

nicefilelist.sty

`\listfiles` Alignment for Connoisseurs*

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Abstract

While `longnamefilelist.sty` improves L^AT_EX's `\listfiles` with respect to long base filenames only, `nicefilelist.sty` can keep separate columns for (i) date (ii) version, and (iii) “caption” (don't write caption text in date column), their alignment not being disturbed by short filename extensions such as `.fd`. This is achieved basing on the `monofill` package.

Thus `nicefilelist` is more “powerful” than `longnamefilelist`, the former however is an “extension” of the latter neither with respect to implementation nor with respect to user interface.

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*This document describes version [v0.1](#) of `nicefilelist.sty` as of 2012/03/23.

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1 Features and Usage

1.1 Relation to `longnamefilelist.sty`

`longnamefilelist.sty` equips `\listfiles` with an optional argument for the maximum number of characters in the base filename. By contrast, `nicefilelist` does not provide arguments for `\listfiles`, rather column widths for basename, extension, and version number are determined by *templates* using `monofill.sty`. As a “template” for doing this, see the initial settings in Sec. 2.2. (Such settings must precede the `\listfiles` command) So `nicefilelist`’s *user interface* (at present) does not *extend* `longnamefilelist`’s user interface.

Using `monofill` is a very different approach than the one of `longnamefilelist`. `nicefilelist` is more powerful than `longnamefilelist`, but is not based on it in any way. It does not make sense to load both packages, they just overwrite each other’s behaviour of `\listfiles`.

`longnamefilelist` may become “obsolete” by the present package, unless one finds that its version of `\listfiles` looks fine enough and it is easier to understand and to use than `nicefilelist`.

1.2 Installing and Calling

The file `nicefilelist.sty` is provided ready, installation only requires putting it somewhere where T_EX finds it (which may need updating the filename data base).¹

Below the `\documentclass` line(s) and above `\begin{document}`, you load `nicefilelist.sty` (as usually) by

```
\usepackage{nicefilelist}
```

Alternatively—e.g., for use with `myfilist` from the `fileinfo` bundle, see Sec. 1.3, or in order to include the `.cls` file in the list—you may load it by

```
\RequirePackage{nicefilelist}
```

before `\documentclass` or when you don’t use `\documentclass`.

1.3 Usage and Sample with `myfilist.sty`

In order to get a reduced and/or rearranged list of used files with the `myfilist` package, `nicefilelist.sty` must be loaded earlier than `myfilist.sty`. This is due to a kind of limitation of the latter, it *issues* `\listfiles` (TODO). Therefore `\listfiles` must be modified earlier—or *issued* earlier, in this case the `\listfiles` in `myfilist.sty` does nothing. The file `SrcFILES.txt` accompanying the distribution of `longnamefilelist`, e.g., can be generated by running the following file `srcfiles.tex` with L^AT_EX:

¹<http://www.tex.ac.uk/cgi-bin/texfaq2html?label=inst-wlcf>

```

\ProvidesFile{srcfiles.tex}[2012/03/23
                        file infos -> SrcFILEs.txt]
\RequirePackage{nicefilelist}
%% INSERT MODIFICATIONS OF INITIAL
%% 'nicefilelist'/'monofill' SETTINGS HERE!
\RequirePackage{myfilist}
%% documentation:
\ReadFileInfos{nicefilelist}
%% demonstration:
\ReadFileInfos{provonly.fd,wrong.prv,empty.f}
% \ReadFileInfos{utopia.xyz}
%% present file:
\ReadFileInfos{nicefilelist}
\ReadFileInfos{srcfiles}
\ListInfos[SrcFILEs.txt]

```

Note the lines where to place **custom** modifications of settings for alignment (Sec. 2.2) or failure displays (Sec. 2.3).

The previous code mentions the following files:

`provonly.fd` has a proper `\ProvidesFile` line without date, for seeing what happens in the date and version columns. It also was a test for the case that there are fewer characters than a date has, and there is no blank space.

`wrong.prv` has a `\ProvidesFile` line with wrong file name.

`empty.f` just is an empty file.

`utopia.xyz` is not present at all, you get an error when you remove the comment mark.

Moreover, my `.tex` files have dates, but not version numbers, so you see what happens then:

```

*File List*
nicefilelist.sty 2012/03/23 v0.1 more file list alignment (UL)
monofill.sty 2012/03/19 v0.1a monospace alignment (UL)
myfilist.sty 2011/01/30 v0.3a \listfiles -- mine only (UL)
readprov.sty 2010/11/27 v0.3 file infos without loading (UL)
nicefilelist.tex 2012/03/23 -- documenting nicefilelist.sty
provonly.fd -- -- -- -- such
wrong.prv * NOT FOUND *
empty.f * NOT FOUND *
srcfiles.tex 2012/03/23 -- file infos -> SrcFILEs.txt
*****

