Abstract

This document contains some demonstrations of features in the xdoc package. It's not particularly organised, though.

1 Describing control sequence families

The following piece of code is from the source for fontinst:

```
The kerning information is kept in the macros
\describecsfamily{l-\meta{name}}|\l-|\meta{name} and
\describecsfamily{r-\meta{name}}|\r-|\meta{name}, containing
information about how \meta{name} kerns on the left and on the right,
respectively.  The |\l-|\meta{name} macro should expand out to a
series of
\begin{quote}
  \DescribeMacro{\k}|\k|\,|\r-|\meta{name}\,|\|\meta{amount}
\end{quote}
control sequences, and vice versa. Examples of
\describecsfamily{\meta{amount}} |\|\meta{amount}
control sequences are: |\0|, |\1|, |\1000|, |\-50|, |\33|; these
corresponds to the kern amounts $0$, $1$, $1000$ (which would be
a very large kern), $-50$, and $33$ respectively.
```

Now I'm going to write that it typesets as what follows below, but it looks better if this paragraph is a couple of lines long, since that enables one to see where the right margin actually begins. But that seems to be long enough. Thus: It typesets as

> The kerning information is kept in the macros `\l-`⟨*name*⟩ and `\r-`⟨*name*⟩, containing information about how ⟨*name*⟩ kerns on the left and on the right, respectively. The `\l-`⟨*name*⟩ macro should expand out to a series of
>
> > `\k` `\r-`⟨*name*⟩ `\`⟨*amount*⟩
>
> control sequences, and vice versa. Examples of `\`⟨*amount*⟩ control sequences are: `\0`, `\1`, `\1000`, `\-50`, `\33`; these corresponds to the kern amounts 0, 1, 1000 (which would be a very large kern), −50, and 33 respectively.

`\l-`⟨*name*⟩
`\r-`⟨*name*⟩
`\k`
`\`⟨*amount*⟩

2 Defining new `macro`-like environments

Another example from fontinst—the fisource package (v 2.02) contains the command

```
\NewMacroEnvironment{fistring}{\XD@grab@harmless\relax}{1}%
   {\MacroFont#1 \normalfont string}%
   {\XDMainIndex{\levelsorted{#1 I}{\texttt{#1} (string)}}%
    \XDMainIndex{\levelsame{strings:}\levelsorted{#1}{\texttt{#1}}}}%
   {{#1}{\texttt{#1} string}}%
   {}
```

which defines a new `macro`-like environment called `fistring` (for fontinst string variable). The fourth argument above specifies how the marginal heading should be formatted, the fifth argument specifies which index entries should be made on account of this environment, and the sixth argument gives the list of changes heading (and its sorting) that should be used inside this `macro`-like environment.

With the command defined, the code

```
% \begin{macro}{\make_pltotf}
% \begin{fistring}{TFMfileprefix}
%   |\make_pltotf| writes a \package{PLtoTF} command for converting the
%   current font's PL file to a TFM file. If set, the string
%   \texttt{TFMfileprefix} will be prepended to the TFM file name---this
%   could be used for putting the TFMs in some directory other than the
%   current.
%    \begin{macrocode}
\def\make_pltotf{
   \pout_line\output_pltotf{pltotf~\TeX_font_name.pl~
      \ifisstr{TFMfileprefix}\then \str{TFMfileprefix}\fi
      \TeX_font_name.tfm
   }
}
%    \end{macrocode}
% \end{fistring}\end{macro}
```

will print as

`\make_pltotf`
`TFMfileprefix` string

`\make_pltotf` writes a PLtoTF command for converting the current font's PL file to a TFM file. If set, the string `TFMfileprefix` will be prepended to the TFM file name—this could be used for putting the TFMs in some directory other than the current.

```
\def\make_pltotf{
   \pout_line\output_pltotf{pltotf~\TeX_font_name.pl~
      \ifisstr{TFMfileprefix}\then \str{TFMfileprefix}\fi
      \TeX_font_name.tfm
   }
}
```

3 Two-sided printing

As you may have noticed, marginal material has so far consistently been put in the *outer* margin, but the examples so far given of such material that appears in the right margin have been restricted to marginal material made via the `\marginpar` command (in various disguises), and that isn't so hard to achieve. It's much harder to achieve it for marginal material produced as list item labels, so here are a few examples to illustrate that it works for these as well. (The filling up text is taken from the fontsmpl package in the Tools bundle.)

(A bit of space to put the text near the page break.)

`Stanford`

On November 14, 1885, Senator & Mrs. Leland Stanford called together at their San Francisco mansion the 24 prominent men who had been chosen as the first trustees of The Leland Stanford Junior University.

`charter`

They handed to the board the Founding Grant of the University, which they had executed three days before. This document—with various amendments, legislative acts, and court decrees—remains as the University's charter.

