset{code-page}`

```
83 \newcommand*{\charset}[1]{%
84 \MetaTag{http-equiv="Content-Type" \ContentAtt{text/html; #1}}}
```

`\description{text}` for web searches (I think):

```
85 \newcommand*\description[1]{%
86   \MetaTag{\@name{description} \ContentAtt{#1}}}
```

... an outright **mistake!** **TODO** The definition is overridden to get the HTML equivalent to L^AT_EX's `description` environment. `\newcommand` did not warn here because we don't load any L^AT_EX class for text-processing macros and code generation.—And so some `\MetaDescr` should be defined—and used finally!

`\robots{instructions}`:

```
87 \newcommand*\robots[1]{%% juergen: index, follow, noarchive
88   \MetaTag{\@name{robots} \ContentAtt{#1}}}
```

`\norobots` for privacy:

```
89 \newcommand*\norobots{\robots{noarchive,nofollow,noindex}}
```

`\stylesheet{media}{css}` uses `css.css` for `media="media"`:

```
90 \newcommand*\stylesheet[2]{%
91   \space\space                               %% 2010/09/10
92   <link rel="stylesheet" media="#1" type="text/css" \@href{#2.css}>}
```

With `\title{text}`, `text` heads the browser window:

```
93 \renewcommand*\title[1]{\space\space<title>#1</title>}
```

3.3.5 Body

`\body` separates the head element from the body element of the page.

```
94 \newcommand*\body{</head><body>}
```

`\topofpage` generates an anchor top-of-page:

```
95 \newcommand*\topofpage{\hanc{top-of-page}{}}
```

`\finish` finishes the page, closing the body and html elements.

```
96 \newcommand*\finish{</body></html>}
```

3.4 Fonts

`\heading{level}{text}` prints `text` with size dependent on `level`. The latter may be one out of 1, 2, 3, 4, 5, 6.

```
97 \newcommand*\heading[1]{\SimpleTagSurr{h#1}}
```

... I might use `\section` etc. one day, I made `\heading` when I could not control the sizes of the section titles properly and decided first to experiment with the level numbers.

We “re-use” some L^AT_EX commands for specifying font attributes, rather than (re)defining macros `\i`, `\b`, `\tt`, ...

`\textit{text}` just expands to `<i>text</i>`

```

98 \renewcommand*{\textit}{\SimpleTagSurr i}
etc. for \textbf, \texttt ...:
99 \renewcommand*{\textbf}{\SimpleTagSurr b}
100 \renewcommand*{\texttt}{\SimpleTagSurr{tt}}           %% 2010/06/07

\textsf{<text>} TODO (see some makehtml.tex)
\textcolor is from LATEX's color package that we won't load for gener-
ating HTML, so it is "new" here, it is just natural to use it for colored text
(2010/05/15):
101 \newcommand*{\textcolor}[1]{\TagSurr{font}{color="#1"}}

```

3.5 Logical Markup

`\code{<text>}` marks *<text>* as "code," just accessing the `<code>` element, while standard L^AT_EX does not provide a `\code` command:

```

102 \newcommand*{\code}   {\SimpleTagSurr{code}}   %% 2010/04/27

```

`\emph{<text>}` is L^AT_EX's command again, but somewhat abused, expanding to `<text>`:

```

103 \renewcommand*{\emph} {\SimpleTagSurr{em}}

```

... Note that L^AT_EX's `\emph` feature of switching to up when `\emph` appears in an italic context doesn't work here ...

`\strong{<text>}` again just calls an HTML element. It may behave like `\textbf{<text>}`, or ... I don't know ...

```

104 \newcommand*{\strong} {\SimpleTagSurr{strong}}

```

`\var{<symbol(s)>}` accesses the `<var>` element:

```

105 \newcommand*{\var}{\SimpleTagSurr{var}}

```

3.6 Environments

We reduce L^AT_EX's `\begin` and `\end` to their most primitive core.

`\begin{<command>}` just executes the macro `\<command>`, and

`\end{<command>}` just executes the macro `\end<command>`.

They don't constitute a group with local settings. Indeed, the present (2010/11/07) version of `blog.sty` does not allow any assignments while "copying" the T_EX source into the `.htm`. There even is no check for proper nesting. `\begin` and `\end` just represent HTML elements (their starting/ending tags) that typically have "long" content. (We might "intercept" `\begin` and `\end` before copying for executing some assignments in a future version.)

```
106 \let\begin\@nameuse
107 \def\end#1{\csname end#1\endcsname}

\center}—TODO cf. <center> 2010/07/18:
```

```
108 \renewenvironment*{center}{<p align="center">}{</p>}
```

... moving `{english}` to `xmlprint.cfg` 2010/05/22 ...

