

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 [2008/08/11 v1.3 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
```



```

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](#) 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_EX 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/
```

¹<ftp://ftp.ctan.org/tex-archive/>

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 (`te \TeX` , `mik \TeX` , ...) relies on file name databases, you must refresh these. For example, `te \TeX` users run `texhash` or `mktexlsr`.

3.5 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 .
```

Unpacking with \LaTeX . The `.dtx` chooses its action depending on the format:

plain \TeX : Run `docstrip` and extract the files.

\LaTeX : Generate the documentation.

If you insist on using \LaTeX for `docstrip` (really, `docstrip` does not need \LaTeX), 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 \LaTeX` :

```
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

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

[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.

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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