

# 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>

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\*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    \@if@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 \end{package}

```

## 3 Installation

### 3.1 Download

**Package.** 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.

**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](#)

*TDS* refers to the standard “A Directory Structure for T<sub>E</sub>X Files” ([CTAN:tds/tds.pdf](#)). Directories with `texmf` in their name are usually organized this way.

### 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
```

**Script installation.** Check the directory `TDS:scripts/oberdiek/` for scripts that need further installation steps. Package `attachfile2` comes with the Perl script `pdfatfi.pl` that should be installed in such a way that it can be called as `pdfatfi`. Example (linux):

```
chmod +x scripts/oberdiek/pdfatfi.pl
cp scripts/oberdiek/pdfatfi.pl /usr/local/bin/
```

---

<sup>1</sup><http://ctan.org/pkg/classlist>

### 3.3 Package installation

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

```
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.

### 3.4 Refresh file name databases

If your  $\text{T}_{\text{E}}\text{X}$  distribution (te $\text{T}_{\text{E}}\text{X}$ , mi $\text{T}_{\text{E}}\text{X}$ , ...) relies on file name databases, you must refresh these. For example, te $\text{T}_{\text{E}}\text{X}$  users run `texhash` or `mktextlsr`.

### 3.5 Some details for the interested

**Unpacking with  $\text{L}^{\text{A}}\text{T}_{\text{E}}\text{X}$ .** The `.dtx` chooses its action depending on the format:

**plain  $\text{T}_{\text{E}}\text{X}$ :** Run docstrip and extract the files.

**$\text{L}^{\text{A}}\text{T}_{\text{E}}\text{X}$ :** Generate the documentation.

If you insist on using  $\text{L}^{\text{A}}\text{T}_{\text{E}}\text{X}$  for docstrip (really, docstrip does not need  $\text{L}^{\text{A}}\text{T}_{\text{E}}\text{X}$ ), 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 pdf $\text{L}^{\text{A}}\text{T}_{\text{E}}\text{X}$ :

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

## 4 Catalogue

The following XML file can be used as source for the  [\$\text{T}\_{\text{E}}\text{X}\$  Catalogue](#). The elements `caption` and `description` are imported from the original XML file from the Catalogue. The name of the XML file in the Catalogue is `classlist.xml`.

```
103 <?catalogue>
104 <?xml version='1.0' encoding='us-ascii'?>
105 <!DOCTYPE entry SYSTEM 'catalogue.dtd'>
106 <entry datestamp='$Date$' modifier='$Author$' id='classlist'>
```

```

107 <name>classlist</name>
108 <caption>Record classes used in a document.</caption>
109 <authorref id='auth:oberdiek' />
110 <copyright owner='Heiko Oberdiek' year='2005,2006,2008,2011' />
111 <license type='lppl1.3' />
112 <version number='1.5' />
113 <description>
114   Load this package before \documentclass:
115   <p/>
116   &nbsp;&nbsp;&nbsp;<tt>\RequirePackage{classlist}</tt><br/>
117   &nbsp;&nbsp;&nbsp;<tt>\documentclass[some,options]{whatever}</tt>
118   <p/>
119   After doing this, <tt>\MainClass</tt> contains the name of the
120   first loaded class, <tt>\ClassList</tt> contains a set of triples
121   &lt;class name>, &lt;options directly requested>, and
122   &lt;version requested>. (The package may also be loaded after
123   <tt>\documentclass</tt>, in which case some information is not
124   available.)
125   <p/>
126   The package is part of the <xref refid='oberdiek'>oberdiek</xref>
127   bundle.
128 </description>
129 <documentation details='Package documentation'
130   href='ctan:/macros/latex/contrib/oberdiek/classlist.pdf' />
131 <ctan file='true' path='/macros/latex/contrib/oberdiek/classlist.dtx' />
132 <miktex location='oberdiek' />
133 <texlive location='oberdiek' />
134 <install path='/macros/latex/contrib/oberdiek/oberdiek.tds.zip' />
135 </entry>
136 </catalogue>

```

## 5 History

### [2005/06/19 v1.0]

- First published version: CTAN and newsgroup [comp.text.tex](#): “[Re: Finding the Document Class](#)”<sup>2</sup>

### [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.

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

[2016/05/16 v1.5]

- Documentation updates.

## 6 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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