As formerly with “fonts,” we have *two* policies for **choosing macro names**: (i) using an *existing* HTML element name, (ii) using a L^AT_EX command name for accessing a somewhat similar HTML element having a *different* name.

`\declareHTMLelement{<el-name>}` creates a *new* `<el-name>` “environment” according to policy (i):

```
109 \newcommand*\declareHTMLelement}[1]{%
110     \newenvironment*{#1}{<#1>}{</#1>}}
```

`\renderHTMLelement{<ltx-env>}{<el-name>}` redefines L^AT_EX’s `<ltx-env>` environment to use HTML’s `<el-name>` element according to policy (ii):

```
111 \newcommand*\renderHTMLelement}[2]{%
112     \renewenvironment*{#1}{<#2>}{</#2>}}
```

Applying former auxiliaries:

`\small` is a L^AT_EX command from a *class*—that we won’t load, therefore we can create a *new* `{small}` environment using `<small>` according to policy (i):

```
113 \declareHTMLelement{small}
```

The next definitions for `{enumerate}`, `{itemize}`, `{verbatim}` follow policy (ii):

```
114 \renderHTMLelement{enumerate}{ol}
115 \renderHTMLelement{itemize}{ul}
```

With `blog.sty`, `{verbatim}` really doesn’t work much like its original L^AT_EX variant. T_EX macros inside still are expanded, and you must care yourself for wanted “quoting”:

```
116 \renderHTMLelement{verbatim}{pre} %% 2010/09/10
```

`{quote}` is defined in L^AT_EX classes only again. To use it for policy (ii), we give it a dummy definition so `\render...` won’t complain:

```
117 \let\quote\empty
118 \renderHTMLelement{quote}{blockquote}
```

For list `{item}`s, I tried to get readable HTML code using `\indenti`. This fails with nested lists. The indent could be increased for nested lists if we supported assignments with `\begin` and `\end`.

```
119 \renewcommand*\item{\indenti<li>}
```

← 2010/05/23, 2010/06/10 →

```
120 % \renewcommand*\item{<li>}
```

L^AT_EX's `\description` environment redefines the label format for the optional argument of `\item`. Again, *we* cannot do this here (we even cannot use optional arguments, at least not easily). Instead we define a different `\ditem{<term>}` having a *mandatory* argument.

```
121 \renderHTMLElement{description}{dl}
122 \newcommand*\ditem[1]{\indent<dt>\strong{#1}<dd>}
```

3.7 Links

3.7.1 Basic Link Macros

`\hanc{<id>}{<text>}` makes `<text>` an anchor with HTML label `<id>` (like `hyperref`'s `\hypertarget`):

```
123 \newcommand*\hanc[1]{\TagSurr a{\@name{#1}}}
```

`\hancref{<id>}{<url>}{<text>}` makes `<text>` an anchor with HTML label `<id>` and at the same time a link to `<url>`:

```
124 \newcommand*\hancref[2]{\TagSurr a{\@name{#1} \@href{#2}}}
```

`\href{<id>}{<text>}` makes `<text>` a link to `<url>`:

```
125 \newcommand*\href[1]{\TagSurr a{\@href{#1}}}
```

3.7.2 Special cases of Basic Link Macros

`\autanc{<text>}` creates an anchor where `<text>` is the text and the internal label at the same time:

```
126 \newcommand*\autanc[1]{\hanc{#1}{#1}}           %% 2010/07/04
```

`\ancref{<id>}{<text>}` makes `<text>` a link to an anchor `<id>` on the same web page. This is especially useful for a “table of contents”—a list of links to sections of the page.

```
127 \newcommand*\ancref[1]{\href{\##1}}
```

`\autref{<text>}` makes `<text>` a link to an anchor named `<text>` itself:

```
128 \newcommand*\autref[1]{\ancref{#1}{#1}}       %% 2010/07/04
```

3.7.3 Italic Variants

Some of the link macros get “emphasized” or “italic” variants. Originally I used “emphasized,” later I decided to replace it by “italic,” as I found that I had used italics for another reason than emphasizing. E.g., $\langle text \rangle$ may be ‘bug,’ and I am not referring to some bug, but to the Wikipedia article *Bug*. This has been inspired by some Wikipedia typography convention about referring to titles of books or movies. (The `em` \rightarrow `it` replacement has not been completed yet.)

```
129 % \newcommand*\emhref}[2]{\href{#1}{\emph{#2}}}
130 \newcommand*\ithref}[2]{\href{#1}{\textit{#2}}}
131 \newcommand*\itancref}[2]{\ancref{#1}{\textit{#2}}}% 2010/05/30
132 \newcommand*\emancref}[2]{\ancref{#1}{\emph{#2}}}
```

