

blog.sty

Generating HTML Quickly with T_EX*

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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.—`lnavicol.sty` adds a more **professional** look (towards CMS?), and `blogdot.sty` uses `blog.sty` for HTML **beamer** presentations.

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*This document describes version [v0.7](#) of `blog.sty` as of 2012/05/13.

[†]<http://contact-ednotes.sty.de.vu>

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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:

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

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

(`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` (or `texblog.fdf` may be together with the `.sty` files), perhaps you can use them as templates.

2.1.1 Driver File `makehtml.tex`

```

1  \ProvidesFile{makehtml.tex}[2012/05/12 HTML driver]
   \RequirePackage{blog}[2011/11/20] \BlogInterceptEnvironments*
   \RequirePackage{texlinks}
   \input{atari_ht.fdf}                %% 2012/05/12
5  \input{texblog.fdf}
   %%%%%%%%%%%
   \input{jobname}                     %% write with "echo"
   % \def \htmljob
   %%%%%%%%%%%
10 % {texmap}
   % {heyctan}
   % {makeshow}
   % {texhax}
   % {aaoe1550}
15 % {jobs}                            %%% \BlogAutoPars
   %%%%%%%%%%%

```

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

```

% {beobacht} \uselangcode{de}          %% \uselangcode 2012/01/07
% {gtd}      \uselangcode{de}
% {STEUER}   \uselangcode{de}
20 % {GALLEY}  \uselangcode{de}
    %%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
    \ResultFile{\htmljob\htmakeext}
    \BlogProcessFinalFile[%
        \TextCodes
25        \MakeActiveDef"\{\catchdq}%% TODO \MakeActiveLet?
            ]{\htmljob.tex}
\stop

```

2.1.2 Source File texmap.tex

```

1 \ProvidesFile{texmap.tex}[2012/05/13 TeX-generated: overview]
  \comment{ 2012/04/02 "beobacht" geteilt }
  \comment{ 2011/01/25 \string\endash\ -> \string\pardash\ }
  \comment{ 2010/12/05 \string\emdash\ -> \string\endash\ }
5 \head \charset{ISO-8859-1} %% {utf-8}
    \texrobots
    \texstylesheet
    \title{TeX-generated pages - U. L.}
\darkbody                                     %% 2012/05/08
10 \texttopofpage
\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
20 \item \Fileref{aaoe1550}\pardash UMTS stick with Linux netbook
    \item \Fileref{heyctan}\pardash CTAN discoveries
    \item \Fileref{finfinfo}\pardash \LaTeX\ file info packages
    \item \Fileref{jobs}\pardash coaching %% explained 2010/09/24
    \item \Fileref{makeshow}\pardash \TeX\ almost WYSIWYG \dots
25 \item \Fileref{texhax}\pardash studies on texhax postings
\hrule
    %% Teilung 2012/02/04:
    \item \Fileref{beobacht}\endash\ \dedqtd{Web-Tagebuch}\~aktuell
    %% <- oeffentliche Version 2011/12/14
30 \item \Fileref{beob2011}\endash\ \dedqtd{Web-Tagebuch}\~2011
    \item \Fileref{gtd}\endash\ \dedqtd{Getting Things Done}
    %% rm. MV45 2011/10/31

```

```

        \item \Fileref{oeffnotz}~\endash\ \dedqtd{öffentliche Notizen} %% 2011/08/16b
        \item \Fileref{taeglich}~\endash\ persönliche Links
35 \end{enumerate}

        \hrule
        \enlastrev
        \entotopofpage
40 %% rm. space 2011/12/14
        \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. Its code is presented in Sec. 4. 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 {2012/03/14}      %%% {2011/11/01}
   \ProvidesFile{makehtml.tex}
      [\GenDate\space TeX engine for "writings"]
   %% reworked 2012/03/13:
5 \RequirePackage{blog}[2011/11/20] \BlogInterceptEnvironments*
   \RequirePackage{texlinks,lnavicol}
   \input{atari.fdf} \input{writings.fdf}
   \NoBlogLigs      % 2012/03/14 TODO remove HTML comments
   %%%%%%%%%%%%%%%
10 \input{jobname}

```

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

```

% \def \htmljob
% {_sitemap}
% {index} \BlogAutoPars
% {schreibt} \uselangcode{de} \BlogAutoPars %% mod. 2012/02/04
15 %%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
% {about} \BlogAutoPars
% {contact} % \tighttrue
% {kontakt} \uselangcode{de} % \tighttrue
% {tutor} \uselangcode{de} \BlogAutoPars \deepttrue
20 %%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
% {writings} \BlogAutoPars \deepttrue
% {repres} \BlogAutoPars \deepttrue
% {critedl} \BlogAutoPars \deepttrue
% {ednworks} \BlogAutoPars
25 % {public} \BlogAutoPars \deepttrue
% {texproj} \BlogAutoPars % \deepttrue
%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%

\ResultFile{\htmljob\htmakeext}
30 \WriteResult\writdoctype %% TODO
% \BlogCopyFile[\TextCodes %% \BlogIntercept:
\BlogProcessFile[\TextCodes %% 2012/03/13
\MakeActiveDef\{"\catchdq}% %% TODO attributes!?
]\{\htmljob.tex}
35 \WriteResult{\PAGEFOOT}
\WriteResult{\indentii\rainermaster}
\WriteResult{\indentii\}
\WriteResult{\indentii\ueberseeport} %% TODO BlogLigs!?
\WriteResult{\PAGEEND}
40 \ifdeep \WriteResult{\indentii\vspace{280}} \fi
\WriteResult{\finish}
\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 Presentation zweier ETC.

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

```

3 The File blog.sty

3.1 Package File Header (Legalize)

```

1 \ProvidesPackage{blog}[2012/05/13 v0.7 simple fast HTML (UL)]
2 %% copyright (C) 2010 2011 2012 Uwe Lueck,
3 %% http://www.contact-ednotes.sty.de.vu
4 %% -- author-maintained in the sense of LPPL below.
5 %%
6 %% This file can be redistributed and/or modified under
7 %% the terms of the LaTeX Project Public License; either
8 %% version 1.3c of the License, or any later version.
9 %% The latest version of this license is in
10 %% http://www.latex-project.org/lppl.txt
11 %% We did our best to help you, but there is NO WARRANTY.
12 %%
13 %% Please report bugs, problems, and suggestions via
14 %%
15 %% http://www.contact-ednotes.sty.de.vu
16 %%
17 %% == Processing ==

```

3.1.1 Requirement

We are building on the `fifinddo` package (using `\protected@edef` for Sec. 3.1.7):

```

18 \RequirePackage{fifinddo}[2011/11/21]

```


3.1.2 Output File Names

`\htmakeext` is the extension of the generated file. Typically it should be `.html`, as set here, but my Atari emulator needs `.htm` (see `texblog.fdf`):

```
19 \newcommand*\htmakeext{.html}
```

3.1.3 General Insertions

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

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

`_` is turned into an alias for `\space`, so it inserts a blank space. It even works at line ends, thanks to the choice of `\endlinechar` in Sec. 3.1.4.

```
21 \let\_ \space
```

`\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):

```
22 \@ifdefinable\BlogProvidesFile{%
23   \def\BlogProvidesFile#1[#2]{%
24     \comment{ generated from\CLBrk\CLBrk
25               \ \ \ \ \ \ \ \ #1, #2,\CLBrk\CLBrk
26               \ \ \ \ \ with blog.sty,
27               \isotoday\ }}}
28 \edef\isotoday{% texblog 2011/11/02, here 2011/11/20
29   \the\year-\two@digits{\the\month}-\two@digits{\the\day}}
```

(**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 `\BlogProcessFile`.

3.1.4 Category Codes etc.

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

```
30 \newcommand*\BlogCodes{% %% 2010/09/07
31   \endlinechar'\ %
```

← Comment character to get space rather than `^^M`!—The tilde `~` is active as in Plain TeX too, it is so natural to use it for abbreviating HTML’s ` `!

```

32 % \catcode'\~\active
33 \MakeActiveDef\~{\&nbsp;}%% for \FDpseudoTilde 2012/01/07
    '' for HTML convenience (cf. Sec. 3.8.7):
34 \MakeActiveDef\'{\&rsquo;}%% %% here 2011/11/08
35 \BasicNormalCatCodes}
36 % \MakeOther\< \MakeOther\> %% rm. 2011/11/20

```

3.1.5 The Processing Loop

`\BlogProcessFile[<changes>]{<source-file>}`

“copies” the T_EX source file *<source-file>* into the file specified by `\ResultFile`.

```

37 \newcommand*\BlogProcessFile}[2][]{% %% 2011/11/05
38 \ProcessFileWith[\BlogCodes
39 \let\ProvidesFile\BlogProvidesFile %% 2011/02/24
40 \let\protect\@empty %% 2011/03/24
41 \let\@typeset@protect\@empty %% 2012/03/17
42 #1]{#2}{%
43 \IfFDinputEmpty
44 {\IfFDpreviousInputEmpty
45 \relax
46 {\WriteResult{\ifBlogAutoPars<p>\fi}}}%
47 \BlogProcessLine %% 2011/11/05
48 }%
49 }

```

fifinddo v0.5 allows the following

`\BlogProcessFinalFile[<changes>]{<source-file>}`

working just like `\BlogProcessFile` except that the final `\CloseResultFile` is issued automatically, no more need having it in the driver file.

```

50 \newcommand*\BlogProcessFinalFile{%
51 \FinalInputFiletrue\BlogProcessFile}

```

TODO: optionally include .css code with `<style>`.

