

myfilist

List Infos on just the Files You Want to Know About*

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Abstract

`myfilist` addresses lazy file versions management, when you move your package or chapter files through various computers and various directories and after a while wonder where the most recent versions are.

Like Paul Ebermann's `dateiliste`,¹ `myfilist` varies \LaTeX 's `\listfiles` for listing file (especially version) informations. Differences to `dateiliste` and \LaTeX are:

1. You choose the files (and their order) to be listed;
2. indeed: this has very little to do with files used in typesetting some document;
3. output is just screen, `.log`, or a `.txt`-type file that you choose.

The code of this package was ready in spring 2008; in spring 2010 I presented it as a kind of study on improving `nicetext`'s² `txt-to- \LaTeX` processing after `nicetext v0.4` (aim was to do this without modifying the documented file, yet I did not obey this ruly strictly here). The new idea is adding `wiki.sty`'s “environments” feature to `makedoc` and `niceverb`'s “auto mode” in order to interpret `txt` comment indents in the package file, while `wiki.sty`'s `font` switching still is not compatible with `niceverb`'s. Easy script commands for achieving this are still missing (sorry; see the code in `myfilist.tex` that achieved the present formatting.)

*This file describes version `v0.7` of `myfilist.sty` as of 2012/10/25.

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¹<http://ctan.org/pkg/dateiliste>

²<http://ctan.org/pkg/nicetext>

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1 Installing

The file `myfilist.sty` is provided ready, installation only requires putting it somewhere where \TeX finds it (which may need updating the filename data base).³

2 File Info Header

```

1  \def \filename {myfilist.sty} %% macro package for LaTeX,
2
3  %% modifies \listfiles to choose files to be listed and
4  %% list them in a chosen file.
5
6  \def \fileversion {0.7}      \def \filedate {2012/10/25}
7
8  %% copyright (C) 2008, 2010, 2011, 2012 Uwe Lueck,
9  %% http://www.contact-ednotes.sty.de.vu
10 %% -- author-maintained in the sense of LPPL below.
11 %%
12 %% This file can be redistributed and/or modified under
13 %% the terms of the LaTeX Project Public License; either
14 %% version 1.3a of the License, or any later version.
15 %% The latest version of this license is in
16 %%      http://www.latex-project.org/lppl.txt
17 %% We did our best to help you, but there is NO WARRANTY.
18 %%
19 %% Please report bugs, problems, and suggestions via
20 %%
21 %%      http://www.contact-ednotes.sty.de.vu
22 %%
```

³<http://www.tex.ac.uk/cgi-bin/texfaq2html?label=inst-wlcf>

3 Usage

Write a script file like `gather.tex` which you should have received together with `myfilist.sty`. We use L^AT_EX 2_ε (required!), yet (in general) not for typesetting a document, therefore the script file needn't contain `\documentclass`. `myfilist.sty` is loaded by

```
\RequirePackage{myfilist}
```

instead of `\usepackage{myfilist}`. Usually you don't want to have `myfilist.sty` in the list, so type

```
\EmptyFileList
```

next; or type it after some additional `\RequirePackage...` for packages you want to use but not list.

Next list the names of the files whose informations you want to get as arguments of

```
\ReadFileInfos or \ReadPackageInfos or \ReadClassInfo
```

With the latter two, you can omit “.sty” or “.cls” as with `\usepackage` and `\documentclass`. With the first one, the file name extension “.tex” may be omitted. The two first commands accept lists with commas as separators almost like with `\usepackage` (currently we must use “%” to hide a line break in the script, and there must be no spaces in the list).—For more details on these commands, please see `readprov.pdf`.

The list of files is actually printed in the transcript `.log` and on screen on

```
\ListInfos
```

The list can additionally be written into a plain text file,

```
\ListInfos[filelist.txt]
```

as an example; i.e., you can use the brackets to tell which file is to contain your list of files. The file informations appear in the order of their names in your script file.

`\ListInfos` concludes, ends the job, anything following in the script file will be ignored.—All of this requires that you *run* `gather.tex` or your other script file, about as

```
latex gather
```

To list files that were loaded earlier in a different order, list them in an *optional argument* of `\EmptyFileList`, e.g.,

```
\EmptyFileList[myfilist.sty,readprov.sty]
```

Note: `myfilist.sty` (in its present state) is unable to list files that don't contain `\ProvidesPackage`, `\ProvidesClass`, or `\ProvidesFile`. `myfilist.sty` “loads”

files to extract version informations, but quits them as soon as it has found one of these $\text{\LaTeX 2}_{\epsilon}$ commands.