3.7.4 Built Macros for Links to Local Files

Originally, I wanted to refer to my web pages only, using

$$\boxed{\backslash\text{fileref}\{\langle\text{filename-base}\rangle\}}.$$

I have used extension `.htm` to avoid disturbing my Atari editor `xEDIT` or the Atari emulator (Hatari). The extension I actually use is stored as macro $\boxed{\backslash\text{htext}}$ in a more local file (e.g., `.cfg`).—Later I realized that I may want to refer to local files other than web pages, and therefore I introduced a more general $\backslash\text{FileRef}\{\langle\text{filename}\rangle\}$, overlooking that it was the same as $\boxed{\backslash\text{href}}$.

```
133 % \newcommand*\FileRef}[1]{\TagSurr a{\@href{#1}}}
134 \newcommand*\fileref}[1]{\href{#1}\htext}
135 % \newcommand*\emfileref}[2]{\fileref{#1}{\emph{#2}}}
136 \newcommand*\itfileref}[2]{\fileref{#1}{\textit{#2}}}
```

$\boxed{\backslash\text{fileancref}\{\langle\text{file}\rangle\}\{\langle\text{anchor}\rangle\}\{\langle\text{text}\rangle\}}$ links to anchor $\langle\text{anchor}\rangle$ on web page $\langle\text{file}\rangle$:

```
137 \newcommand*\fileancref}[2]{%
138   \TagSurr a{\@href{#1}\htext\##2}}
139 % \newcommand*\emfileancref}[3]{\fileancref{#1}{#2}{\emph{#3}}}
```

← 2010/05/31 →

```
140 \newcommand*\itfileancref}[3]{\fileancref{#1}{#2}{\textit{#3}}}
```

3.7.5 Built Macros for Links to Remote Files

`blog.sty` currently (even 2011/01/24) implements my style *not* to open a new browser window or tab for *local* files but to open a new one for *remote* files, i.e., when a file is addressed by a full URL. For the latter case, there is

$$\boxed{\backslash\text{httpref}\{\langle\text{host-path}\langle\text{\#frag}\rangle\}\{\langle\text{text}\rangle\}}$$

making $\langle\text{text}\rangle$ a link to `http://\langle\text{host-path}\langle\text{\#frag}\rangle\}`:


```

141 % \newcommand*{\httpref}[1]{\href{http://#1}}
142 \newcommand*{\httpref}[1]{%           %% 2010/04/11
143   \TagSurr a{\@href{http://#1" target="_blank}}}}

```

With v0.4, macros based on `\httpref` are moved to `texlinks.sty`:

```

144 \RequirePackage[blog]{texlinks}[2011/02/10]

```

Former `\urlref` appears as `\urlhttpref` there ...

```

145 \newcommand \urlref {}           \let\urlref\urlhttpref

```

... and `\ctanref` has been replaced by `\tugctanref`. Let's go on playing with the difference ...

```

146 \newcommand*{\ctanref}[1]{\httpref{ctan.org/tex-archive/#1}}

```

`texlinks` sometimes uses a “permanent alias” `\NormalHTTPref` of `\httpref`:

```

147 \@ifdefinable \NormalHTTPref {\let\NormalHTTPref\httpref}

```

`\httpsref` is the analogue of `\httpref` for `https://`:

```

148 \newcommand*{\httpsref}[1]{%           %% 2011/06/27
149   \TagSurr a{\@href{https://#1" target="_blank}}}}

```

3.8 Symbols

3.8.1 Basic Preliminaries

`&` is made `other` for using it to call HTML's “character entities.”

```

150 \@makeother\&

```

Again we have the two policies about choosing macro names and respectively two new definition commands. `\declareHTMLsymbol{<name>}` defines a macro `\<name>` expanding to `&<name>`; . Checking for prior definedness hasn't been implemented yet. (TODO; but sometimes redefining ...)

```

151 \newcommand*{\declareHTMLsymbol}[1]{\@namedef{#1}{&#1;}}

```

`\renderHTMLsymbol{<macro>}{<name>}` redefines macro `<macro>` to expand to `&<name>`;;

```

152 \newcommand*{\renderHTMLsymbol} [2]{\renewcommand*{#1}{&#2;}}

```

Redefinitions of `\&` and `\%` (well, `\PercentChar` is `fifinddo`'s version of L^AT_EX's `\@percentchar`):

```

153 \renderHTMLsymbol{\&}{amp}
154 \let\%\PercentChar

```

3.8.2 Diacritics

For the difference between “diacritic” and “accent,” see Wikipedia.