3.1.6 Executing Source File Code Optionally

For v0.7, `\BlogCopyFile` is renamed `\BlogProcessFile`; and in its code, `\CopyLine` is replaced by `\BlogProcessLine`. The purpose of this is supporting `blogexec.sty` that allows intercepting certain commands in the line. We provide initial versions of `blogexec`’s switching commands that allow invoking `blogexec` “on the fly”:

```

52 \newcommand*\ProvideBlogExec{\RequirePackage{blogexec}}

```

`dowith.sty` is used in the present package to reduce package code and documentation space:

```

53 \RequirePackage{dowith}
54 \setdo{\providecommand*#1{\ProvideBlogExec#1}}
55 \DoDoWithAllOf{\BlogInterceptExecute \BlogInterceptEnvironments
56               \BlogInterceptExtra   \BlogInterceptHash       }

```

`\BlogCopyLines` switches to the “copy only” (“compressing” empty lines) functionality of the original `\BlogCopyFile`:

```

57 \newcommand*{\BlogCopyLines}{%
58   % \let\BlogProcessLine\CopyLine}
59   \def\BlogProcessLine{%           %% 2011/11/21, corr. 2012/03/14:
60     \WriteResult{\ProcessInputWith\BlogOutputJob}}

```

← This is a preliminary support for “ligatures”—see Sec. 3.1.7. `\NoBlogLigs` sets the default to mere copying:

```

61 \newcommand*{\NoBlogLigs}{\def\BlogOutputJob{LEAVE}}
62 \NoBlogLigs

```

TODO more from `texblog.fdf` here, problems with `writings.fdf`, see its `makehtml.tex`

`\BlogCopyLines` will be the setting with pure `blog.sty`:

```

63 \BlogCopyLines

```

OK, let’s not remove `\BlogCopyFile` altogether, rebirth:

```

64 \newcommand*{\BlogCopyFile}{\BlogCopyLines\BlogProcessFile}

```

3.1.7 “Ligatures”

With v0.7, we introduce a preliminary method to use the “ligatures” -- and --- with pure expansion. At this occasion, we also can support the notation ... for `\dots`, as well as arrows (as in `mdoccorr.cfg`). Note that this is somewhat **dangerous**, especially the source must not contain “explicit” HTML comment, comments must use `blog.sty`’s `\comment` or the `{commentlines}` environment. Therefore these “ligatures” must be activated explicitly by `\UseBlogLigs`:

```

65 \newcommand*{\UseBlogLigs}{\def\BlogOutputJob{BlogLIGs}}

```

In order to work inside braces, the source file better should be preprocessed in “plain text mode.” (**TODO**: Use `\ifBlogLigs`, and in a group use `\ResultFile` for an intermediate `\htmljob.lig`. And **TODO**: Use `\let\BlogOutputJob`.) On the other hand, the present approach allows switching while processing with `\EXECUTE!` Also, intercepted commands could apply the replacements on their arguments—using `\ParseLigs{⟨arg⟩}`:

```

66 \newcommand*{\ParseLigs}[1]{\ProcessStringWith{#1}{BlogLIGs}}

```

(`\ProcessStringWith` is from `fifinddo`.)

The replacement chain follows ([TODO](#) move to `.cfg`). As opposed to `mdoccorr.cfg` for `makedoc.sty`, we are dealing with “normal \TeX ” code (regarding category codes, `fifinddo.sty` as of 2011/11/21 is needed for `\protect`). Moreover, space tokens after patterns are already there and need not be inserted after control sequences.

```
67 \FDpseudoTilde
68 \StartPrependingChain
69 \PrependExpandableAllReplacer{blog...}{...}{\protect\dots}
70 \PrependExpandableAllReplacer{blog--}{--}{\protect\endash}
71 \PrependExpandableAllReplacer{blog---}{---}{\protect\emdash}
```

← Cf. thin surrounding spaces with `\enpardash` (`texblog`, maybe *hair space* U+200A instead of thin space), difficult at code line beginnings or endings and when a paragraph starts with an emdash. I.e., perhaps better don’t use it if you want to have such spaces.—‘---’ must be replaced before ‘--’!

```
72 \PrependExpandableAllReplacer{blog->}{->}{\protect\to}
73 \PrependExpandableAllReplacer{blog<-}{<-}{\protect\gets}
```

You also could set `\BlogOutputJob` to a later part of the chain, or more globally change the following:

```
74 \CopyFDconditionFromTo{blog<-}{BlogLIGs}
```

3.1.8 <p> from Empty Line, Package Option

As in \TeX an empty line starts a new paragraph, we might “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, this sometimes has unwanted effects (comment lines [TODO](#)), 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`

```
75 \newif\ifBlogAutoPars
76 \newcommand*{\BlogAutoPars}{\BlogAutoParstrue}
77 \newcommand*{\noBlogAutoPars}{\BlogAutoParsfalse}
```

`\BlogAutoPars` is issued by package option `[autopars]`:

```
78 \DeclareOption{autopars}{\BlogAutoPars}
79 \ProcessOptions
```

See Sec. 3.3 for other ways of breaking paragraphs.

3.2 General HTML Matters

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

3.2.1 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:

```
80 \newcommand*\SimpleTagSurr[2]{<#1>#2</#1>}
81 \newcommand*\STS{} \let\STS\SimpleTagSurr %% 2010/05/23
82 \newcommand*\TagSurr[3]{<#1 #2>#3</#1>}
```

3.2.2 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:

```
83 \newcommand*\declareHTMLattrib[1]{%
84   \def\reserved@a{<#1>}%
85   \ifundefined{<#1>}%
86     {\@namedef{<#1>##1{<#1>="##1"}}}%
87     \@notdefinable}
```

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

A few frequent attributes are declared this way here. `@class`, `@id`, `@style`, `@title`, `@lang`, and `@dir` are the ones named on *Wikipedia*:

```
88 \let@class\relax %% for tab/arr in latex.ltx
89 \let@title\relax %% for \title in latex.ltx, %% 2011/04/26
90 \DoWithAll10f\declareHTMLattrib{{class}{id}{style}{title}{lang}{dir}}
```

`@type` is quite frequent too:

```
91 \declareHTMLattrib{type}
```

`@href` is most important for that “hyper-text:”

```
92 \declareHTMLattrib{href}
```

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

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

`@content` appears with `\MetaTag` below:

```
94 \declareHTMLattrib{content}
```

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

```
95 \declareHTMLattrib{bgcolor}
```

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

```
96 \PackageWarning{blog}{Redefining \protect\@width}
```

```
97 \let\@width\relax
```

```
98 \declareHTMLattrib{width}
```

Same with `@height`:

```
99 \PackageWarning{blog}{Redefining \protect\@height}
```

```
100 \let\@height\relax
```

```
101 \declareHTMLattrib{height} %% 2010/07/24
```

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

```
102 \newcommand*{\@align@c}{\@align{center}}
```

```
103 \newcommand*{\@align@l}{\@align{left}}
```

```
104 \newcommand*{\@align@r}{\@align{right}}
```

```
105 \newcommand*{\@align}[1]{align="#1"}
```

`@valign@t`:

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

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

```
107 \declareHTMLattrib{border} %% 2011/04/24
```

```
108 \declareHTMLattrib{cellpadding} %% 2010/07/18
```

```
109 \declareHTMLattrib{cellspacing} %% 2010/07/18
```

```
110 \declareHTMLattrib{colspan} %% 2010/07/17
```

```
111 \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.

3.2.3 Hash Mark

`\#` is needed for numerical specifications in HTML, especially colours and Unicode symbols, while it plays a different (essential) role in our definitions of \TeX macros here. We redefine \LaTeX 's `\#` for a kind of “quoting” `#` (in macro definitions) in order to refer to their HTML meaning.

```
112 { \MakeOther\# \gdef\#{#}          %% \M... 2011/11/08
113 % \catcode'\&=12 \gdef\AmpMark{&}  %% rm. 2011/11/08
114 }
```

... \CompWordMark etc.?

3.2.4 “Escaping” HTML Code for “Verbatim”

`\xmltagcode{<chars>}` yields ‘<chars>’:

```
115 \newcommand*{\xmltagcode}[1]{\code{\lt#1\gt}}
```

`\xmlentitycode{<name>}` yields the code ‘<name>;’ for an entity with name `<name>`:

```
116 \newcommand*{\xmlentitycode}[1]{\code{\&#1;}}
```

3.2.5 Head

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

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

`\MetaTag{<inside>}` creates a `<meta>` tag:

```
118 \newcommand*{\MetaTag}[1]{\indenti<meta #1>} %% \indenti 2011/11/05
```

`\charset{<code-page>}`

```
119 \newcommand*{\charset}[1]{%
```

```
120 \MetaTag{http-equiv="Content-Type" \@content{text/html; #1}}}
```

TODO: `<meta namedescription content<text>`

`\robots{<instructions>}`:

```
121 \newcommand*{\robots}[1]{%% juergenf: index, follow, noarchive
```

```
122 \MetaTag{\@name{robots} \@content{#1}}}
```

`\norobots` for privacy:

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

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

```
124 \newcommand*{\stylesheet}[2]{%
```

```
125 \space\space %% 2010/09/10
```

```
126 <link rel="stylesheet" media="#1"
```

```
127 \@type{text/css} %% \@type 2011/10/05
```

```
128 \@href{#2.css}>}
```

Alternatively, style declarations may occur in the `<style>` element. It can be accessed by the `\style` environment (cf. Sec. 3.6):

```

129 \newenvironment*{style}[1]
130     {<style \@type{text/css} media="#1">}
131     {</style>}

```

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

```

132 \renewcommand*{\title}{\space\space\SimpleTagSurr{title}}

```

3.2.6 Body

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

```

133 \newcommand*{\body}{</head><body>}

```

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

```

134 \newcommand*{\topofpage}{\hanc{top-of-page}{}}

```

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

```

135 \newcommand*{\finish}{</body></html>}

```

3.2.7 Comments

`\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.

```

136 \newcommand*{\comment}[1]{<!--#1-->}
137 % \newcommand{\commentlines}[1]{\comment{^^J#1^^J}} %% 2010/05/07
138 % %% <- TODO bzw. \endlinechar='^^J 2010/05/09 back 2010/05/10
139 \newenvironment{commentlines}[1] %% 2010/05/17
140     {<!--#1}
141     {-->}

```

3.3 Paragraphs and Line Breaks

2010/04/28: `
` for manual line breaking can be generated either by `\newline` or by `\|`:

```

142 \renewcommand*{\newline}{<br>}
143 \let\| \newline

```

Automatical insertion of `<p>` tags for starting new paragraphs according to Sec. 3.1.8 has been difficult, especially comment lines so far insert unwanted paragraph breaks (TODO 2011/11/20). So here are some ways to use L^AT_EX/Plain T_EX commands—or ...:


```

144 % \def\par{<p>} %% + empty lines !? 2010/04/26
    ← difficult with \stop; 2010/09/10: \endgraf produces </p>—TODO!?
145 \renewcommand*{\endgraf}{</p>}

```

However, I rather have decided for inserting a literal ‘<p>’ using an editor (key-board) shortcut.

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

```

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

```

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

```

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

```

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.