```

```

List made at 2012/03/23, 10:31
from script file srcfiles.tex

```

2 Implementation

2.1 Package File Header (Legalize)

```

1 \NeedsTeXFormat{LaTeX2e}[1994/12/01]
2 \ProvidesPackage{nicefilelist}[2012/03/23 v0.1
3     more file list alignment (UL)]
4
5 %% Copyright (C) 2012 Uwe Lueck,
6 %% http://www.contact-ednotes.sty.de.vu
7 %% -- author-maintained in the sense of LPPL below --
8 %%
9 %% This file can be redistributed and/or modified under
10 %% the terms of the LaTeX Project Public License; either
11 %% version 1.3c of the License, or any later version.
12 %% The latest version of this license is in
13 %% http://www.latex-project.org/lppl.txt
14 %% We did our best to help you, but there is NO WARRANTY.
15 %%
16 %% Please report bugs, problems, and suggestions via
17 %%
18 %% http://www.contact-ednotes.sty.de.vu
19 %%

```

2.2 Alignment Settings

We use the `monofill` package for alignment of plain text:

```

20 \RequirePackage{monofill}

```

See its documentation for details.

We support three alignment “fields” according to the terminology of `monofill`. Their ids are `[f-base]` for base filenames, `[f-ext]` for filename extensions, and `[f-version]` for the revision version id of a file as read from `\ProvidesFile`, `\ProvidesPackage`, or `\ProvidesClass` command in the file. Initial settings for them are following. For modifying them, load `nicefilelist.sty`, then type your own settings, then issue `\listfiles` or load `myfilist.sty`.

```

21 \MFfieldtemplate{f-base}{nicefilelist}
22 \MFfieldtemplate{f-ext}{tex}
23 \MFfieldtemplate{f-version}{v0.11a}

```

We are not supporting version numbers greater than 9 at present—sorry! ([TODO](#))

`\NFLspaceI`, `\NFLspaceII`, and `\NFLspaceIII` determine the space between the four columns for names, dates, versions, and “captions”:

```

24 \newcommand*{\NFLspaceI} { \space}
25 \newcommand*{\NFLspaceII} { \space}
26 \newcommand*{\NFLspaceIII}{ }

```

2.3 Failure Displays

`\NFLnodate` is displayed in place of a file date if it seems not to be given (configurable):

```
27 \newcommand*\NFLnodate}{ -- \space-- --}
```

`\NFLnversion` likewise—however, for alignment, each wanted space must be specified as `\space` (not just a code blank space). It may need adjustment (by `\renewcommand`) when `\MFfieldtemplate{f-version}` is modified:

```
28 \newcommand*\NFLnversion}{\space--}
```

`\NFLnotfound` is for files with wrong or no `\Provides...` command:

```
29 \newcommand*\NFLnotfound}{ * NOT FOUND *}
```

2.4 Redefining `\listfiles`

Similarly to original L^AT_EX, `\listfiles` carries almost everything that is needed for the file list only:

```
30 \renewcommand*\listfiles}{%
31 \let\listfiles\relax
```

—this clears memory. Now L^AT_EX requires that `\@listfiles` is defined, although we don’t use it (TODO use it in place of some `\NFL@...`):

```
32 \let\@listfiles\relax
```

`\@dofilelist` is executed by the standard L^AT_EX `\enddocument` macro or by `\ListInfos` from the `myfilist` package.

```
33 \def\@dofilelist{%
    "Title:"
34 \typeout{^^J \space\space
35 \MFfrightinfield{*File List*}{f-base}}%
36 \@for\@currname:=\@filelist\do{%
```

This starts the loop through the list of files

```
37 \filename@parse\@currname
38 \edef\filename@ext{%
39 \ifx\filename@ext\relax tex\else\filename@ext\fi}%
40 \expandafter\let\expandafter\NFL@ver
41 \csname ver@\filename@base.\filename@ext\endcsname
```

Some assignments for parsing file info, resembling L^AT_EX’s `\GetFileInfo`, to make life within `\typout{(?)}` easier:

```
42 \ifx\NFL@ver\relax \else
```

We assume that no date is given, until we find it; likewise for version:

```

43      \let\NFL@date \NFLnodate
44      \let\NFL@version\NFLnoverion
45      \ifx\NFL@ver\@empty \else
46      \ifx\NFL@ver\space
47  %      \let\NFL@ver\@empty
48      \else

```

\NFL@words aims to be more careful than L^AT_EX's \GetFileInfo:

```

49      \expandafter \NFL@words \NFL@ver
50      \@gobble? \@gobble? \@gobble?\@gobble?%

```

\filedate is not empty at the present condition, let's see if it starts with a date:

```

51      \expandafter\NFL@test@date\filedate

```

Dummies in case \filedate has less elements than \NFL@test@date tries to read:

```

52      \@empty\@empty\@empty\@empty\@empty
53      \@empty\@empty\@empty\@empty
54      \@nil
55      \if@tempwa
56      \let\NFL@date\filedate