`\ccedil`:

```
155 \declareHTMLsymbol{ccedil}
```

HTML entities `é`, `ô` etc. can be accessed by T_EX’s accent commands `\’`, `\^`, `\’`, `\”`:

```
156 % \declareHTMLsymbol{eacute}
157 % \declareHTMLsymbol{ocirc}
158 \renewcommand*{\’}[1]{&#1acute;}
159 \renewcommand*{\^}[1]{&#1circ;}
160 \renewcommand*{\’}[1]{&#1grave;}
161 \renewcommand*{\”}[1]{&#1uml;}

```

`\uml{<char>}` may have been overestimated:

```
162 % \newcommand*      {\uml}[1]  {&#1uml;}      % 2010/08/24

```

3.8.3 Greek

```
163 \declareHTMLsymbol{Alpha}
164 \declareHTMLsymbol{alpha}
165 \declareHTMLsymbol{Beta}
166 \declareHTMLsymbol{beta}
167 \declareHTMLsymbol{Gamma}
168 \declareHTMLsymbol{gamma}
169 \declareHTMLsymbol{Delta}
170 \declareHTMLsymbol{delta}
171 \declareHTMLsymbol{Epsilon}
172 \declareHTMLsymbol{epsilon}
173 \declareHTMLsymbol{Zeta}
174 \declareHTMLsymbol{zeta}
175 \declareHTMLsymbol{Eta}
176 \declareHTMLsymbol{eta}
177 \declareHTMLsymbol{Theta}
178 \declareHTMLsymbol{theta}
179 \declareHTMLsymbol{Iota}
180 \declareHTMLsymbol{iota}
181 \declareHTMLsymbol{Kappa}
182 \declareHTMLsymbol{kappa}
183 \declareHTMLsymbol{Lambda}
184 \declareHTMLsymbol{lambda}
185 \declareHTMLsymbol{My}
186 \declareHTMLsymbol{my}
187 \declareHTMLsymbol{Ny}
188 \declareHTMLsymbol{ny}
189 \declareHTMLsymbol{Xi}
190 \declareHTMLsymbol{xi}

```

```

191 \declareHTMLsymbol{Omikron}
192 \declareHTMLsymbol{omikron}
193 \declareHTMLsymbol{Pi}
194 \declareHTMLsymbol{pi}
195 \declareHTMLsymbol{Rho}
196 \declareHTMLsymbol{rho}
197 \declareHTMLsymbol{Sigma}
198 \declareHTMLsymbol{sigma}
199 \declareHTMLsymbol{sigmaf}
200 \declareHTMLsymbol{Tau}
201 \declareHTMLsymbol{tau}
202 \declareHTMLsymbol{Upsilon}
203 \declareHTMLsymbol{upsilon}
204 \declareHTMLsymbol{Phi}
205 \declareHTMLsymbol{phi}
206 \declareHTMLsymbol{Chi}
207 \declareHTMLsymbol{chi}
208 \declareHTMLsymbol{Psi}
209 \declareHTMLsymbol{psi}
210 \declareHTMLsymbol{Omega}           %% render -> declare 2011/02/26
211 \declareHTMLsymbol{omega}
212 \declareHTMLsymbol{thetasym}
213 \declareHTMLsymbol{upsih}
214 \declareHTMLsymbol{piv}

```

3.8.4 Arrows

Arrows: `\gets`, `\to`, `\uparrow`, `\downarrow` ...

```

215 \renderHTMLsymbol {\gets}      {larr}
216 \renderHTMLsymbol {\to}        {rarr}
217 \renderHTMLsymbol {\uparrow}    {uarr}   %% 2010/09/15
218 \renderHTMLsymbol {\downarrow}{darr}   %% 2010/09/15

```

3.8.5 Dashes

The ligatures -- and --- for en dash and em dash don't work in our expanding mode. Now, HTML's policy for choosing names often prefers shorter names than are recommended for (La)TeX, so here I adopt a *third* police besides (i) and (ii) earlier; cf. L^AT_EX's `\textendash` and `\textemdash`.—`\newcommand` does not accept macros whose names start with `end`, so: `\endash`, `\emdash` ...

```

219 \def          \endash  {\&dash;}           %% \end... illegal
220 \newcommand*{\emdash} {\&mdash;}