4 Variants

v0.5 provides different interfaces to reduce (shared) \TeX code when (similar) shell or batch scripts generate that `gather.tex`.

```
\ReadListFileInfos[<txt-file>]{<tex-files>}
```

is a shorthand for

```
\ReadFileInfos{<tex-files>}
\ListInfos[<txt-file>]
```

Without the optional argument, the screen output is *not* written to disk—by default. However, preceding `\ReadListFileInfos` by

```
\WriteFileInfosTo{<txt-file>}
```

is an alternative way to get the list in the plain text file.

```
\FindReadListFileInfos[<txt-file>]{<tex-files>}
```

must be used rather than `\ReadListFileInfos` when the comma-separated list (generated by the “`find`” utility) *starts* with a comma. Alternatively,

```
\UseFindUtility
```

preceding `\ReadListFileInfos` deals with the leading comma.

v0.7 adds

```
\NoStopListInfos[filelist.txt]
```

after which the script can continue until `\stop`, e.g., for checks with `filedate.sty` so that the latter’s messages are the final lines you see on screen.

5 Tricks, Package Option

v0.6 first provides (e.g.)

```
\FileListRemark[----]{---DOC.---}
```

in order to insert `---DOC.---
---` in the list. This writes funny files that may be somewhat dangerous ... I have used a bash script version of this for structuring large file lists.

v0.6 moreover provides two hooks and a package option useful for the `ad hoc`-`filelist` package, or perhaps even otherwise.

`\ListGenerator`

is a hook for the final lines in the plain text output file (see implementation).

`\NoBottomLines`

suppresses final messages of the L^AT_EX run, which may be nicer and more informative on the screen. Package Option

`[no-bot]`

is a kind of shorthand to issue `\NoBottomLines`.

6 Implementation

```

23 \NeedsTeXFormat{LaTeX2e}[1994/12/01] %% \newcommand* etc.
24 \ProvidesPackage{myfilist}
25     [\filedate\space v\fileversion \space
26     \string\listfiles\space-- mine only (UL)]

\ReadFileInfos, \ReadPackageInfos, and \ReadClassInfo are imple-
mented in readprov.sty:

27 \RequirePackage{readprov}[2010/11/26]

\EmptyFileList[\read-again-files]

28 \newcommand{\EmptyFileList}[1][]{%
29     \let\@filelist\@gobble
30     \@for\@tempa:=#1\do{%
31         \global \expandafter \let \csname ver@\@tempa\endcsname \relax
32         %% v0.4:
33         \global \expandafter \let \csname opt@\@tempa\endcsname \relax}}

\ListInfos[\output-file]

34 \newcommand*\ListInfos[1][]{%
35     \ifx$#1$\@dofilelist\else
36         % \newwrite\file@of@filelist           %% mv. v0.6
37         \immediate\openout\file@of@filelist=#1\relax
38         \def\typeout##1{%
39             \read@\typeout{##1}%
40             \immediate\write\file@of@filelist{##1}}%
41         \@dofilelist
42         %% made at:
43         \@tempcnta\time      \@tempcntb\@tempcnta
44         \divide\@tempcnta 60 \count@\@tempcnta
45         \multiply\count@ 60 \advance\@tempcntb -\count@
46         \typeout{ List made at
47             \the\year/\two@digits{\the\month}/\two@digits{\the\day},
48             \two@digits{\the\@tempcnta}:\two@digits{\the\@tempcntb}%

```

v0.6 becomes more flexible here:

```

49      \ListGenerator}
50      \immediate\closeout\file@of@filelist
51      \fi
52      \stop}
53      %% <- TODO how to suppress first empty line? 2008/03/16
54      \newwrite\file@of@filelist          %% mv. v0.6

```

emulating versions before v0.6:

```

55      \providecommand*\ListGenerator{%
56          ^^J from script file \jobname.tex^^J}
57      \let\read@typeout\typeout

```

`\NoStopListInfos[<output-file>]` (v0.7)

```

58      \newcommand*\NoStopListInfos[1][]{\let\stop\relax \ListInfos[#1]}

```

v0.5:

There is a little (design) bug in `\ListInfos`: When `gather.tex`'s last line is `\ListInfos` without optional argument or anything, \LaTeX prompts for further input. This might be fixed using `ifnextok.sty`, but I am not sure right now. In `\VarListInfos`, `\relax` stops waiting for input. `\providecommand` means that the default can be overridden before loading `myfilist.sty`:

```

59      \providecommand*\VarListInfos{\ListInfos\relax}

\WriteFileInfosTo{<txt-file>} overrides the previous default:

60      \newcommand*\WriteFileInfosTo[1]{%
61          \renewcommand\VarListInfos{\ListInfos[#1]}

\ReadListFileInfos[<txt-file>]{<tex-files>}

62      \newcommand*\ReadListFileInfos[2][]{%
63          \ifx$#1$\else\WriteFileInfosTo{#1}\fi
64          \read@comma@guard\read@list@file@infos#2\stop}
65      \let\read@comma@guard\empty
66      \def\read@list@file@infos#1\stop{%