```

Is \fileversion a version id?

```

57      \ifx\fileversion\@empty \else
58      \expandafter\NFL@test@version\fileversion\@empty\@nil
59      \fi

```

Otherwise, the first word could be a version number—we ignore such awkward files in this package version (TODO) and even assume that no version is indicated.

```

60  %      \else
61      \fi
62      \fi
63      \fi

```

When \filedate is not a file date, it is considered part of the file “caption,” likewise for version:

```

64      \edef\fileinfo{%
65      \ifx\NFL@date\NFLnodate \filedate \space \fi
66      \ifx\NFL@version\NFLnoverion \fileversion \space \fi
67      \fileinfo}%
68      \fi
69      \typeout{%

```

Now all parsing and checking must be expandable.

```

70      \NFL@make@macro@arg\MFrightinfield\filename@base{f-base}.%
71      \NFL@make@macro@arg\MFleftinfield \filename@ext {f-ext}%
72      \NFLspaceI
73      \ifx\nFL@ver\relax
74      \NFLnotfound
75      \else
76      \NFL@date
77      \NFLspaceII      %% TODO conditionally?
78      \NFL@make@macro@arg\MFleftinfield\nFL@version {f-version}%
79      \NFLspaceIII      %% TODO conditionally?
80      \fileinfo
81      \fi
82  }%
83  }%

```

The line of stars:

```

84      \typeout{ \space\space\space
85      \MFrightinfield{*****}{f-base}^^J}%

```

TODO or more stars as with `longnamefilelist`?

```

86  }%

```

This finishes the definition of `\@dofilelist`. The definitions of macros called from `\@dofilelist` are following. `\NFL@words` tries to get the first three “words”:

```

87  \def\nFL@words##1 ##2 ##3\@gobble?{%
88      \edef\filedate{##1}\edef\fileversion{##2}\edef\fileinfo{##3}%

```

When the result of “`\csname␣ver@⟨file⟩\endcsname`” contains a single space token only, `\fileinfo` contains the result of expanding “`\@gobble?␣`”, as opposed to “`\@gobble?`” in other cases. Thus this “normalization”:

```

89      \ifx\fileinfo\space \let\fileinfo\empty \fi }%

```

`\NFL@test@date` checks whether the first “word” is a date:

```

90  \def\nFL@test@date##1##2##3##4##5##6##7##8##9{%
91      \@tempwatrue

```

Are there slashes at the correct positions?

```

92      \if/##5\else\@tempwafalse\fi
93      \if/##8\else\@tempwafalse\fi

```

Now we test the eight positions of expected digits:

```

94      \NFL@test@digits{##1##2##3##4##6##7##9}}%
95  \def\nFL@test@digits##1##2##3\@nil{%

```

It’s not a date if it has more than 10 characters ([TODO?](#)). If it *is* a date, #2 is the last digit, and #3 contains the dummies, and then?

```

96     \edef\@tempa{##3}%
97 %     \typein{##1}%
98     \ifx\@tempa\@empty \NFL@test@digit ##1##2\@nnil
99                               \else \@tempswafalse \fi }%
100 \def\nfl@test@digit##1{%
101     \ifx##1\@nnil \else
102         \ifnum'##1<48 \@tempswafalse
103     \else         \ifnum'##1>57 \@tempswafalse \fi
104     \fi
105 %     \typein{code of ##1 is \number'##1.}%
106     \if@tempswa
107         \expandafter\expandafter\expandafter \NFL@test@digit
108     \else
109         \expandafter\expandafter\expandafter \NFL@kill
110     \fi
111 \fi
112 }%
113 \def\nfl@kill##1\@nnil{%

```

[TODO](#) or use `coolstr?` or there may be *some* package that offers a test whether something is a date.

`\NFL@test@version` checks whether the second “word” is a version id:

```

114 \def\nfl@test@version##1##2##3\@nnil{%
115     \if v##1\nfl@test@digit##2\@nnil \else \@tempswafalse \fi
116     \if@tempswa \let\nfl@version\fileversion \fi
117 }%

```

`\NFL@make@macro@arg` expands a macro storing a list inside braces (perhaps `monofill` should offer such a thing [TODO](#)):

```

118 \def\nfl@make@macro@arg##1##2{\expandafter##1\expandafter{##2}}%
119 }

```

2.5 Leaving the Package File

```

120 \endinput

```

2.6 VERSION HISTORY

```

121 v0.1    2012/03/20    started
122         2012/03/22    almost ready
123         2012/03/23    debugging; \NFLspaceI etc.;
124                     documentation completed
125

```

3 Credit

It was MARTIN MUENCH who pointed out the shortcomings of `longnamefilelist` that the present package addresses—thanks!

4 Missing

The package once might provide `keyval`-style optional arguments for `\listfiles` or even call `\listfiles` automatically with `keyval` package options.