```

3.8.6 Spaces

“Math” (not only!) spaces `\,`, `\enspace`, `\quad`, `\qquad`:

```

221 \renderHTMLsymbol{\enspace}{ensp}

```

```

222 \renderHTMLsymbol{\quad} {emsp}
223 \renewcommand* {\qqquad} {\quad\quad}

```

2011/07/22: ` ` allows line breaks, so we introduce `\thinsp` to access ` `, while `\thinspace` and `\,` use Unicode "Narrow No-Break Space" (U+202F, see *Wikipedia Space (punctuation)*; browser support?):

```

224 % \renderHTMLsymbol{\thinspace}{thinsp}
225 % \renderHTMLsymbol{\,} {thinsp}
226 \declareHTMLsymbol{thinsp}
227 \renderHTMLsymbol{\thinspace}{\#8239}
228 \renderHTMLsymbol{\,} {\#8239}

```

3.8.7 Quotes, Apostrophe, Prime

`\lq`, `\rq`

```

229 \renderHTMLsymbol{\lq} {lsquo}
230 % \newcommand* {\rsquo} {\rsquo;} %% removed 2010/04/26
231 \renderHTMLsymbol{\rq} {rsquo}

```

In order to use the right single quote for the HTML apostrophe, we must save other uses before. `\screentqd{text}` is used for screen messages, and `\urlapostr` is the version of the right single quote for URLs of Wikipedia articles:

```

232 \newcommand*\screentqd[1]{‘#1’}
233 \newcommand*\urlapostr {’} %% 2010/09/10

```

Here finally is the change of `’`:

```

234 \MakeActiveDef\’{\&rsquo;}

```

... **TODO** `\MakeActiveLet\’\rq!` And this might better be in `\BlogCodes!` would save `\screentqd!` Tilde likewise!? ... **TODO** change `\catcode\’!` 2010/04/26

`\ldquo`, `\rdquo`, `\sbquo`, `\prime`, `\Prime` ...

```

235 \declareHTMLsymbol{ldquo}
236 \declareHTMLsymbol{rdquo}
237 \declareHTMLsymbol{sbquo} %% 2010/07/01
238 \renewcommand*\prime{\&prime;}
239 \declareHTMLsymbol{Prime}
240 % \newcommand*\Prime{\&Prime;}

```

`\endqtd{text}` quotes in the English style using double quote marks, `\enqtd{text}` uses single quote marks instead, and `\dedqtd{text}` quotes in German style:

```

241 \def\endqtd#1{\ldquo#1\rdquo} %% \newcommand: "\end"
242 \newcommand*\enqtd[1]{\lq#1\rq} %% 2010/09/08, \new... 2010/11/08
243 \newcommand*\dedqtd[1]{\&bdquo;#1\ldquo}
244 \newcommand*\deqtd[1]{\&sbquo;#1\lsquo;} %% corr. 2011/05/14

```

... **TODO** `\bdquo!`?

3.8.8 Math

Because `<` and `>` are used for HTML’s element notation, we provide aliases `\gt`, `\lt` for mathematical `<` and `>`:

```
245 \declareHTMLsymbol{gt}
246 \declareHTMLsymbol{lt}
```

`\ge`, `\le`, and `\ne` for \geq , \leq , and \neq resp.:

```
247 \declareHTMLsymbol{ge}
248 \declareHTMLsymbol{le}
249 \declareHTMLsymbol{ne}
```

We also provide their T_EX aliases `\geq`, `\leq`, `\neq`:

```
250 \let\geq\ge
251 \let\leq\le
252 \let\neq\ne
```

Angle braces `\langle` and `\rangle`:

```
253 \renderHTMLsymbol{\langle}{lang}
254 \renderHTMLsymbol{\rangle}{rang}
```

The one-argument macro `\angled{<angled>}` allows better readable code (should be in a more general package):

```
255 \newcommand*{\angled}[1]{\langle#1\rangle}
```

Curly braces `\{` and `\}` ...:

```
256 \begingroup
257   \Delimiters\[\] \gdef\{\{ \gdef\}\}
258 \endgroup
```

T_EX’s `\ast` corresponds to the “lower” version of the asterisk:

```
259 \renderHTMLsymbol{\ast}{lowast}           %% 2011/03/29
```

Besides T_EX’s `\subset` and `\subseteq`, we provide short versions `\sub` and `\sube` inspired by HTML:

```
260 \declareHTMLsymbol{sub}                   %% 2011/04/04
261 \let\subset\sub                           %% 2011/05/08
262 \declareHTMLsymbol{sube}                 %% 2011/03/29
263 \let\subseteq\sube                       %% 2011/05/08
```

