

The classlist package

Heiko Oberdiek*

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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>
```

*Please report any issues at <https://github.com/ho-tex/oberdiek/issues>

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.

`\MainClassName` 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 [2016/05/16 v1.5 Record classes used in a document (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@ptions{#1} [{#2}] {#3} [{#4}]%
28 }%
29 \let\@@fileswith@ptions\@fileswith@ptions
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]% hash-ok
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

3.1 Download

Package. This package is available on CTAN¹:

[CTAN:macros/latex/contrib/oberdiek/classlist.dtx](https://ctan.org/ctan/packages/macros/latex/contrib/oberdiek/classlist.dtx) The source file.

[CTAN:macros/latex/contrib/oberdiek/classlist.pdf](https://ctan.org/ctan/packages/macros/latex/contrib/oberdiek/classlist.pdf) Documentation.

Bundle. All the packages of the bundle ‘oberdiek’ are also available in a TDS compliant ZIP archive. There the packages are already unpacked and the documentation files are generated. The files and directories obey the TDS standard.

[CTAN:install/macros/latex/contrib/oberdiek.tds.zip](https://ctan.org/ctan/packages/install/macros/latex/contrib/oberdiek.tds.zip)

TDS refers to the standard “A Directory Structure for \TeX Files” ([CTAN:pkg/tds](https://ctan.org/ctan/packages/pkg/tds)). Directories with `texmf` in their name are usually organized this way.

¹[CTAN:pkg/classlist](https://ctan.org/ctan/packages/pkg/classlist)

3.2 Bundle installation

Unpacking. Unpack the `oberdiek.tds.zip` in the TDS tree (also known as `texmf` tree) of your choice. Example (linux):

```
unzip oberdiek.tds.zip -d ~/texmf
```

3.3 Package installation

Unpacking. The `.dtx` file is a self-extracting `docstrip` archive. The files are extracted by running the `.dtx` through plain `TEX`:

```
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`.

3.4 Refresh file name databases

If your `TEX` distribution (`TEX Live`, `MiKTEX`, ...) relies on file name databases, you must refresh these. For example, `TEX Live` users run `texhash` or `mktexlsr`.

3.5 Some details for the interested

Unpacking with L^AT_EX. The `.dtx` chooses its action depending on the format:

plain T_EX: Run `docstrip` and extract the files.

L^AT_EX: Generate the documentation.

If you insist on using L^AT_EX for `docstrip` (really, `docstrip` does not need L^AT_EX), 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^AT_EX:

```
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: CTAN and newsgroup `comp.text.tex`: “[Re: Finding the Document Class](#)”²

[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`.

[2008/08/11 v1.3]

- Code is not changed.
- URLs updated.

[2011/10/17 v1.4]

- Documentation fix: `\MainClass` → `\MainClassName`.

[2016/05/16 v1.5]

- Documentation updates.

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; plain numbers refer to the code lines where the entry is used.

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²Url: <https://groups.google.com/group/comp.text.tex/msg/8ee9523c2dc13666>

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