

# The classlist package

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## Abstract

This package records the loaded classes and stores them in a list.

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## 1 Documentation

### 1.1 Background

This packages is an answer of a newsgroup question:

```
Newsgroup:   comp.text.tex
Subject:     Finding the Document Class
From:        Herber Schulz
Date:        18 Jun 2005 13:16:49 -0500
Message-ID:  <herbs-D55DB9.13170418062005@news.isp.giganews.com>
```

### 1.2 Usage

Load this package before `\documentclass`:

```
\RequirePackage{classlist}
\documentclass[some,options]{whatever}
```

It then records the classes with options.

If used after `\documentclass`, `\@filelist` is parsed for classes. The additional data specified options and requested version is no longer available here.

`\MainClass` contains the first loaded class.

`\ClassList` stores the class entries, eg.

```

\ClassList → \ClassListEntry{myarticle}{a4paper}{}
\ClassListEntry{article}{}{}

```

`\ClassListEntry` has three arguments:

- #1: class name
- #2: options given in `\documentclass/\LoadClass`
- #3: requested version, not the version of class

`\PrintClassList` prints the list on screen it can be configured by

`\PrintClassListTitle` for the title and

`\PrintClassListEntry` for formatting the entries. See the implementation how to use these.

## 2 Implementation

```

1 (*package)
Package identification.
2 \NeedsTeXFormat{LaTeX2e}
3 \ProvidesPackage{classlist}%
4   [2006/02/20 v1.2 Record loaded classes (HO)]
5 \let\ClassList\@empty
6 \let\MainClassName\relax
Test, whether we are called before \documentclass.
7 \ifx\@classoptionslist\relax
8   \let\CL@org@fileswith@pti@ns\@fileswith@pti@ns
9   \def\@fileswith@pti@ns#1[#2]#3[#4]{%
#1: \@clsextension
#2: options of \documentclass/\LoadClass
#3: class name
#4: requested version
10    \ifx#1\@clsextension
11      \@ifl@aded#1{#3}{%
12        \PackageInfo{classlist}{%
13          Skipping class ‘#3’, because\MessageBreak
14          this class is already loaded%
15        }%
16      }%
17      \ifundefined{MainClassName}{%
18        \def\MainClassName{#3}%
19      }{}%
20      \@temptokena\expandafter{%
21        \ClassList
22        \ClassListEntry{#3}{#2}{#4}%
23      }%
24      \edef\ClassList{\the\@temptokena}%
25    }%
26  \fi
27  \CL@org@fileswith@pti@ns{#1}[{#2}]{#3}[{#4}]%
28 }
29 \let\@fileswith@pti@ns\@fileswith@pti@ns
30 \else
Called after \documentclass.
31 \PackageInfo{classlist}{Use \string\@filelist\space method}%
32
33 \let\ClassListEntry\relax
34 \expandafter\def\expandafter\CL@test
35   \expandafter#\expandafter1\@clsextension#2\@nil{%

```

```

36     \ifx\\#2\\%
Name does not contain \@clsextension
37     \else
38         \expandafter\CL@test@i\CL@entry\@nil
39     \fi
40 }%
41 \expandafter\def\expandafter\CL@test@i
42     \expandafter#\expandafter1\@clsextension#2\@nil{%
43     \ifx\\#2\\%
44         \@ifundefined{opt@\CL@entry}{%
45         }{%
46         \@ifundefined{MainClassName}{%
47             \let\MainClassName\CL@entry
48         }{%
49         }%
50         \edef\ClassList{%
51             \ClassList
52             \ClassListEntry{\CL@entry}{\}%
53         }%
54     }%
55     \else
Names with more than one \@clsextension are not supported.
56     \fi
57 }
58 \@for\CL@entry:=\@filelist\do{%
59     \expandafter\expandafter\expandafter\CL@test\expandafter
60         \CL@entry\@clsextension\@nil
61 }%
62 \fi

\PrintClassListEntry

63 \providecommand*\PrintClassListEntry}[3]{%
64     \toks@{* #1}%
65     \typeout{\the\toks@}%
66 }

\PrintClassListTitle

67 \providecommand*\PrintClassListTitle{%
68     \typeout{Class list:}%
69 }

\PrintClassList

70 \providecommand*\PrintClassList{%
71     \begingroup
72     \let\ClassListEntry\PrintClassListEntry
73     \PrintClassListTitle
74     \ClassList
75 \endgroup
76 }

\CL@InfoEntry

77 \def\CL@InfoEntry#1#2#3{%
78     \advance\count@ by \@ne
79     \def\x{#2}%
80     \@onelevel@sanitize\x
81     \edef\CL@Info{%
82         \CL@Info
83         \noexpand\MessageBreak
84         (\the\count@) %
85         #1 [\x]%
86     \ifx\\#3\\%