T_EX and HTML agree on `\cap`, `\cup`, and `\times`:

```
264 \declareHTMLsymbol{cap}                   %% 2011/04/04
265 \declareHTMLsymbol{cup}                   %% 2011/04/04
266 \declareHTMLsymbol{times}                 %% 2011/04/04
```

We stick to T_EX’s `\emptyset`

```
267 \renderHTMLsymbol{\emptyset}{empty}           %% 2011/04/14
```

We need `\minus` since math mode switching is not supported by `blog`:

```
268 \declareHTMLsymbol{minus}                     %% 2011/03/31
```

We override HTML's `ˆ` to get \TeX 's `\circ` (i.e., `o`; **but I cannot see it on my own pages!?**):

```
269 \renderHTMLsymbol{\circ}{\#x2218}            %% 2011/04/28
```

```
270 \renderHTMLsymbol{\cdot}{middot}            %% 2011/05/07
```

`\sdot` generates `&sdot`, a variant of `·`; reserved for the dot product according to the :

```
271 \declareHTMLsymbol{sdot}                     %% 2011/05/08
```

3.8.9 Other

The tilde `\~` is used for its wonderful purpose, by analogy to \TeX :

```
272 \renderHTMLsymbol{\~}{nbsp}
```

But now we need a replacement `\tilde` for URLs involving home directories of institution members (should better be `\tildechar` or `\TildeChar`, cf. `fifinddo`):

```
273 {\@makeother\~ \gdef\tilde{\~} \gdef\tildechar{\~}}
```

Horizontal ellipsis: `\dots` ...

```
274 \renderHTMLsymbol {\dots} {hellip}
```

`\copyright`:

```
275 \renderHTMLsymbol{\copyright}{copy}
```

`\bullet`

```
276 \renderHTMLsymbol{\bullet}{bull}
```

`\euro`:

```
277 \declareHTMLsymbol{euro}
```

\TeX 's `\S` prints the “section sign” ‘§’. In HTML, the latter accessed by `§`, we “redirect” `\S` to this:

```
278 \renderHTMLsymbol{\S}{sect}
```

3.9 \TeX -related

Somebody actually using `blog.sty` must have a need to put down notes about \TeX for her own private purposes at least—I expect.

3.9.1 Logos

“Program” names might be typeset in a special font, I once thought, and started tagging program names with `\prg`. It could be `\texttt` or `\textsf` like in documentations of L^AT_EX packages. However, sans-serif is of doubtful usefulness on web pages, and typewriter imitations usually look terrible on web pages. So I am waiting for a better idea and let `\prg` just remove the braces.

```

279 \newcommand*\prg}[1]{} \let\prg\@firstofone
280 \newcommand*\BibTeX{\prg{BibTeX}} %% 2010/09/13
281 \renewcommand*\TeX{\prg{TeX}}
282 \renewcommand*\LaTeX{\prg{LaTeX}}
283 \newcommand*\allTeX{\prg{(La)TeX}}%% 2010/10/05
284 \newcommand*\LuaTeX{\prg{LuaTeX}}
285 \newcommand*\pdfTeX{\prg{pdfTeX}}
286 \newcommand*\XeTeX{\prg{XeTeX}} %% 2010/10/09
287 \newcommand*\TeXbook{\TeXbook} %% 2010/09/13

```

3.9.2 Else

With v0.4, T_EX-related *links* are moved to `texlinks.sty`.

`\texcs{\langle tex-cmd-name \rangle}` or `\texcs\langle tex-cmd-name \rangle` (care for spacing yourself):

```

288 \newcommand*\texcs}[1]{\code{\string#1}} %% 2010/11/13

```

Good old `\cs{\langle tex-cmd-name \rangle}` may be preferable:

```

289 \def\cs#1{\code{\BackslashChar#1}} %% 2011/03/06

```

3.10 Tables

3.10.1 Indenting

There are three levels of indenting:

`\indenti`, `\indentii`, and `\indentiii`.