```

148 \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>`

```

149 \renewcommand*{\textit}{\SimpleTagSurr i}

```

etc. for `\textbf`, `\texttt` ...:

```

150 \renewcommand*{\textbf}{\SimpleTagSurr b}
151 \renewcommand*{\texttt}{\SimpleTagSurr tt} %% 2010/06/07

```

`\textsf{<text>}` chooses some sans-serif:

```

152 \renewcommand*{\textsf}{%
153   \TagSurr{span}{\@style{font-family:sans-serif}}}

```

`\textcolor` is from L^AT_EX’s `color` package that we won’t load for generating HTML, so it is “new” here, it is just natural to use it for coloured text. `` is deprecated, use `` instead:

```

154 % \newcommand*{\textcolor}[1]{\TagSurr{font}{color="#1"}}
155 \newcommand*{\textcolor}[1]{\TagSurr{span}{\@style{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:

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

`\emph{⟨text⟩}` is L^AT_EX’s command again, but somewhat abused, expanding to ‘`⟨text>`’:

```
157 \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 ...

```
158 \newcommand*{\strong}{\SimpleTagSurr{strong}}
```

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

```
159 \newcommand*{\var}{\SimpleTagSurr{var}}
```

For tagging acronyms, HTML offers the `<acronym>` element, and the TUGboat macros provide `\acro{⟨chars⟩}`. I have used the latter for some time in my package documentations anyway. For v0.7, I add the latter here as an alias for `\acronym{⟨chars⟩}` (supporting both naming policies mentioned in Sec. 3.6):

```
160 \newcommand*{\acronym}{\SimpleTagSurr{acronym}}
```

```
161 \newcommand*{\acro}{\let\acro\acronym}
```

`\newacronym{⟨LETTERS⟩}` saves you from doubling the `⟨LETTERS⟩` when you want to create the shorthand macro `\⟨LETTERS⟩`:

```
162 \newcommand*{\newacronym}[1]{%
```

```
163   \expandafter\newcommand\expandafter*\csname#1\endcsname{%
```

```
164   \acronym{#1}}}
```

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.)

```

165 \let\begin\@nameuse
166 \def\end#1{\csname end#1\endcsname}

```

... 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.
 [2011/10/05: so what? [TODO](#)]

New 2011/10/05: With `\useHTMLelement{\ltx-env}{\html-el}`, you can
 access the `<html-el>` element by the `<ltx-env>` environment. The “starred” form
 is for “list” environments where I observed around 2011/10/01 that certain links
 (with Mozilla Firefox) need ``:

```

167 \newcommand*\useHTMLelement{%
168     \@ifstar{\@useHTMLelement[</li>]}{\@useHTMLelement}}
169 \newcommand*\@useHTMLelement{[3] [] {%
170     \@namedef{#2}{<#3>}%
171     \@namedef{end#2}{#1\CLBrk</#3>}}      %% \CLBrk 2012/04/03

```

Applications:

CARE: `{small}` is an environment here, it is not in L^AT_EX:

```

172 \useHTMLelement{small}{small}

```

`{center}`:

```

173 % \renewenvironment*{center}{<p align="center">}{</p>}
174 % \renewenvironment*{center}{<p \@align@c>}{</p>}
175 \useHTMLelement{center}{center}

```

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

```

176 \useHTMLelement*{enumerate}{ol}
177 \useHTMLelement*{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”:

```

178 \useHTMLelement{verbatim} {pre}

```

`{quote}`:

```

179 \useHTMLelement{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`. 2011/10/04 including ``, repairs more links in DANTE talk (missing again 2011/10/11!?):

```

180 \renewcommand*{\item}{%
181     \indent</li>\CLBrk
182     \indent<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 (TODO star?).

```

183 \useHTMLelement{description}{dl}
184 \newcommand*{\ditem}[1]{\indent<dt>\strong{#1}<dd>}

```

3.7 Links

3.7.1 Basic Link Macros

`\hanc{<name>}{<text>}` makes `<text>` an anchor with HTML label `<name>` like `hyperref`'s `\hypertarget{<name>}{<text>}` (that we actually provide as well, towards printing from the same source):

```

185 \newcommand*{\hanc}[1]{\TagSurr a{\@name{#1}}}
186 \@ifdefinable\hypertarget{\let\hypertarget\hanc}

```

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

```

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

```

`\href{<name>}{<text>}` makes `<text>` a link to `<name>` (as with `hyperref`):

```

188 \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:

```

189 \newcommand*{\autanc}[1]{\hanc{#1}{#1}}

```

`\ancref{<name>}{<text>}` makes `<text>` a link to an anchor `<name>` on the same web page. This is especially useful for a “table of contents”—a list of links to sections of the page. It is just like `hyperref`'s `\hyperlink{<name>}{<text>}`:

```

190 \newcommand*{\ancref}[1]{\href{\@#1}}
191 \@ifdefinable\hyperlink{\let\hyperlink\ancref}

```

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

```

192 \newcommand*{\autref}[1]{\ancref{#1}{#1}}

```

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., `<text>` 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` → `it` replacement has not been completed yet.)

```
193 % \newcommand*\emhref}[2]{\href{#1}{\emph{#2}}}
194 \newcommand*\ithref}[2]{\href{#1}{\textit{#2}}}
195 \newcommand*\itancref}[2]{\ancref{#1}{\textit{#2}}}% 2010/05/30
196 \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

`\fileref{<filename-base>}`.

I have used extension `.htm` to avoid disturbing my Atari editor xEDIT or the the Atari emulator (Hatari). The extension I actually use is stored as macro `\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 `\FileRef{<filename>}`, overlooking that it was the same as `\href`.

```
197 % \newcommand*\FileRef}[1]{\TagSurr a{\@href{#1}}}
198 \newcommand*\htext{.htm} %% 2011/10/05
199 \newcommand*\fileref}[1]{\href{#1}\htext}
200 % \newcommand*\emfileref}[2]{\fileref{#1}{\emph{#2}}}
201 \newcommand*\itfileref}[2]{\fileref{#1}{\textit{#2}}}
```

`\fileancref{<file>}{<anchor>}{<text>}` links to anchor `<anchor>` on web page `<file>`:

```
202 \newcommand*\fileancref}[2]{%
203   \TagSurr a{\@href{#1}\htext{##2}}}
204 % \newcommand*\emfileancref}[3]{\fileancref{#1}{#2}{\emph{#3}}}

← 2010/05/31 →

205 \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. This may change (as with `blogdot.sty`, 2011/10/12, or more generally with local non-HTML files), so let us have a backbone `\hnewref{<prot>}{<host-path/#frag>}{<text>}` that makes `<text>` a link to `<prot>{<host-path/#frag>}`:

```

206 \newcommand*{\hnewref}[2]{%
207     \TagSurr a{\@href{#1#2" target="_blank}}}

```

So

`\httpref{<host-path/#frag>}{<text>}`

makes `<text>` a link to `http://<host-path/#frag>`:

```

208 \newcommand*{\httpref}{\hnewref{http://}}

```

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

```

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

```

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

```

210 \newcommand \urlref {} \let\urlref\urlhttpref

```

... and `\ctanref` has changed its meaning there as of 2011/10/21. `texlinks` sometimes uses a “permanent alias” `\NormalHTTPref` of `\httpref`:

```

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

```

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

```

212 \newcommand*{\httpsref}{\hnewref{https://}}

```

3.8 Characters/Symbols

3.8.1 Basic Preliminaries

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

```

213 \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 ...)

```

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

```

`\declareHTMLsymbols{<name>}{<list>}` essentially issues

`\declareHTMLsymbol{<attr>}\declareHTMLsymbols{<list>}`

while `\declareHTMLsymbols{}` essentially does nothing—great, this is an explanation by recursion!

```

215 \newcommand*{\declareHTMLsymbols}{\DoWithAllOf\declareHTMLsymbol}

```

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

```

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

```

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

```

217 \renderHTMLsymbol{\&}{amp}

```

```

218 \let\%\PercentChar

```

3.8.2 Diacritics

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

HTML entities `é` (é), `ç` (ç), `ô` (ô) etc. can be accessed by TeX’s accent commands `\’`, `\c`, `\^`, `\’`, `\"`:

```
219 % \declareHTMLsymbol{eacute}
220 % \declareHTMLsymbol{ocirc}
221 \renewcommand*{\'}[1]{&#1acute;}
222 \renewcommand*{\c}[1]{&#1cedil;}
223 \renewcommand*{\^}[1]{&#1circ;}
224 \renewcommand*{\'}[1]{&#1grave;}
225 \renewcommand*{\"}[1]{&#1uml;}
```

former `\uml{<char>}` is obsolete, use `\"<char>` (or `\"<char>`) instead.

3.8.3 Greek

```
226 \declareHTMLsymbols{{Alpha}{alpha}                %% 2012/01/06
227      {Beta}{beta}{Gamma}{gamma}{Delta}{delta}{Epsilon}{epsilon}
228      {Zeta}{zeta}{Eta}{eta}{Theta}{theta}{Iota}{iota}{Kappa}{kappa}
229      {Lambda}{lambda}{My}{my}{Ny}{ny}{Xi}{xi}{Omikron}{omikron}
230      {Pi}{pi}{Rho}{rho}{Sigma}{sigma}{sigmaf}{Tau}{tau}
231      {Upsilon}{upsilon}{Phi}{phi}{Chi}{chi}{Psi}{psi}
232      {Omega}{omega}                                %% render -> declare 2011/02/26
233      {thetasym}{upsih}{piv} }
```

3.8.4 Arrows

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

```
234 \renderHTMLsymbol {\gets}      {\larr}
235 \renderHTMLsymbol {\to}        {\rarr}
236 \renderHTMLsymbol {\uparrow}   {\uarr}    %% 2010/09/15
237 \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 `\textendash`.—`\newcommand` does not accept macros whose names start with end, so: `\endash`, `\emdash` ...

```
238 \def          \endash  {\&ndash;}          %% \end... illegal
239 \newcommand*{\emdash} {\&mdash;}
```

3.8.6 Spaces

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

```
240 \renderHTMLsymbol{\enspace}{ensp}
241 \renderHTMLsymbol{\quad}{emsp}
242 \renewcommand*{\qquad}{\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?):

```
243 % \renderHTMLsymbol{\thinspace}{thinsp}
244 % \renderHTMLsymbol{\,,}{thinsp}
245 \declareHTMLsymbol{thinsp}
246 \renderHTMLsymbol{\thinspace}{\#8239}
247 \renderHTMLsymbol{\,,}{\#8239}
```

`\figurespace` (U+2007, cf. *Wikipedia*):

```
248 \newcommand*{\figurespace}{\&\#8199;}
```

3.8.7 Quotes, Apostrophe, Prime

`\lq`, `\rq`

```
249 \renderHTMLsymbol{\lq}{lsquo}
250 \renderHTMLsymbol{\rq}{rsquo}
```

In order to use the right single quote for the HTML apostrophe, we must save other uses before. `\urlapostr` is the version of the right single quote for URLs of Wikipedia articles:

