

The `blkcntrl` LaTeX package block control

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Abstract

Inserts hooks into certain block elements and footnotes. Also provides a command to set block quotations one size smaller than the main text.

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Part I

Discussion

1 General

This package has two purposes. First, it inserts several hooks into constructs in the standard document classes so that other packages can use the hooks. The *achicago*, *attrib*, *dialogue*, and *bits* packages in the **Frankenstein** bundle require *blkcntrl*. Second, *blkcntrl* offers one option itself that uses the hooks. The `smallblocks` option has the same effect as using `\smallblocks` in the preamble, for which see below. The `normalblocks` option means no `\smallblocks`, and is there simply for completeness.

FIX; using `smallblocks` option gives option clash when other packages require *blkcntrl*. Do thorough review of option passing.

`\smallblocks` When `\smallblocks` is declared in the preamble, footnotes and the block elements `quote`, `quotation`, and `verse` are set one size smaller (i.e., `\relsize{-1}`).

`\normalblocks`

2 Programmers' interface

`\PreChunk`
`\PreQuote`
`\PreQuotation`
`\PreVerse`
`\PreFootnote`

Part II

Implementation

3 Version control

```
\fileinfo These definitions must be the first ones in the file.
\DoXUsepackage 1 \def\fileinfo{block control}
\HaveECitationS 2 \def\DoXPackageS {}
\fileversion 3 \def\fileversion{v1.2}
\filedate 4 \def\filedate{2001/08/31}
\docdate 5 \def\docdate{2001/08/31}
\PPOptArg 6 \edef\PPOptArg {%
7 \filedate\space \fileversion\space \fileinfo
8 }
```

If we're loading this file from a `\ProcessDTXFile` command (see the *compsci* package), then `\JusTLoADInformatioN` will be defined; otherwise we assume it is not (that's why the FunkY NamE).

If we're loading from `\ProcessDTXFile`, we want to load the packages listed in `\DoXPackageS` (needed to typeset the documentation for this file) and then bail out. Otherwise, we're using this file in a normal way as a package, so do nothing. `\DoXPackageS`, if there are any, are declared in the `dtx` file, and, if you're reading the typeset documentation of this package, would appear just above. (It's OK to call `\usepackage` with an empty argument or `\relax`, by the way.)

```
9 \makeatletter% A special comment to help create bst files. Don't change!
10 \@ifundefined{JusTLoADInformatioN} {%
11   }{% ELSE (we know the compsci package is already loaded, too)
12   \Undefined\JusTLoADInformatioN
13   \SaveDoXVarS
14   \eExpand\csname DoXPackageS\endcsname\In {%use \csname in case it's undefined
15     \usepackage{#1}%
16   }%
17   \RestoreDoXVarS
18   \makeatother
19   \endinput
20 }% A special comment to help create bst files. Don't change!
```

Now we check for L^AT_EX₂ ϵ and declare the LaTeX package.

```
21 \NeedsTeXFormat{LaTeX2e}
22 \ProvidesPackage{blkcntrl}[\PPOptArg]
```

4 Requirements

```
23 \RequirePackage{moredefs,relsize}
```

5 Options

```
\normalblocks
\smallblocks 24 \DeclareBooleanUserOptions{smallblocks}{normalblocks}
\if@smallblocks@ 25 \@onlypreamble\smallblocks
\@smallblocks@true
\@smallblocks@false
```

```

26 \@onlypreamble\normalblocks
27 \ExecuteOptions{normalblocks}
28 \ProcessOptions

```

6 General get-control hook hacks

`\if@in@footnote@` Additions to these hooks should be made with `\addto@macro`. Deletions should be accomplished by scoping.

`\@in@footnote@true` I think macros are much more convenient as hooks than tokens. I use the prefixes `Pre` or `Post`. We want to add a hook to the usual definition here, to gain some control over relative sizing in footnotes.

```

\@in@footnote@false
\PreFootnote
\PreChunk
\PreQuote
\PreQuotation
\PreVerse
29 \newboolean{@in@footnote@}
30 \newcommand\PreFootnote {%
31   \@in@footnote@true
32 }
33 \ReserveCS\PreChunk
34 \newcommand\PreQuote {%
35   \PreChunk
36 }
37 \newcommand\PreQuotation {%
38   \PreChunk
39 }
40 \newcommand\PreVerse {%
41   \PreChunk
42 }

```

`\@makefn` All we're doing is adding the `\PreFootnote` hook.

```

43 \defcommand\@makefn [1] {%
44   \setlength\parindent{\@ne em}%
45   \noindent
46   \hb@xt@ 1.8em{\hss\@makefnmark}%
47   {\PreFootnote #1}%
48 }

```

`verse` Again all we're doing to these environments is adding the hooks.

`quotation` The hook cannot be put into the second argument, which is called before the paragraph preceding the environment has been ended (unless the environment started a new one).

```

49 \renewenvironment{verse}
50   {\let\\\@centercr
51   \relax\list{}{\setlength{\itemsep}{\z@}%
52     \setlength{\itemindent}{-1.5em}%
53     \setlength{\listparindent}{\itemindent}%
54     \setlength{\rightmargin}{\leftmargin}%
55     \addtolength{\leftmargin}{1.5em}}%
56   \item\relax\PreVerse\relax}
57   {\endlist}
58 \renewenvironment{quotation}
59   {\list{}{\setlength{\listparindent}{1.5em}%
60     \setlength{\itemindent}{\listparindent}%
61     \setlength{\rightmargin}{\leftmargin}%
62     \setlength{\parsep}{\z@ \@plus\p@}}%

```

```

63         \item\relax\PreQuotation\relax}
64     {\endlist}
65 \renewenvironment{quote}
66     {\list{}{\setlength{\rightmargin}{\leftmargin}}%
67     \item\relax\PreQuote\relax}
68     {\endlist}

69 \AtBeginDocument {%
70     \if@smallblocks@
71     \addto@macro\PreChunk {%
72     \if@in@footnote@
73     \else
74     \relsize{-1}%
75     \fi
76     }%
77     \fi
78 }

```

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