The intention for these was to get readable HTML code. Not sure ...

```

290 {\catcode'\ =12%% 2010/05/19
291 \gdef\indenti{ } \gdef\indentii{ } \gdef\indentiii{ }

```

3.10.2 Starting/Ending Tables

2010/07/17:

```

292 \newcommand*\startTable}[1]{<table #1>}
293 \def\endTable{</table>}
294 \newcommand*\@frame@box{\@frame{box}}
295 \newcommand*\@frame@groups{\@frame{groups}}
296 \newenvironment{allrulestable}[2]

```

```

297   {\startTable{\@cellpadding{#1} \@width{#2}
298               \@frame@box rules="all"}\CLBrk
299   \indent<tbody>}
300   {\indent</tbody>\CLBrk\endTable}

```

3.10.3 Rows

I first thought it would be good for readability if some HTML comments explain nesting or briefly describe the content of some column, row, or cell. But this is troublesome when you want to comment out an entire table ...

```

301 \newenvironment*{TableRow}[2]{%% lesser indentation 2011/04/25
302   \ \comment{ #1 }\CLBrk
303   \indent<tr #2>%
304   }{%
305   \indent</tr>}
306 \newenvironment{tablecoloredrow}[2]
307   {\TableRow{#1}{\@bgcolor{#2}}}
308   {\endTableRow}

```

”top” 2010/05/18:

```

309 \newenvironment{tablerow}[1]{\TableRow{#1}{\@valign@t}}
310   {\endTableRow}

```

2010/07/18:

```

311 \newcommand*\starttr{<tr>}
312 \def\endtr{</tr>}

```

3.10.4 Cells

```

313 \newcommand*\simplecell{\SimpleTagSurr{td}} %% 2010/07/18
314 % \newcommand*\TableCell}[2]{\indentiii<td #1>#2</td>}
315 % \newcommand*\TableCell}[2]{\indentiii\TagSurr{td}{#1}{#2}}
316 %% <- 2010/07/18 ->
317 \newcommand*\TableCell}[2]{\indentiii\startTd{#1}#2\endTd}

```

2010/06/15:

```

318 \newcommand*\colorwidthcell}[2]{\TableCell{\@bgcolor{#1}\@width{#2}}}
319 \newcommand*\tablewidthcell}[1]{\TableCell{\@width{#1}}}
320 \newcommand*\tablecell      {\TableCell{}}
321 \newcommand*\tablecell      {\TableCell{@align@c}}

```

Idea: use closing star for environment variants!?

```

322 % %% 2010/05/19:
323 \newenvironment{bigtablecell}[1]{\BigTableCell{#1}{}}
324   {\endBigTableCell}
325 %           {\ifx\#1\%           %% 2010/05/30
326 %           \indentii\ \comment{#1}\CLBrk

```



```

327 %           \fi
328 %           \indentiii<td>}
329 %           {\indentii</td>}           %% !? 2010/05/23

```

2010/06/05:

```

330 \newenvironment{BigTableCell}[2]
331   {\ifx\#1\\\indentii\ \comment{#1}\CLBrk\fi
332   \indentiii\startTd{#2}}
333   {\indentii\endTd}           %% TODO indent? 2010/07/18

```

2010/07/18:

```

334 \newcommand*\startTd[1]{<td #1>}
335 \def\endTd{</td>}

```

3.10.5 Filling a Row with Dummy Cells

Generalization 2010/06/28:

```

336 % \newcommand*\FillRow[2]{%           %% broke line 2011/01/24
337 %           \indentiii\TagSurr{td}{@colspan{#1} #2}{}}
338 %% <- 2010/07/18 ->
339 \newcommand*\FillRow[2]{\indentiii\startTd{@colspan{#1} #2}\endTd}
340 \newcommand*\fillrow[1]{\FillRow{#1}{}}
341 \newcommand*\fillrowcolor[2]{\FillRow{#1}{@bgcolor{#2}}}

```

3.11 Misc

`\comment{<comment>}` produces a one-line HTML comment. By contrast, there is an environment `{\commentlines}{<comment>}` for multi-line comments. It is convenient for “commenting out” code (unless the latter contains other HTML comments ...) where `<comment>` is a *comment* for explaining what is commented out.

```

342 \newcommand*\comment[1]{<!--#1-->}
343 % \newcommand*\commentlines[1]{\comment{^^J#1^^J}} %% 2010/05/07
344 % %% <- TODO bzw. \endlinechar='^^J 2010/05/09 back 2010/05/10
345 \newenvironment{commentlines}[1]           %% 2010/05/17
346   {<!--#1}
347   {-->}

```

\TeX 's `\hrule` (rather deprecated in \LaTeX) is redefined to produce an HTML horizontal line:

```

348 \renewcommand*\hrule{<hr>}

```

Redefining `\□` to be the same as `\space` may be helpful for manual indenting or spacing of HTML code. Or better (just now remembering): I used it for making “ASCII trees” with the `<pre>` element (redefined `verbatim`).

```

349 \let\ \space