```
251 % \newcommand*{\screenqtd}[1]{\#1'} %% rm. 2011/11/08
252 \newcommand*{\urlapostr}{'} %% 2010/09/10
```

The actual change of `'` is in `\BlogCodes` (Sec. 3.1).

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

```
253 \declareHTMLsymbol{bdquo} %% 2011/09/23
254 \declareHTMLsymbol{ldquo}
255 \declareHTMLsymbol{rdquo}
256 \declareHTMLsymbol{sbquo} %% 2010/07/01
257 \renewcommand*{\prime}{\&prime;}
258 \declareHTMLsymbol{Prime}
```

A special `blog.sty` service is `\asciidq` for a “straight” double quotation mark. It is useful for *typesetting code* and also can be used to get around automatical conversion of straight into typographical quotation marks as with `\catchdq`:

```
259 \newcommand*{\asciidq}{\string"}
```

`\quot` accesses the same symbol in HTML’s terms (e.g., for displaying code):


```

260 \declareHTMLsymbol{quot}                                %% 2012/01/21

\endqtd{<text>} quotes in the English style using double quote marks,
\enqtd{<text>} uses single quote marks instead, \dedqtd{<text>} quotes in
German style, and \asciidqtd{<text>} and \quoted{<text>} use straight dou-
ble quotation marks:

261 \def\endqtd#1{\ldquo#1\rdquo}          %% \newcommand: ‘‘\end’’
262 \newcommand*\enqtd[1]{\lq#1\rq}        %% 2010/09/08, \new... 2010/11/08
263 \newcommand*\dedqtd{[1]{\bdquo#1\ldquo}
264 \newcommand*\deqtd{[1]{\&sbquo;#1\lsquo;} %% corr. 2011/05/14
265 \newcommand*\asciidqtd[1]{\asciidq#1\asciidq} %% 2011/12/21
266 \newcommand*\quoted{[1]{\quot#1\quot}   %% 2012/01/21

```

`\squoted{<text>}` surrounds `<text>` with “straight” single quotation marks, useful for other kinds of quoting in computer code:

```

267 \newcommand*\squoted[1]{\urlapostr#1\urlapostr} %% 2012/01/21

```

TODO `\glqq` from `german.sty` etc.

3.8.8 Math

Because `<` and `>` are used for HTML’s element notation, we provide aliases `\gt`, `\lt` for mathematical `<` and `>`—and for reference to HTML (or just XML) code (see Sec. 3.2.4):

```

268 \declareHTMLsymbols{{gt}{lt}}

```

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

```

269 \declareHTMLsymbols{{ge}{le}{ne}}

```

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

```

270 \let\geq\ge \let\leq\le \let\neq\ne

```

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

```

271 \renderHTMLsymbol{\langle}{lang}
272 \renderHTMLsymbol{\rangle}{rang}

```

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

```

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

```

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

```

274 \begingroup
275 \Delimiters\[\] \gdef\{[\] \gdef\}{[\]
276 \endgroup

```

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

```

277 \renderHTMlsymbol{\ast}{lowast}                %% 2011/03/29

Besides TeX's \subset and \subteq, we provide short versions \sub and
\sube inspired by HTML:

278 \declareHTMlsymbol{sub}                        %% 2011/04/04
279 \let\subset\sub                                %% 2011/05/08
280 \declareHTMlsymbol{sube}                       %% 2011/03/29
281 \let\subteq\sube                               %% 2011/05/08

```

TeX and HTML agree on \cap , \cup , and \times :

```

282 \declareHTMlsymbols{{cap}{cup}{times}}         %% 2012/01/06

```

We stick to TeX's \emptyset

```

283 \renderHTMlsymbol{\emptyset}{empty}            %% 2011/04/14

```

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

```

284 \declareHTMlsymbol{minus}                      %% 2011/03/31

```

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

```

285 \renderHTMlsymbol{\circ}{\#x2218}              %% 2011/04/28
286 \renderHTMlsymbol{\cdot}{\middot}              %% 2011/05/07

```

\sdot generates $\&sdot$, a variant of $\·$; reserved for the dot product according to the German *Wikipedia*

```

287 \declareHTMlsymbol{sdot}                       %% 2011/05/08

```

I provide \degrees for the degree symbol. L^ATeX already has \deg as an operator, therefore I do not want to use \declareHTMlsymbol here.

```

288 \newcommand*{\degrees}{\&deg;}

```

3.8.9 Other

The tilde \sim is used for its wonderful purpose, by analogy to TeX (TODO overridden by \FDpseudoTilde):

```

289 \renderHTMlsymbol{\sim}{\nbsp}

```

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

```

290 { \MakeOther\~ \gdef\tilde{\~} \gdef\tildechar{\~} }

```

Horizontal ellipsis: \dots

```

291 \renderHTMlsymbol {\dots} {\hellip}

```

`\ss` from Plain T_EX and L^AT_EX is used for the “s-z ligature”, the German “sharp s”:

```
292 \renderHTMlsymbol{\ss}{szlig}
```

`\copyright`:

```
293 \renderHTMlsymbol{\copyright}{copy}
```

`\bullet`

```
294 \renderHTMlsymbol{\bullet}{bull}
```

`\euro`:

```
295 \declareHTMlsymbol{euro}
```

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

```
296 \renderHTMlsymbol{\S}{sect}
```

`\dagger`, `\ddagger`:

```
297 \renderHTMlsymbol{\dagger}{dagger}
```

```
298 \renderHTMlsymbol{\ddagger}{Dagger}
```

Sometimes (due to certain local settings) the notations “`&\characters;`” or “`&\#<number>;`” (for Unicode) may not be available. We provide

`\htmlentity{<characters>}`

as well as

`\unicodeentity{<decimal>}`

and

`\unicodehexentity{<hexadecimal>}`

for such situations:

```
299 \newcommand*\htmlentity[1]{&\#1;}
```

```
300 \newcommand*\unicodeentity[1]{&\##1;}
```

```
301 \newcommand*\unicodehexentity[1]{&\#x#1;}
```

3.9 T_EX-related

Somebody actually using `blog.sty` must have a need to put down notes about T_EX 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.

```

302 \newcommand*\prg{[1]{} \let\prg\@firstofone
303 \newcommand*\BibTeX{\prg{BibTeX}} %% 2010/09/13
304 \renewcommand*\TeX{\prg{TeX}}
305 \renewcommand*\LaTeX{\prg{LaTeX}}
306 \newcommand*\allTeX{\prg{(La)TeX}}%% 2010/10/05
307 \newcommand*\LuaTeX{\prg{LuaTeX}}
308 \newcommand*\pdfTeX{\prg{pdfTeX}}
309 \newcommand*\XeTeX{\prg{XeTeX}} %% 2010/10/09
310 \newcommand*\TeXbook{\TeXbook} %% 2010/09/13

```

3.9.2 Describing Macros

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):

```

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

```

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

```

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

```

`\metavar{\langle name \rangle}`:

```

313 \newcommand*\metavar{[1]{\angled{meta{#1}}}}

```

3.10 Tables

I am not so sure about this section ...

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 ...

```

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

```

3.10.2 Starting/Ending Tables

`\startTable{<attributes>}` and `\endTable` have been made for appearing in different macros, such as in the two parts of a `\newenvironment`:

```
316 \newcommand*\startTable[1]{<table #1>}
317 \def\endTable{</table>}
```

`\@frame@box` among the `\startTable <attributes>` draws a frame about the table, `\@frame@groups` separates “groups” by rules:

```
318 \newcommand*\@frame@box{\@frame{box}}
319 \newcommand*\@frame@groups{\@frame{groups}}
```

`\begin{allrulestable}{<cell-padding>}{<width>}` starts a table environment with all possible rules and some code cosmetic. `<width>` may be empty ...

```
320 \newenvironment{allrulestable}[2]
321   {\startTable{\@cellpadding{#1} \@width{#2}
322               \@frame@box\ rules="all"}\CLBrk  %% \ 2011/10/12
323   \ \tbody} %% <- tbody 2011/10/13, ‘\ ’ 2011/11/09 ->
324   {\ \endtbody\CLBrk\endTable}
```

`<tbody>...</tbody>` seemed to be better with `\HVspace` for `blogdot.sty`, so it gets an environment `{tbody}` (i.e., macros `\tbody` and `\endtbody`):

```
325 \useHTMLElement{tbody}{tbody}
```

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 ...

`\begin{TableRow}{<comment>}{<attributes>}`

starts an environment producing an HTML comment `<comment>` and a table row with attributes `<attributes>`, including code cosmetic.

```
326 \newenvironment*{TableRow}[2]{%% lesser indentation 2011/04/25
327   \ \comment{ #1 }\CLBrk
328   \indenti<tr #2>%
329   }{%%
330   \indenti\endtr}                                %% \endtr 2011/11/08
```

`\begin{tablecoloredrow}{<comment>}{<background-color>}`

is a special case of `{TableRow}` where `@bgcolor` is the only attribute:

```
331 \newenvironment{tablecoloredrow}[2]
332   {\TableRow{#1}{\@bgcolor{#2}}}
333   {\endTableRow}
```

`\begin{tablecoloredboldrow}{<comment>}{<background-color>}`

is like `{tablecoloredrow}` except that content text is rendered in boldface (TODO horizontal centering?):

```

334 \newenvironment{tablecoloredboldrow}[2]          %% 2011/11/03/08
335   {\TableRow{#1}{\@bgcolor{#2}
336             \@style{font-weight:bold}}}
337   {\endTableRow}

```

`\begin{tablerow}{\langle comment \rangle}` is a special case of `\TableRow` where the only attribute yields “top” vertical alignment ([TODO](#) strange):

```

338 \newenvironment{tablerow}[1]{\TableRow{#1}{\@valign@t}}
339   {\endTableRow}

```

`\starttr` and `\endtr` delimit a row; these commands again have been made for appearing in different macros. There is *no* code indenting, probably for heavy table nesting where indenting was rather useless (? [TODO](#) only in `texblog.fdf`? there indents would have been useful).