`objectives`

In bold, sweeping language it stipulates that the objectives of the University are "to qualify students for personal success and direct usefulness in life;

`continuation`

and to promote the publick welfare by exercising an influence in behalf of humanity and civilization, teaching the blessings of liberty regulated by law, and inculcating love and reverence for the great principles of government as derived from the inalienable rights of man to life, liberty, and the pursuit of happiness."

CAPITALS (¡THE DAZED BROWN FOX QUICKLY GAVE 12345–67890 JUMPS!)'

accents-and-such ¿But aren't Kafka's Schloß and Æsop's Œuvres often naïve vis-à-vis the dæmonic phœnix's official rôle in fluffy sou̇fflés?

As you might have noticed, the first marginal heading on this page was put on the wrong side the first time the document was typeset. This is however corrected the next time the document is typeset, and the xdoc package gave a warning about it at the end of the run.

4 An enriched index

The following index was automatically generated for copies of the files ltoutenc.dtx and cyoutenc.dtx to which had been added some extra markup. Most of that extra markup consisted of enccommand and enccomposite environments (the definitions of which can be found in Subsection 8.4 of xdoc2.dtx), but I also added a couple of \DescribeMacro and \describecsfamily commands where it seemed suitable.

Index

Numbers written in italic refer to the page where the corresponding entry is described; numbers underlined refer to the code line of the definition; numbers in roman refer to the code lines where the entry is used.

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OT4 encoding a-623
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e composite a-571
I composite a-549
i composite a-576
\i composite a-577
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l composite a-519
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O composite a-554
o composite a-584
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\~ a-234, a-458
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\i composite a-575
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\aa a-195, a-374, a-440
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A verbatim extract from the index (without docidx2e):

```
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  \subitem \texttt  {OT1} encoding\pfill \main{a-338}
  \subitem \texttt  {OT4} encoding\pfill \main{a-626}
  \subitem \texttt  {T1} encoding\pfill \main{a-412}
  \subitem \texttt  {T2A} encoding\pfill \main{b-22}
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\item \texttt  {\MetaNormalfont \PrintChar{092}\PrintChar{092}\meta  {enc}\PrintChar{092}\meta  {cmd}-\meta  {arg}}\pfill
             \usage{8}
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  \subitem \texttt  {OT1} encoding\pfill \main{a-339}
  \subitem \texttt  {OT4} encoding\pfill \main{a-627}
  \subitem \texttt  {T1} encoding\pfill \main{a-405}
    \subsubitem \texttt  {A} composite\pfill \main{a-539}
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    \subsubitem \texttt  {I} composite\pfill \main{a-550}
    \subsubitem \texttt  {i} composite\pfill \main{a-578}
    \subsubitem \texttt  {\PrintChar{092}i} composite\pfill
             \main{a-579}
    \subsubitem \texttt  {O} composite\pfill \main{a-555}
    \subsubitem \texttt  {o} composite\pfill \main{a-585}
    \subsubitem \texttt  {U} composite\pfill \main{a-560}
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\item \texttt  {\PrintChar{092}\PrintChar{124}}\pfill a-460
\item \texttt  {\PrintChar{092}\PrintChar{125}}\pfill a-253, a-462
\item \texttt  {\PrintChar{092}\PrintChar{126}}\pfill a-234, a-458
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  \subitem \texttt  {OT1} encoding\pfill \main{a-341}
  \subitem \texttt  {OT4} encoding\pfill \main{a-629}
  \subitem \texttt  {T1} encoding\pfill \main{a-406}
    \subsubitem \texttt  {A} composite\pfill \main{a-540}
    \subsubitem \texttt  {a} composite\pfill \main{a-566}
    \subsubitem \texttt  {N} composite\pfill \main{a-552}
    \subsubitem \texttt  {n} composite\pfill \main{a-582}
    \subsubitem \texttt  {O} composite\pfill \main{a-556}
    \subsubitem \texttt  {o} composite\pfill \main{a-586}
  \subitem \texttt  {T2A} encoding\pfill \main{b-16}
  \subitem \texttt  {T2B} encoding\pfill \main{b-16}
  \subitem \texttt  {T2C} encoding\pfill \main{b-16}
  \subitem \texttt  {X2} encoding\pfill \main{b-16}
```

A verbatim extract from the index (with docidx2e):

```
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\indexitem{1}{\texttt  {\PrintChar{092}\PrintChar{124}}}{9}{a\+460}{1}
\indexitem{1}{\texttt  {\PrintChar{092}\PrintChar{125}}}{9}{a\+253,
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\indexitem{1}{\texttt  {\PrintChar{092}\PrintChar{126}}}{9}{a\+234,
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  \indexitem{2}{\texttt  {OT4} encoding}{9}{\main{a\+629}}{2}
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    \indexitem{3}{\texttt  {A} composite}{9}{\main{a\+540}}{3}
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               a\+440}{1}
\indexitem{1}{\texttt  {\PrintChar{092}accent}}{9}{a\+71, a\+350,
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```

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