```

```

87     \else
88         \space[#3]%
89     \fi
90 }%
91 }

92 \AtBeginDocument{%
93     \begingroup
94         \count@=\z@
95         \def\CL@Info{Class List:}%
96         \let\ClassListEntry\CL@InfoEntry
97         \ClassList
98         \let\on@line\@empty
99         \PackageInfo{classlist}{\CL@Info}
100     \endgroup
101 }
102 \</package>

```

## 3 Installation

**CTAN.** This package is available on CTAN<sup>1</sup>:

[CTAN:macros/latex/contrib/oberdiek/classlist.dtx](#) The source file.

[CTAN:macros/latex/contrib/oberdiek/classlist.pdf](#) Documentation.

**Unpacking.** The `.dtx` file is a self-extracting `docstrip` archive. The files are extracted by running the `.dtx` through plain- $\mathrm{T}_{\mathrm{E}}\mathrm{X}$ :

```
tex classlist.dtx
```

**TDS.** Now the different files must be moved into the different directories in your installation TDS tree (also known as `texmf` tree):

```

classlist.sty → tex/latex/oberdiek/classlist.sty
classlist.pdf → doc/latex/oberdiek/classlist.pdf
classlist.dtx → source/latex/oberdiek/classlist.dtx

```

If you have a `docstrip.cfg` that configures and enables `docstrip`'s TDS installing feature, then some files can already be in the right place, see the documentation of `docstrip`.

**Refresh file databases.** If your  $\mathrm{T}_{\mathrm{E}}\mathrm{X}$  distribution (`te $\mathrm{T}_{\mathrm{E}}\mathrm{X}$` , `mik $\mathrm{T}_{\mathrm{E}}\mathrm{X}$` , ...) rely on file databases, you must refresh these. For example, `te $\mathrm{T}_{\mathrm{E}}\mathrm{X}$`  users run `texhash` or `mktextlsr`.

### 3.1 Some details for the interested

**Attached source.** The PDF documentation on CTAN also includes the `.dtx` source file. It can be extracted by AcrobatReader 6 or higher. Another option is `pdftk`, e.g. unpack the file into the current directory:

```
pdftk classlist.pdf unpack_files output .
```

---

<sup>1</sup><http://ftp.ctan.org/tex-archive/>

**Unpacking with L<sup>A</sup>T<sub>E</sub>X.** The .dtx chooses its action depending on the format:

**plain-T<sub>E</sub>X:** Run docstrip and extract the files.

**L<sup>A</sup>T<sub>E</sub>X:** Generate the documentation.

If you insist on using L<sup>A</sup>T<sub>E</sub>X for docstrip (really, docstrip does not need L<sup>A</sup>T<sub>E</sub>X), then inform the autodetect routine about your intention:

```
latex \let\install=y\input{classlist.dtx}
```

Do not forget to quote the argument according to the demands of your shell.

**Generating the documentation.** You can use both the .dtx or the .drv to generate the documentation. The process can be configured by the configuration file ltxdoc.cfg. For instance, put this line into this file, if you want to have A4 as paper format:

```
\PassOptionsToClass{a4paper}{article}
```

An example follows how to generate the documentation with pdfL<sup>A</sup>T<sub>E</sub>X:

```
pdflatex classlist.dtx
makeindex -s gind.ist classlist.idx
pdflatex classlist.dtx
makeindex -s gind.ist classlist.idx
pdflatex classlist.dtx
```

## 4 History

[2005/06/19 v1.0]

- First published version (comp.text.tex, CTAN).

[2005/06/19 v1.1]

- After \documentclass the package looks at \@filelist instead of aborting with error.

[2006/02/20 v1.2]

- DTX framework.
- Fix for \@@fileswith@pti@ns.

## 5 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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