```

340 \newcommand*{\starttr}{<tr>}
341 \def\endtr{</tr>}

```

3.10.4 Cells

`\simplecell{\langle content \rangle}` produces the most *simple* kind of an HTML table cell:

```

342 \newcommand*{\simplecell}{\SimpleTagSurr{td}}    %% 2010/07/18

```

`\TableCell{\langle attributes \rangle}{\langle content \rangle}` produces the most *general* kind of a cell, together with a code indent:

```

343 \newcommand*{\TableCell}[2]{\indentiii\startTd{#1}#2\endTd}

```

`\colorwidthcell{\langle color \rangle}{\langle width \rangle}{\langle content \rangle}` uses just the `@bgcolor` and the `@width` attribute:

```

344 \newcommand*{\colorwidthcell}[2]{\TableCell{\@bgcolor{#1}\@width{#2}}}

```

`\tablewidthcell{\langle color \rangle}{\langle width \rangle}{\langle content \rangle}` uses just the `@bgcolor` and the `@width` attribute:

```

345 \newcommand*{\tablewidthcell}[1]{\TableCell{\@width{#1}}}

```

`\tablecell{\langle content \rangle}` is like `\simplecell{\langle content \rangle}`, except that it has a code indent:

```

346 \newcommand*{\tablecell}{\TableCell{}}

```

`\tableCell{\langle content \rangle}` is like `\tablecell{\langle content \rangle}`, except that the content `\langle content \rangle` is horizontally centered. The capital C in the name may be considered indicating “centered”:

```

347 \newcommand*{\tableCell}{\TableCell\@align@c}

```

Idea: use closing star for environment variants!?

`\begin{bigtablecell}{\langle comment \rangle}` starts an *environment* yielding a table cell element without attributes, preceded by a HTML comment `\langle comment \rangle` unless `\langle comment \rangle` is empty. At least the HTML tags are indented:

```

348 \newenvironment{bigtablecell}[1]{\BigTableCell{#1}{}}
349                                     {\endBigTableCell}
350 %                                {\ifx\#1\%                %% 2010/05/30
351 %                                \indentii\ \comment{#1}\CLBrk
352 %                                \fi
353 %                                \indentiii<td>}
354 %                                {\indentii</td>}                %% !? 2010/05/23

```

`\begin{BigTableCell}{comment}{attributes}`

is like `\begin{bigtablecell}{comment}` except that it uses attributes *attributes*:

```

355 \newenvironment{BigTableCell}[2]
356     {\ifx\#1\%\\indentii\ \comment{#1}\CLBrk\fi
357     \indentiii\startTd{#2}}
358     {\indentii\endTd}                %% TODO indent? 2010/07/18

```

`\startTd{attributes}` and `\endTd` delimit a cell element and may appear in separate macros, e.g., in an environment definition. There is no code cosmetic. And finally there is `\StartTd` that yields less confusing code without attributes:

```

359 \newcommand*{\startTd}[1]{<td #1>}
360 \newcommand*{\StartTd}{<td>}                %% 2011/11/09
361 \def\endTd{</td>}

```

`\emptycell` uses `<td />` instead of `<td></td>` for an empty cell:

```

362 \newcommand*{\emptycell}{<td />}                %% 2011/10/07

```

3.10.5 “Implicit” Attributes and a “T_EX-like” Interface

After some more experience, much musing, and trying new tricks, I arrive at the following macros (v0.7). (i) When a page or a site has many tables that use the same attribute values, these should not be repeated for the single tables, rather the values should be invoked by shorthand macros, and the values should be determined at a single separate place. We will have `\stdcellpadding`, `\stdtableheadcolor` and `\stdtableheadstyle`. (ii) As with T_EX, `\cr` should suffice to *close* a *cell* and a *row*, and then to *open* another *row* and its first *cell*. And there should be a single command to close a cell within a row and open a next one.

We use `\providecommand` so the user can determine the values in a file for `blog` where `blogexec` is loaded later. `\stdcellpadding` should correspond to the CSS settings, the value of 6 you find here is just what I used recently.

```

363 \providecommand*{\stdcellpadding}{6}

```

For `\stdtableheadcolor`, I provide a gray, `#EEEEEE`, that the German Wikipedia uses for articles about networking protocols (unfortunately, it doesn’t have a CSS-3X11 color name):

```

364 \providecommand*{\stdtableheadcolor}{\#EEEEEE}

```

`\stdtableheadstyle` demands a boldface font. In general, it is used for the `@style` attribute:

```
365 \providecommand*\stdtableheadstyle{\font-weight:bold}
```

`\begin{stdallrulestable}` starts an `{allrulestable}` environment with “standard” cell padding and empty width attribute, then opens a “standard” row element with a “standard” comment as well as a cell:

```
366 \newenvironment{stdallrulestable}{%
367   \allrulestable{\stdcellpadding}{}\CLBrk
368   \TableRow{standard all-rules table}%
369   {\@bgcolor{\stdtableheadcolor}
370    \@style{\stdtableheadstyle}}\CLBrk
371   \indentii\StartTd
```

`\end{stdallrulestable}` will provide closing of a cell and a row, including a code cosmetic:

```
372   }\indenti\endTd\CLBrk\endTableRow\CLBrk
373   \endallrulestable}
```

`\endcell` closes a cell and opens a new one. The idea behind this is that an active character will invoke it. The name is inspired by `\endgraf` and `\endline` from Plain $\text{T}_{\text{E}}\text{X}$ and $\text{L}^{\text{A}}\text{T}_{\text{E}}\text{X}$ (`\newcommand` does not work with `\end...`):

```
374 \def\endcell{\endTd\StartTd}
```

Plain $\text{T}_{\text{E}}\text{X}$ ’s and $\text{L}^{\text{A}}\text{T}_{\text{E}}\text{X}$ ’s `\cr` and `\endline` are redefined for closing and opening rows and cells, including code cosmetic:

```
375 \renewcommand*\cr{\indentii\endTd\CLBrk\indenti\endtr\CLBrk
376   \indenti\starttr\CLBrk\indentii\StartTd}
377 \let\endline\cr
```

[TODO](#) variants like `\CR` for special (colored, boldface?) cells starting row

3.10.6 Filling a Row with Dummy Cells

These macros were made, e.g., for imitating a program window with a title bar (spanning something more complex below), perhaps also for a Gantt chart. `\FillRow{}{<attributes>}` produces a cell without text, spanning `` columns, with additional attributes `<attributes>`.

```
378 \newcommand*\FillRow[2]{\indentiii\startTd{\@colspan{#1} #2}\endTd}
```

`\fillrow{}` instead only uses the `@colspan` attribute:

```
379 \newcommand*\fillrow[1]{\FillRow{#1}{}}
```

`\fillrowcolor{}{<color>}` just uses the `@colspan` and the `@bgcolor` attributes:

```
380 \newcommand*\fillrowcolor[2]{\FillRow{#1}{\@bgcolor{#2}}}
```


3.10.7 Skipping Tricks

`\HVspace{<text>}{<width>}{<height>}` may change, needed for `blogdot.sty` but also for `\vspace{<height>}` with `texblog`. It is now here so I will be careful when I want to change something. `<tbody>` improved the function of `\HVspace` constructions as link text with `blogdot.sty`.

```

381 \newcommand*{\HVspace}[3]{%
382     \CLBrk
383     \startTable{@width{#2} \@height{#3}
384         \@border{0}
385         \@cellpadding{0} \@cellspacing{0}}%
386     \tbody
387     \CLBrk                                     %% 2011/10/14
388     \tablerow{HVspace}%                       %% 2011/10/13

← inserting text at top for blogdot attempts—that finally did not help anything
(2011/10/15) →

389     \simplecell{#1}%
390     \endtablerow                               %% 2011/10/13
391     \CLBrk                                     %% 2011/10/14
392     \endtbody
393     \endTable
394     \CLBrk}

\hvspace{<width>}{<height>} ...:

395 \newcommand*{\hvspace}{\HVspace{}}

\vspace{<height>} ... (TODO: {0}!?):

396 \renewcommand*{\vspace}[1]{\hvspace{#1}}
```

3.11 Misc

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

```

397 \renewcommand*{\hrule}{<hr>}

For references, there were

398 % \catcode'\^=\active
399 % \def^#1{\SimpleTagSurr{sup}{#1}}

and

400 % \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 Leaving and HISTORY

```

401 \endinput
402     VERSION HISTORY
403 v0.1    2010/08/20  final version for DFG
404 v0.2    2010/11/08  final documentation version before
405                      moving some functionality to 'fifinddo'
406 v0.3    2010/11/10  removed ^^J from \head
407          2010/11/11  moving stuff to fifinddo.sty; \BlogCopyFile
408          2010/11/12  date updated; broke too long code lines etc.;
409                      \CatCode replaced (implemented in niceverb only);
410                      \ifBlogAutoPars etc.
411          2010/11/13  doc: \uml useful in ...; \texcs
412          2010/11/14  doc: argument for {commentlines},
413                      referring to environments with curly braces,
414                      more on \ditem
415          2010/11/15  TODO: usage, templates
416          2010/11/16  note on {verbatim}
417          2010/11/23  doc. corr. on \CtanPkgRef
418          2010/11/27  "keyword"; \CopyLine without 'fd'
419          2010/12/03  \emhttpref -> \ithttpref
420          2010/12/23  '%' added to \texhaxpref
421          2011/01/23  more in \Provides...
422          2011/01/24  updated copyright; resolving 'td' ("today")
423          JUST STORED as final version before texlinks.sty
424 v0.4    2011/01/24  moving links to texlinks.sty
425 v0.41   2011/02/07  \NormalHTTPref
426          2011/02/10  refined call of 'texlinks'
427 part of MOREHYPE RELEASE r0.3
428 v0.5    2011/02/22  \BlogProvidesFile
429          2011/02/24  ... in \BlogCopyFile
430          2011/02/25  ordering symbols
431          2011/02/26  subsection Greek; note on \declareHTMLsymbol
432          2011/03/04  diacritics
433          2011/03/06  \cs
434          2011/03/09  \var
435          2011/03/16  \robots
436          2011/03/19  doc. \fileancref arg.s corr.
437          2011/03/29  \Sigma, ...
438          2011/03/31  \minus
439          2011/04/04  \times, \sub, \delta
440          2011/04/11  Greek completed
441          2011/04/14  \emptyset
442          2011/04/22  \deqtd
443          2011/04/24  doc.: folding, \stylesheet, ordered "tables";
444                      @border, @align, @valign
445          2011/04/25  lesser indentation with TableRow
446          2011/04/26  \,, \thinspace, \@title; doc. \@name
447          2011/04/28  [\circ] PROBLEM still
448          2011/04/29  \rightitpar