```

I couldn't find a perfect way to generate `<p>`. Actually I started completing the present documentation when I had decided to implement automatic generation of `<p>` from empty lines.

```
350 % \def\par{<p>} %% + empty lines !? 2010/04/26
```

← difficult with `\stop`; 2010/09/10: `\endgraf` produces `</p>!`?

```
351 \renewcommand*\endgraf{</p>}
```

2010/04/28: `
` can be generated either by `\newline` or by `\`:

```
352 \renewcommand*\newline{<br>}
```

```
353 \let\\newline
```

`\rightpar{<text>}` places `<text>` flush right. I have used this for 'Last revised ...' and for placing navigation marks.

```
354 \newcommand*\rightpar{\TagSurr p@align@r} %% 2010/06/17
```

Often I use `\rightpar` with *italics*, now there is `\rightitpar{<text>}` for this purpose:

```
355 \newcommand*\rightitpar[1]{\rightpar{\textit{#1}}}
```

For references, there were

```
356 % \catcode'\^=\active
```

```
357 % \def^#1{\SimpleTagSurr{sup}{#1}}
```

and

```
358 % \newcommand*\src[1]{\SimpleTagSurr{sup}{#1}}
```

as of 2010/05/01, inspired by the `<ref>` element of MediaWiki; moved to `xmlprint.tex` 2010/06/02.

3.12 The End

```
359 \endinput
```

3.13 VERSION HISTORY

```
360 v0.1    2010/08/20  final version for DFG
361 v0.2    2010/11/08  final documentation version before
362                    moving some functionality to 'fifinddo'
363 v0.3    2010/11/10  removed ^^J from \head
364                    2010/11/11  moving stuff to fifinddo.sty; \BlogCopyFile
365                    2010/11/12  date updated; broke too long code lines etc.;
366                    \CatCode replaced (implemented in niceverb only);
367                    \ifBlogAutoPars etc.
368                    2010/11/13  doc: \uml useful in ...; \texcs
369                    2010/11/14  doc: argument for {commentlines},
```

```

370             referring to environments with curly braces,
371             more on \ditem
372     2010/11/15  TODO: usage, templates
373     2010/11/16  note on {verbatim}
374     2010/11/23  doc. corr. on \CtanPkgRef
375     2010/11/27  "keyword"; \CopyLine without 'fd'
376     2010/12/03  \emhttpref -> \ithttpref
377     2010/12/23  '%' added to \texhaxpref
378     2011/01/23  more in \Provides...
379     2011/01/24  updated copyright; resolving 'td' ("today")
380     JUST STORED as final version before texlinks.sty
381     v0.4       2011/01/24  moving links to texlinks.sty
382     v0.41     2011/02/07  \NormalHTTPref
383     2011/02/10  refined call of 'texlinks'
384     PART OF CTAN RELEASE r0.3
385     v0.5     2011/02/22  \BlogProvidesFile
386     2011/02/24  ... in \BlogCopyFile
387     2011/02/25  ordering symbols
388     2011/02/26  subsection Greek; note on \declareHTMLsymbol
389     2011/03/04  diacritics
390     2011/03/06  \cs
391     2011/03/09  \var
392     2011/03/16  \robots
393     2011/03/19  doc. \fileancref arg.s corr.
394     2011/03/29  \Sigma, ...
395     2011/03/31  \minus
396     2011/04/04  \times, \sub, \delta
397     2011/04/11  Greek completed
398     2011/04/14  \emptyset
399     2011/04/22  \deqtd
400     2011/04/24  doc.: folding, \stylesheet, ordered "tables";
401     @border, @align, @valign
402     2011/04/25  lesser indentation with TableRow
403     2011/04/26  \, , \thinspace, \@title; doc. \@name
404     2011/04/28  [\circ] PROBLEM still
405     2011/04/29  \rightitpar
406     2011/05/07  \cdot
407     2011/05/08  extended doc. on math symbols; \sdot;
408     \ast replaces \lowast; \subset, \subsetq;
409     \angled
410     2011/05/09  \euro
411     2011/05/11  |\geq| etc.; new section "logical markup"
412     2011/05/12  corr. doc. \heading
413     2011/05/14  right mark of \deqtd was rsquo instead of lsquo!
414     2011/05/18  \S and note on \StoreOtherCharAs
415     2011/06/27  \httpsref; doc: \acro
416     2011/07/22  \thinspace vs. \thinsp; 'fifinddo''s
417     2011/07/25  "todo" on \description
418     2011/08/18f. removing \FileRef, 0.42-> 0.5
419     2011/08/31  clarified use of \urlapostr

```