```

Here `\VarListInfos` is used finally:

```

67      \ReadFileInfos{#1}\VarListInfos}

\UseFindUtility activates \read@comma@guard in order to kill a leading
comma:

```

```

68      \newcommand*\UseFindUtility{%
69          \let\read@comma@guard\@firstoftwo}

\FindReadListFileInfos[<txt-file>]{<tex-files>}

70      \newcommand*\FindReadListFileInfos{%
71          \UseFindUtility\ReadListFileInfos}

```

v0.6:

`\FileListRemark[⟨info⟩]{⟨filename⟩}` \writes and reads a dummy file `⟨filename⟩` with `\Provides...` content `⟨info⟩` which is empty by default:

```

72 \newcommand*\FileListRemark[2][\{%
73   \immediate\openout\file@of@filelist#2
74   \immediate\write\file@of@filelist{%
75     \string\ProvidesFile{#2}[#1]}%
76   \immediate\closeout\file@of@filelist
77   \ReadFileInfos{#2}}

```

`\NoBottomLines`

```

78 \newcommand*{\NoBottomLines}{%
79   \let\STOP\stop \def\stop{\batchmode\STOP}}

```

Package option `[no-bot]`:

```

80 \DeclareOption{no-bot}{\NoBottomLines}
81 \ProcessOptions

```

Finally issuing `\listfiles` (already before v0.5):

```

82 \listfiles
83
84 \endinput
85
86 %% VERSION HISTORY
87 v0.1    2008/03/19  created file ‘‘readprov.sty’’
88          2008/03/23  smart file name separation, \ifx$ for \ifcat$
89          2008/05/22  typo ist -> it
90 v0.2    2010/04/03  renamed ‘‘myfiles.sty’’;
91          broke long lines etc. for doc
92 SENT TO CTAN -- declined
93 v0.2a   2010/04/08  undoubled \NeedsTeXFormat, copyright updated
94 v0.3    2010/11/26  split off from ‘‘myfiles.sty’’, opt. arg. for
95                    \EmptyFileList, doc. reworked
96          2010/11/27  some USAGE clarifications
97 v0.3a   2011/01/29  two empty lines commented out
98          2011/01/30  copyright updated
99 v0.4    2012/05/26  \EmptyFileList clears options
100 v0.5    2012/09/27  \ReadListFileInfos, \WriteFileList,
101                    \FindReadListInfos, \UseFindUtility
102 v0.6    2012/10/11  \FileListRemark, \ListGenerator,
103                    \NoBottomLines, [no-bot]
104 v0.6a   2012/10/12  adding \UseFindUtility and \FindReadListInfos
105                    in the history for v0.5
106 v0.7    2012/10/25  \NoStopListInfos
107

```

7 Example

‘gather.tex’ for the present bundle has been as follows. ‘filedate’ and ‘fdatechk’ refer to checking “date consistency” with the filedate package, at the same time as updating the “source file list” ‘SrcFILES.txt’ which is generated by

```
\NoStopListInfos[SrcFILES.txt]
```

Some entries refer to the nicetext bundle that has been used (“----USED.---”) to generate the documentation file ‘myfilist.pdf’.

```
\ProvidesFile{gather.tex}[2012/11/13 collect file infos]
\RequirePackage[no-bot]{myfilist}
\RequirePackage{dowith,filedate}
%\EqualityMessages \FileDateAutoChecks
%% <- OK except with \FileListRemark TODO 2012/11/11
\EmptyFileList[readprov.sty,myfilist.sty]
\FileListRemark[-----]{-RELEASE.---}
\ReadFileInfos{fileinfo.RLS}
\FileListRemark[-----]{-----USE.---}
\ReadPackageInfos{myfilist,readprov}
\FileListRemark[-----]{-----DOC.---}
\ReadFileInfos{myfilist,readprov}
\FileListRemark[-----]{-----USED.---}
\ReadFileInfos{makedoc.cfg}
\ReadPackageInfos{fifinddo,makedoc,niceverb}
\ReadFileInfos{README,fdatechk,gather}
\NoStopListInfos[SrcFILES.txt]
\input{fdatechk.tex}
\stop
```

As to ‘fdatechk.tex’:

```
\ProvidesFile{fdatechk.tex}[2012/11/13 filedate checks]
%% TODO shorter notation
\ModDates
%\EqualityMessages
\FileDateAutoChecks
\ReadFileInfos{fileinfo.RLS,
  readprov.sty,myfilist.sty,
  readprov,myfilist,
  gather,fdatechk}
\DatesDiffWarnings
\CheckDateOfToday{fileinfo.RLS}
```