```

```

449      2011/05/07 \cdot
450      2011/05/08 extended doc. on math symbols; \sdot;
451      \ast replaces \lowast; \subset, \subteq;
452      \angled
453      2011/05/09 \euro
454      2011/05/11 |\geq| etc.; new section "logical markup"
455      2011/05/12 corr. doc. \heading
456      2011/05/14 right mark of \deqtd was rsquo instead of lsquo!
457      2011/05/18 \S and note on \StoreOtherCharAs
458      2011/06/27 \httpsref; doc: \acro
459      2011/07/22 \thinspace vs. \thinsp; 'fifinddo''s
460      2011/07/25 "todo" on \description
461      2011/08/18f. removing \FileRef, 0.42-> 0.5
462      2011/08/31 clarified use of \urlapostr
463  part of MOREHYPE RELEASE r0.4
464  v0.6  2011/09/08 doc. uses \HTML, \lq/\rq with &circ;,
465      doc. fix 'mult-'; \degrees
466      2011/09/21 \acronym
467      2011/09/22 \metavar; TODO \glqq...
468      2011/09/23 \bdquo
469      2011/09/25 doc. 'Characters/Symbols'; \figurespace
470      2011/09/27 "universal" attributes completed, reworked doc.
471      2011/09/30 end lists with </li>
472      2011/10/01 \dagger, \ddagger
473      2011/10/04 \item includes </li> [2011/10/11: ???]
474      2011/10/05 {style}; doc. \acronym -> \acro, \pagebreak,
475      rm. \description; {center} accesses <center>,
476      \useHTMLenvironment replaces \declareHTMLelement
477      and \renderHTMLelement, message "generating"
478      2011/10/07 \emptycell
479      2011/10/10 doc.: page breaks, $$->[/\]
480  part of MOREHYPE RELEASE r0.5
481  v0.61 2011/10/11 </li> in \item again, \Provides... v wrong
482      2011/10/12 \hnewref, '\ ' in allrulestable
483      2011/10/14 \CLBrk's
484      2011/10/15 doc. note on \HVspace/blogdot
485  part of MOREHYPE RELEASE r0.51
486  v0.62 2011/10/16 \hyperlink, \hypertarget; doc. fixes there
487      2011/10/20 \textcolor by <span>, \textsf
488      2011/10/21 \ctanref now in texlinks.sty;
489      doc.: grammar with 'that'
490      2011/10/22 \BlogCopyFile message removed
491  part of MOREHYPE RELEASE r0.52
492  v0.7  2011/11/03 {tablecoloredboldrow}
493      2011/11/05 \ContentAtt -> \@content,
494      \BlogCopyFile -> \BlogProcessFile (blogexec),
495      doc. different \pagebreak's
496      2011/11/06 run \BlogCopyLines, doc. \[...\]
497      2011/11/07 \ProvideBlogExec
498      2011/11/08 \endtr in \endTableRow, using \MakeOther,

```

```

499             right quote change moves to \BlogCodes,
500             \BlogInterceptHash; rm. \AmpMark & doc. about it,
501             mod. on #; doc. for tables; start doc. "implicit"
502             table attributes and "TeX-like" interface
503     2011/11/09 \tablecolorcell(?); cont. "implicit" etc.;
504             \StartTd
505     2011/11/20 \isotoday, \BlogProcessFinalFile,
506             catcodes of '<' '>' untouched; restructured,
507             structured processing, misc -> ordinary
508     2011/11/21 BlogLIGs
509     2011/11/23 \xmltagcode, \xmlentitycode, \c;
510             doc: <p>, \secref, \pagebreak
511     2011/11/24 doc: example results for diacritics
512     2011/11/27 \ParseLigs; doc. rm. \pagebreak
513     2011/12/12 \title uses \SimpleTagSurr
514     2011/12/19 doc. fix {tablerow}
515     2011/12/21 \asciidq, \asciidqtd
516     2012/01/06 \acro; using dowith.sty (\declareHTMLsymbols);
517             doc.: cross-referring for naming policies
518     2012/01/07 \MakeActiveDef~ for \FDpseudoTilde
519     2012/01/11 (C)
520     2012/01/21 \quot, \quoted. \squoted
521     2012/02/04 \newacronym
522     2012/03/14 removed hidden and another comment with
523             \BlogCopyLines, fixed latter, TODO on \NoBlogLigs
524     2012/03/17 tweaked \@typeset@protect for \EXECUTE
525     2012/03/30 space in stdallrules... after @bgcolor
526     2012/04/03 \CLBrk in \@useHTMLelement
527     2012/04/09 \htmlentity, \unicodeentity
528     2012/05/13 \ss; better comment on \uml;
529             #EEEEEE not "web-safe"
530

```

4 Real Web Pages with Inavicol.sty

This is the code and documentation of the package mentioned in Sec. 2.2.

```

1  \ProvidesPackage{lnavicol}[2011/10/13
2                                left navigation column with blog.sty]
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

```

4.1 blog.sty Required

—but what about options ([TODO](#))?

```

18 \RequirePackage{blog}

```

4.2 Switches

There is a “standard” page width and a “tight one” (the latter for contact forms)—`\iftight`:

```

19 \newif\iftight

```

In order to move an anchor to the *top* of the screen when the anchor is near the page end, the page must get some extra length by adding empty space at its bottom—`\ifdeep`:

```

20 \newif\ifdeep

```

4.3 Page Style Settings (to be set locally)

```

21 % \newcommand*{\pagebgcolor}{\#f5f5f5} %% CSS whitesmoke
22 % \newcommand*{\pagespacing}{\@cellpadding{4} \@cellspacing{7}}
23 % \newcommand*{\pagenavicolwidth}{125}
24 % \newcommand*{\pagemaincolwidth}{584}
25 % \newcommand*{\pagewholewidth}{792}

```

4.4 Possible Additions to **blog.sty**

4.4.1 Tables

`\begin{spancolscell}{ $\langle number \rangle$ }{ $\langle style \rangle$ }` opens an environment that contains a row and a single cell that will span $\langle number \rangle$ table cells and have style $\langle style \rangle$:

```
26 \newenvironment{spancolscell}[2]{%
27     \starttr\startTd{\@colspan{#1} #2 %
28         \@width{100\%}}% %% TODO works?
29     }\endTd\endtr}
```

The `{\hiddencells}` environment contains cells that do not align with other cells in the surrounding table. The purpose is using cells for horizontal spacing.

```
30 \newenvironment{hiddencells}
31     {\startTable{}\starttr}
32     {\endtr\endTable}
```

`{\pagehiddencells}` is like `{\hiddencells}` except that the HTML code is indented:

```
33 \newenvironment{pagehiddencells}
34     {\indentii\hiddencells}
35     {\indentii\endhiddencells}
```

`\begin{FixedWidthCell}{ $\langle width \rangle$ }{ $\langle style \rangle$ }` opens the `{FixedWidthCell}` environment. The content will form a cell of width $\langle width \rangle$. $\langle style \rangle$ are additional formatting parameters:

```
36 \newenvironment{FixedWidthCell}[2]
37     {\startTd{#2}\startTable{\@width{#1}}%
38     \starttr\startTd{}}
39     {\endTd\endtr\endTable\endTd}
```

`\tablehspace{ $\langle width \rangle$ }` is a variant of L^AT_EX's `\hspace{ $\langle glue \rangle$ }`. It may appear in a table row:

```
40 \newcommand*{\tablehspace}[1]{\startTd{\@width{#1} /}}
```

4.4.2 Graphics

The command names in this section are inspired by the names in the standard L^AT_EX `graphics` package. (They may need some re-organization [TODO](#).)

`\simpleinclgrf{ $\langle file \rangle$ }` embeds a graphic file $\langle file \rangle$ without the tricks of the remaining commands.

```
41 \newcommand*{\simpleinclgrf}[1]{\IncludeGrf{alt="" \@border{0}}%
42     {#1}}
```

`\IncludeGrf{ $\langle style \rangle$ }{ $\langle file \rangle$ }` embeds a graphic file $\langle file \rangle$ with style settings $\langle style \rangle$:

```

43 \newcommand*{\IncludeGrf}[2]{}

\includegraphic{<width>}{<height>}{<file>}{<border>}{<alt>}{<tooltip>} ...:

44 \newcommand*{\includegraphic}[6]{%
45   \IncludeGrf{%
46     \@width{#1} \@height{#2} %% data; presentation:
47     \@border{#4}
48     alt="#5" \@title{#6}}%
49   {#3}}

\insertgraphic{<wd>}{<ht>}{<f>}{<b>}{<align>}{<hsp>}{<vsp>}{<alt>}{<t>}
adds <hsp> for the @hspace and <vsp> for the @vspace attribute:

50 \newcommand*{\insertgraphic}[9]{%
51   \IncludeGrf{%
52     \@width{#1} \@height{#2} %% data; presentation:
53     \@border{#4}
54     align="#5" hspace="#6" vspace="#8"
55     alt="#8" \@title{#9}}%
56   {#3}}

\includegraphic{<wd>}{<ht>}{<file>}{<anchor>}{<border>}{<alt>}{<tooltip>}
uses an image with \includegraphic parameters as a link to <anchor>:

57 \newcommand*{\inclgrfref}[7]{%
58   \fileref{#4}{\includegraphic{#1}{#2}{#3}%
59     {#5}{#6}{#7}}}

```

4.4.3 HTTP/Wikipedia tooltips

`\httptipref{<tip>}{<www>}{<text>}` works like `\httpref{<www>}{<text>}` except that `<tip>` appears as “tooltip”:

```

60 \newcommand*{\httptipref}[2]{%
61   \TagSurr a{\@title{#1}\@href{http://#2}\@target@blank}}

```

`\@target@blank` abbreviates the `@target` setting for opening the target in a new window or tab:

```

62 \newcommand*{\@target@blank}{target="_blank"}

```

`\wikitipref{<lc>}{<lem>}{<text>}` works like `\wikiref{<lc>}{<lem>}{<text>}` except that “Wikipedia” appears as “tooltip”. `\wikideref` and `\wikienref` are redefined to use it:

```

63 \newcommand*{\wikitipref}[2]{%
64   \httptipref{Wikipedia}{#1.wikipedia.org/wiki/#2}}
65 \renewcommand*{\wikideref}{\wikitipref{de}}
66 \renewcommand*{\wikienref}{\wikitipref{en}}

```

4.5 Page Structure

The body of the page is a table of three rows and two columns.

4.5.1 Page Head Row

`\PAGEHEAD` opens the head row and a single cell that will span the two columns of the second row.

```

67 \newcommand*{\PAGEHEAD}{%
68   \startTable{%
69     \@align@c\
70     \@bgcolor{\pagebgcolor}%
71     \@border{0}%%           %% TODO local
72     \pagespacing
73     \iftight \else \@width\pagewidth \fi
74   }\CLBrk
75   %% omitting <tbody>
76   \comment{ HEAD ROW }\CLBrk
77   \indentii\spancolscell{2}{}%
78 }
79 % \newcommand*{\headgrf} [1]{%           %% rm. 2011/10/09
80 %   \indentiii\simplecell{\simpleinclgrf{#1}}
81 % \newcommand*{\headgrfskiptitle}[3]{%
82 %   \pagehiddencells
83 %   \headgrf{#1}\CLBrk
84 %   \headskip{#2}\CLBrk
85 %   \headtitle1{#3}\CLBrk
86 %   \endpagehiddencells}

```

`\headuseskiptitle{<grf>}{<skip>}{<title>}` first places `<grf>`, then skips horizontally by `<skip>`, and then prints the page title as `<h1>`:

```

87 \newcommand*{\headuseskiptitle}[3]{%
88   \pagehiddencells\CLBrk
89   \indentiii\simplecell{#1}\CLBrk
90   \headskip{#2}\CLBrk
91   \headtitle1{#3}\CLBrk
92   \endpagehiddencells}

```

`\headskip{<skip>}` is like `\tablehspace{<skip>}` except that the HTML code gets an indent.

```

93 \newcommand*{\headskip} { \indentiii\tablehspace}

```

Similarly, `\headtitle{<digit>}{<text>}` is like `\heading{<digit>}{<text>}` apart from an indent and being put into a cell:

```

94 \newcommand*{\headtitle}[2]{\indentiii\simplecell{\heading#1{#2}}}

```


4.5.2 Navigation and Main Row

`\PAGENAVI` closes the head row and opens the “navigation” column, actually including an `{itemize}` environment. Accordingly, `writings.fdf` has a command `\fileitem`. But it seems that I have not been sure ...

```

95 \newcommand*{\PAGENAVI}{%
96     \indentii\endspancolscell\CLBrk
97     \indentii\starttr\CLBrk
98     \ \comment{NAVIGATION COL}\CLBrk
99     \indentii\FixedWidthCell\pagenavicolwidth
100     {\@class{paper}

```

← using `@class=paper` here is my brother’s idea, not sure about it ...

```

101         \@valign@t}
102     %% omitting ‘\@height{100\%}’
103     \itemize}

```

`\PAGEMAINvar{<width>}` closes the navigation column and opens the “main content” column. The latter gets width `<width>`:

```

104 \newcommand*{\PAGEMAINvar}[1]{%
105     \indentii\enditemize\ \endFixedWidthCell\CLBrk
106     \ \comment{ MAIN COL }\CLBrk
107     \indentii\FixedWidthCell{#1}{}}

```

... The width may be specified as `\pagemaincolwidth`, then `\PAGEMAIN` works like `\PAGEMAINvar{\pagemaincolwidth}`:

```

108 \newcommand*{\PAGEMAIN}{\PAGEMAINvar\pagemaincolwidth}

```

4.5.3 Footer Row

`\PAGEFOOT` closes the “main content” column as well as the second row, and opens the footer row:

```

109 \newcommand*{\PAGEFOOT}{%
110     \indentii\endFixedWidthCell\CLBrk
111     % \indentii\tablespace{96}\CLBrk %% vs. \pagemaincolwidth
112     %% <- TODO margin right of foot
113     \indentii\endtr\CLBrk
114     \ \comment{ FOOT ROW / }\CLBrk
115     \indentii\spancolscell{2}{\@class{paper} \@align@c}%

```

← again class “paper”!?

```

116 }

```

`\PAGEEND` closes the footer row and provides all the rest ... needed?

```

117 \newcommand*{\PAGEEND}{\indentii\endspancolscell\endTable}

```

4.6 The End and HISTORY

```

118 \endinput
119
120 HISTORY
121
122 2011/04/29   started (? \if...)
123 2011/09/01   to CTAN as 'twocolpg.sty'
124 2011/09/02   renamed
125 2011/10/09f. documentation more serious
126 2011/10/13   '....:' OK
127

```

5 Beamer Presentations with blogdot.sty

5.1 Overview

blogdot.sty extends blog.sty in order to construct “HTML slides.” One “slide” is a 3×3 table such that

1. it **fills** the computer **screen**,
2. the center cell is the “**type area**,”
3. the “margin cell” below the center cell is a **link** to the **next** “slide,”
4. the lower right-hand cell is a “**restart**” link.

Six **size parameters** listed in Sec. 5.4 must be adjusted to the screen in `blogdot.cfg` (or in a file with project-specific definitions).

We deliver a file `blogdot.css` containing **CSS** font size declarations that have been used so far; you may find better ones or ones that work better with your screen size, or you may need to add style declarations for additional HTML elements.

Another parameter that the user may want to modify is the “**restart**” **anchor name** `\BlogDotRestart` (see Sec. 5.6). Its default value is `START` for the “slide” opened by the command `\titlescreenpage` that is defined in Sec. 5.5.

That slide is meant to be the “**title slide**” of the presentation. In order to **display** it, I recommend to make and use a **link** to `START` somewhere (such as with `blog.sty`’s `\ancref` command). The *content* of the title slide is *centered* horizontally, so certain commands mentioned *below* (centering on other slides) may be useful.

After `\titlescreenpage`, the next main **user commands** are

`\nextnormalscreenpage{<anchor-name>}` starts a slide whose content is aligned flush left,

`\nextcenterscreenpage{<anchor-name>}` starts a slide whose content is centered horizontally.

—cf. Sec. 5.7. Right after these commands, as well as right after `\titlescreen{-page}`, code is used to generate the content of the **type area** of the corresponding slide. Another `\next...` command closes that content and opens another slide. The presentation (the content of the very last slide) may be finished using `\screenbottom{<final>}` where *<final>* may be arbitrary, or **START** may be a fine choice for *<final>*.

Finally, there are user commands for **centering** slide content horizontally (cf. Sec. 5.8):

`\cheading{<digit>}{<title>}` “printing” a heading centered horizontally—even on slides whose remaining content is aligned *flush left* (I have only used *<digit>*=2 so far),

`\begin{<textblock>}{<width>}` “printing” the content of a `{textblock}` environment with maximum line width *<width>* flush left, while that “block” as a whole may be centered horizontally on the slide due to choosing `\nextcenterscreenpage`—especially for **list** environments with entry lines that are shorter than the type area width and thus would not look centered (below a centered heading from `\cheading`).

The so far single **example** of a presentation prepared using `blogdot` is `dantev45.htm` (fifinddo-info bundle), a sketch of applying `fifinddo` to package documentation and HTML generation. A “driver” file is needed for generating the HTML code for the presentation from a `.tex` source by analogy to generating any HTML file using `blog.sty`. For the latter purpose, I have named my driver files `makehtml.tex`. For `dantev45.htm`, I have called that file `makedot.tex`, the main difference to `makehtml.tex` is loading `blogdot.sty` in place of `blog.sty`.

This example also uses a file `dantev45.fdf` that defines some commands that may be more appropriate as user-level commands than the ones presented here (which may appear to be still too low-level-like):

`\teilpage{<number>}{<title>}` making a “cover slide” for announcing a new “part” of the presentation in German,

`\labelsection{<label>}{<title>}` starting a slide with heading *<title>* and with anchor *<label>* (that is displayed on clicking a *link* to *<label>*)—using

`\nextnormalscreenpage{<label>}` and `\cheading2{<title>}`,

`\labelcentersection{<label>}{<title>}` like the previous command except that the slide content will be *centered* horizontally, using

`\nextcenterscreenpage{<title>}`.

Reasons to make HTML presentations may be: (i) As opposed to office software, this is a transparent light-weight approach. Considering *typesetting* slides with \TeX , (ii) \TeX ’s advanced typesetting abilities such as automatical page breaking are not very relevant for slides; (iii) a typesetting run needs a

second or a few seconds, while generating HTML with `blog.sty` needs a fraction of a second; (iv) adjusting formatting parameters such as sizes and colours needed for slides is somewhat more straightforward with HTML than with \TeX .

Limitations: First I was happy about how it worked on my netbook, but then I realized how difficult it is to present the “slides” “online.” Screen sizes (centering) are one problem. (Without the “restart” idea, this might be much easier.) Another problem is that the “hidden links” don’t work with Internet Explorer as they work with Firefox, Google Chrome, and Opera. And finally, in internet shops some HTML entities/symbols were not supported. In any case I (again) became aware of the fact that HTML is not as “**portable**” as PDF.

Some **workarounds** are described in Sec. 5.9. `\FillBlogDotTypeArea` has two effects: (i) providing an additional link to the *next* slide for MSIE, (ii) *widening* and centering the *type area* on larger screens than the one which the presentation originally was made for. An optional argument of `\TryBlogDotCFG` is offered for a `.cfg` file overriding the original settings for the presentation. Using it, I learnt that for “portability,” some manual line breaks (`\\`, `
`) should be replaced by “ties” between the words *after* the intended line break (when the line break is too ugly in a wider type area). For keeping the original type area width on wider screens (for certain “slides”, perhaps when line breaks really are wanted to be preserved), the `{textblock}` environment may be used. Better HTML and CSS expertise may eventually lead to better solutions.

The **name** ‘blogdot’ is a “pun” on the name of the `powerdot` package (which in turn refers to “PowerPoint”).

5.2 File Header

```

1  \NeedsTeXFormat{LaTeX2e}[1994/12/01] %% \newcommand* etc.
2  \ProvidesPackage{blogdot}[2011/10/22 v0.4 HTML presentations (UL)]
3  %% copyright (C) 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 %%
```

5.3 blog Required

blogdot is an extension of blog (but what about options? [TODO](#)):

```
18 \RequirePackage{blog}
```

5.4 Size Parameters

I assume that it is clear what the following six page dimension parameters

```
\leftpagemargin, \rightpagemargin, \upperpagemargin,
\lowerpagemargin, \typeareawidth, \typeareaheight
```

mean. The choices are what I thought should work best on my 1024×600 screen (in fullscreen mode); but I had to optimize the left and right margins experimentally (with Mozilla Firefox 3.6.22 for Ubuntu canonical - 1.0). It seems to be best when the horizontal parameters together with what the browser adds (scroll bar, probably 32px with me) sum up to the screen width.

```
19 \newcommand*\leftpagemargin{176}
20 \newcommand*\rightpagemargin{\leftpagemargin}
```

So `\rightpagemargin` ultimately is the same as `\leftpagemargin` as long as you don't redefine it, and it suffices to `\renewcommand \leftpagemargin` in order to get a horizontally centered type area with user-defined margin widths.— Something analogous applies to `\upperpagemargin` and `\lowerpagemargin`:

```
21 \newcommand*\upperpagemargin{80}
22 \newcommand*\lowerpagemargin{\upperpagemargin}
```

A difference to the “horizontal” parameters is (I expect) that the position of the type area on the screen is affected by `\upperpagemargin` only, and you may choose `\lowerpagemargin` just large enough that the next slide won't be visible on any computer screen you can think of.

```
23 \newcommand*\typeareawidth{640}
24 \newcommand*\typeareaheight{440}
```

Centering with respect to web page body may work better on different screens (2011/10/03), but it doesn't work here (2011/10/04).

```
25 % \renewcommand*\body{%
26 %     </head>\CLBrk
27 %     <body \@bgcolor{\bodybgcolor} \@align@c>}
```

`\CommentBlogDotWholeWidth` produces no HTML code ...

```
28 \global\let\BlogDotWholeWidth\@empty
```

... unless calculated with `\SumBlogDotWidth`:

```

29 \newcommand*{\SumBlogDotWidth}{%
30     \relax{%                               %% \relax 2011/10/22 magic ...
31         \count@ \typeareawidth
32         \advance \count@ \leftmargin
33         \advance \count@ \rightmargin
34         \typeout{ * blogdot slide width = \the\count@ \space}%
35         \xdef\CommentBlogDotWholeWidth{%
36             \comment{ slide width = \the\count@ \ }}}

```

5.5 (Backbone for) Starting a “Slide”

`\startscreenpage{<style>}{<anchor-name>}`

```

37 \newcommand*{\startscreenpage}[2]{%% 0 2011/09/25!?:
38     \startTable{%
39         \@cellpadding{0} \@cellspacing{0}%
40         \maybe@blogdot@borders           %% 2011/10/12
41         \maybe@blogdot@frame             %% 2011/10/14
42     }%
43     \CLBrk                                %% 2011/10/03
44     \starttr

```

First cell determines both height of upper page margin `\uppermargin` and width of left page margin `\leftmargin`:

```

45     \startTd{\@width {\leftmargin }%
46         \@height{\uppermargin}}%
47     %     \textcolor{\bodybgcolor}{XYZ}%
48     \endTd

```

Using `\typeareawidth`:

```

49     %     \startTd{\@width{\typeareawidth}}\endTd
50     \simplecell{%
51         \CLBrk
52         \hanc{#2}{\hvspace{\typeareawidth}%
53             {\uppermargin}}%
54         \CLBrk
55     }%

```

Final cell of first row determines right margin width:

```

56     \startTd{\@width{\leftmargin}}\endTd
57     \endtr
58     \starttr
59     \emptycell\startTd{\@height{\typeareaheight}#1}%
60 }

```

`\titlescreenpage` (`\STARTscreenpage` [TODO?](#)) opens the title page (I thought). To get it to your screen, (make and) click a link like

`\ancref{START}{start_presentation}` :

```

61 \newcommand*{\titlescreenpage}{%
62     \startscreenpage{\@align@c}{START}}

```

5.6 Finishing a “Slide” and “Restart” (Backbone)

`\screenbottom{<next-anchor>}` finishes the current slide and links to the `<next-anchor>`, the anchor of a slide opened by

`\startscreenpage{<style>}{<next-anchor>}`.

More precisely, the margin below the type area is that link. The corner at its right is a link to the anchor to whose name `\BlogDotRestart` expands.

```

63 \newcommand*{\screenbottom}[1]{%
64   \ifFillBlogDotTypeArea
65     <p>\ancref{#1}{\BlogDotFillText}%    %% not </p> 2011/10/22
66   \fi
67   \endTd\emptycell
68   \endtr
69   \CLBrk
70   \tablerow{bottom margin}%              %% 2011/10/13
71   \emptycell
72   \CLBrk
73   \startTd{\@align@c}%
74   \ancref{#1}{\HVspace{\BlogDotBottomFill}%
← seems to be useless now (2011/10/15).

75   {\typeareawidth}%
76   {\lowerpagemargin}}%
77   \endTd
78   \CLBrk
79   \simplecell{\ancref{\BlogDotRestart}%
80   {\hvspace{\rightpagemargin}%
81   {\lowerpagemargin}}}%
82   \endtablerow
83   \CLBrk
84   \endTable
85 }
```

The default for `\BlogDotRestart` is `START`—the title page. You can `\renewcommand` it so you get to a slide containing an overview of the presentation.

```

86 \newcommand*{\BlogDotRestart}{START}
```

5.7 Moving to Next “Slide” (User Level)

`\nextscreenpage{<style>}{<anchor-name>}` puts closing the previous slide and opening the next one—having anchor name `<anchor-name>`—together. `<style>` is for style settings for the next page, made here for choosing between centering the page/slide content and aligning it flush left.

```

87 \newcommand*{\nextscreenpage}[2]{%
88   \screenbottom{#2}\CLBrk
89   \hrule           \CLBrk
90   \startscreenpage{#1}{#2}}
```

`\nextcenterscreenpage{<anchor-name>}` chooses centering the slide content:

```
91 \newcommand*{\nextcenterscreenpage}{\nextscreenpage{\@align@c}}
```

`\nextnormalscreenpage{<anchor-name>}` chooses flush left on the type area determined by `\typeareawidth`:

```
92 \newcommand*{\nextnormalscreenpage}{\nextscreenpage{}}
```

5.8 Constructs for Type Area

If you want to get centered titles with `<h2>` etc., you should declare this in `.css` files. But you may consider this way too difficult, and you may prefer to declare this right in the HTML code. That's what I do! I use `\cheading{<digit>}{<text>}` for this purpose.

```
93 \newcommand*{\cheading}[1]{\CLBrk\TagSurr{h#1}{\@align@c}}
```

`\begin{textblock}{<width>}` opens a `{textblock}` environment. The latter will contain text that will be flush left in a narrower text area—of width `<width>`—than the one determined by `\typeareawidth`. It may be used on "centered" slides. It is made for lists whose entries are so short that the page would look unbalanced under a centered title with the list adjusted to the left of the entire type area. (Thinking of standard L^AT_EX, it is almost the `{minipage}` environment, however lacking the footnote feature, in that respect it is rather similar to `\parbox` which however is not an environment.)

```
94 \newenvironment*{textblock}[1]
95   {\startTable{\@width{#1}}\starttr\startTd{}}
96   {\endTd\endtr\endTable}
```

5.9 Debugging and .cfgs

`\ShowBlogDotBorders` shows borders of the page margins and may be undone by `\DontShowBlogDotBorders`:

```
97 \newcommand*{\ShowBlogDotBorders}{%
98   \def\maybe@blogdot@borders{rules="all"}}
99 \newcommand*{\DontShowBlogDotBorders}{%
100   \let\maybe@blogdot@borders\@empty}
101 \DontShowBlogDotBorders
```

`\ShowBlogDotFrame` shows borders of the page margins and may be undone by `\DontShowBlogDotFrame`:

```
102 \newcommand*{\ShowBlogDotFrame}{%
103   \def\maybe@blogdot@frame{\@frame@box}}
104 \newcommand*{\DontShowBlogDotFrame}{%
105   \let\maybe@blogdot@frame\@empty}
106 \DontShowBlogDotFrame
```


`\BlogDotFillText` is a dirty trick ... seems to widen the type area and this way centers the text on wider screens than the one used originally. Of course, this can corrupt intended line breaks.

`\FillBlogDotTypeArea` fills `\BlogDotFillText` into the type area, also as a link to the next slide. This may widen the type area so that the text is centered on wider screens than the one the HTML page was made for. The link may serve as an alternative to the bottom margin link (which sometimes fails). `\FillBlogDotTypeArea` can be undone by `\DontFillBlogDotTypeArea`:

`\FillBlogDotBottom` fills `\BlogDotFillText` into the center bottom cell. I tried it before `\FillBlogDotTypeArea` and I am not sure ... It can be undone by `\DontFillBlogDotBottom`:

```
129 \newcommand*{\DontShowBlogDotFillText}{%
130 % \def\BlogDotFillColor{\textcolor{\bodybgcolor}}}
```

```

131     \def\BlogDotFillTextColor{%
132         \TagSurr{font}{color="\bodybgcolor"}}}
133     \newcommand*\ShowBlogDotFillText{%
134         \def\BlogDotFillTextColor{\textcolor{red}}}}
135     \DontShowBlogDotFillText

```

As of 2011/10/21, `texlinks.sty` provides `\ctanfileref{<path>}{<file-name>}` that uses an online TeX archive according to

`\usemirrorctan` or `\usetugctan`.

This is preferable for an online version of the presentation. In `dantev45.htm`, this is used for example files. When, on the other hand, internet access during the presentation is bad, such example files may instead be loaded from the “current directory.” `\usecurrdirctan` modifies `\ctanfileref` for this purpose (i.e., it will ignore `<path>`):

```

136     \newcommand*\usecurrdirctan{%
137         \renewcommand*\ctanfileref}[2]{%
138             \hnewref{}{##2}{\filenamefmt{##2}}}}

```

(Using a local TDS tree would be funny, but I don’t have good idea for this right now.)

`\TryBlogDotCFG` looks for `blogdot.cfg`,

`\TryBlogDotCFG[<file-name-base>]`

looks for `<file-name-base>.cfg` (for recompiling a certain file):

```

139     \newcommand*\TryBlogDotCFG}[1][blogdot]{%
140         \InputIfFileExists{#1.cfg}{%
141             \typeout{
142                 * Using local settings from \string'#1.cfg\string' *}%
143             }{}%
144         }
145     \TryBlogDotCFG

```

5.10 The End and HISTORY

```

146     \endinput

```

VERSION HISTORY

```

147     v0.1      2011/09/21f.  started
148                2011/09/25  spacing/padding off
149                2011/09/27  \CLBrk
150                2011/09/30  \BlogDotRestart
151                used for DANTE meeting
152     v0.2      2011/10/03  four possibly independent page margin
153                parameters; \hvspace moves to texblog.fdf
154                2011/10/04  renewed \body commented out
155                2011/10/07  documentation

```

```
156      2011/10/08    added some labels
157      2011/10/10    v etc. in \ProvidesPackage
158      part of morehype RELEASE r0.5
159 v0.3  2011/10/11    \HVspace, \BlogDotFillText
160      2011/10/12    commands for \BlogDotFillText
161      2011/10/13    more doc. on "debugging";
162                      \ifFillBlogDotTypeArea, \tablerow, messages
163      2011/10/14    \maybe@blogdot@frame
164      2011/10/15    doc. note: \HVspace useless
165      part of morehype RELEASE r0.51
166 v0.4  2011/10/21    \usecurrdirctan
167      2011/10/22    FillText with <p> instead of </p>, its color
168                      uses <font>; some more reworking of doc.
169
```