

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.

v0.7 offers a package option `[wrap]` for automatic word wrapping within the caption column (using the `hardwrap` package), so filenames and captions can be quite long without disturbing alignment.

As opposed to the `dateiliste` package, this is about the *plain text* output in the `.log` file or, with `myfilist`, as a stand-alone plain text file.

Related packages: Cf. `latexfileinfo-pkgs`.

Keywords: Package management, document management, plain text output

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*This document describes version **v0.7** of `nicefilelist.sty` as of 2012/10/30.

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1 Features and Usage

Additionally or also “complementarily” to the presentation given here, the functionality of the package is summarized in the file `latexfileinfo_pkgs.htm` from the `latexfileinfo-pkgs`, in a comparison with packages resembling `nicefilelist` in certain respects.

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

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

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

1.3 Calling

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

```
\usepackage{nicefilelist}
```

or by

```
\usepackage[⟨options⟩]{nicefilelist}
```

where `⟨options⟩` may be `r`, `wrap`, or `r,wrap` ...—see summaries in sections 1.4 and 2.4 on the package options and an example in Section 1.5.2. Alternatively—e.g., for use with `myfilist` from the `fileinfo` bundle (in a “`TeX` script”), see Section 1.5, or in order to include the `.cls` file in the list—you may load it by

```
\RequirePackage{nicefilelist}
```

or by

```
\RequirePackage[⟨options⟩]{nicefilelist}
```

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

1.4 Choosing Settings

1.4.1 The Columns, Their Widths, and Their “Missing” Content

The `nicefilelist` package considers the listing from ‘`\listfiles`’ a five-column table, the columns being (reserved for) (i) the base filename, (ii) the filename extension, (iii) the date, (iv) the version (or with option ‘`[r]`’: the release number, and (v) the caption of a `LaTeX` source file. The filename base column is right-adjusted, the other ones are left-adjusted. Date, version, and caption are made up from the `⟨f-info⟩` argument in

```
\Provides⟨f-type⟩{⟨f-base⟩.⟨f-ext⟩}[⟨f-info⟩]
```

where `⟨f-type⟩` is ‘`Class`’, ‘`Package`’, or ‘`File`’.

The fixed usual format ‘`YYYY/MM/DD`’ for the date is assumed; in fact, when `⟨f-info⟩` doesn’t start according to this format, it is assumed that no date is given, and some “missing” text will appear in the “date” column, determined by a macro `\NFLnodate`. The version number (or “string”) must follow in format ‘`v⟨digit⟩.⟨digits⟩`’, otherwise some “missing” text appears in the “version” column, determined by a macro `\NFLnoverion`. What remains is placed in the “caption” column. `\NFLnotfound` determines an alternative filling in the case that `⟨f-info⟩` cannot be obtained. See the default settings for these “failure” texts in Section 2.3.

The column widths for filename base and extension and the column width for version or release are determined using the `monofill` package. They have

“field identifiers” `\f-base`, `\f-ext`, and `\f-version` respectively. The respective widths are determined by templates `\longest` in

```
\MDfieldtemplate{\field-id}\{\longest\}
```

See Section 2.2 for the default settings. Probably only adjusting the width for *base* filenames is required in real life, see the example in Section 1.5.2.

The spaces between the columns are determined by macros `\NFLspaceI`, `\NFLspaceII`, and `\NFLspaceIII`, see Section 2.2 for the defaults.

1.4.2 The Caption Column

The width of the caption column (unfortunately) is determined by the stuff enumerated above and the width of the console output window or screen. With long filenames and long captions, the result may look poor. the *characters* that don’t fit into the line may continue at left end of the window or screen, disturbing the appearance of a “table”—unless you use package option `\wrap`. The latter requires the `hardwrap` package by Will Robertson and Kevin Godby (“not invented here”). This package tries to determine the screen width by some subtle tests, and until it finds something better, it assumes a width of 80 characters (I suppose). `hardwrap` does *word wrapping*, i.e., it doesn’t just put *characters* not fitting into the next line, but entire *words*. Moreover, it allows inserting some “newline sequence” before the first word that is too much, and we use this feature here to put the next word into the *caption column* rather than at the beginning of the next line. (Details and implementation are in Section 2.4.)

If you are not happy with the column width that `hardwrap` chooses, but want to assume your own width `\max-line-chars` (e.g., your width, measured by your doctor, divided by the width of one character), compute its difference `\max-line-chars-minus-one` to 1 (maybe by your electronic calculator, or an emulation, or a Lua script, cf. `lualatex-doc`, or by `bigintcalc`), and enter the `hardwrap` instruction

```
\setmaxprintline{\max-line-chars-minus-one}
```

when `hardwrap` or `nicefilelist` have been loaded *and* before the internal macro `\@dofilelist` is run (which happens at the end of the document or when `myfilist`’s `\ListInfos` is issued, for instance).

1.5 Usage and Samples with `myfilist.sty`

1.5.1 Basically

In order to get a reduced and/or rearranged list of file infos 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—first—distribution of `nicefilelist` was generated by running the following file `srcfiles.tex` with \LaTeX :

```
\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{proonly.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 (Section 2.2) or failure displays (Section 2.3).

The previous code mentions the following files:

`proonly.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
proonly.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
```

1.5.2 More Generally and Shorthand

In the above example, the `myfilist` command ‘`\EmptyFileList`’ was missing—it was not intended there. Usually however, it *is* intended, i.e., the following sequence of lines is wanted:

```
\RequirePackage[r]{nicefilefilelist}
\MFfielddtemplate{f-base}{\langle longest-name \rangle}
\RequirePackage{myfilist}
\EmptyFileList[\langle read-again-files \rangle]
```

Here you also see usage of package option `[r]` for release numbers and the adjustment

```
\MFfielddtemplate{f-base}{\langle longest-name \rangle}
```

according to Section 2.2.

With v0.5, the last three code lines in the snippet above can be replaced by

```
\MaxBaseEmptyList{\langle longest-name \rangle}[\langle read-again-files \rangle]
```

—“optionally” without ‘`[\langle read-again-files \rangle]`’. This may save the user from worrying about usage with `myfilist`.

`nicefilelist` formats file lists nicely even when base filenames have eight characters at most, what L^AT_EX’s original `\listfiles` was made for. v0.6 simplifies this case by a star version of `\MaxBaseEmptyList`:

```
\MaxBaseEmptyList*
```

works like `\MaxBaseEmptyList{nicefile}` (eight characters)—still, optional `[\langle read-again-files \rangle]` may follow. This feature is demonstrated with `inputtrc v/r0.3`.

1.5.3 Sample with Wrapped Caption Column

The most recent version of the accompanying ‘`SrcFILES.txt`’ contains the following:

```

      *File List*
-----RELEASE.---  --  --  --  --
nicefilelist.RLS    2012/10/30  r0.7  v0.7 [wrap] option
-----PACKAGE.---  --  --  --  --
nicefilelist.sty    2012/10/30  v0.7  more file list alignment (UL)
-----DOCSRC.---   --  --  --  --
nicefilelist.tex    2012/10/30  --    documenting nicefilelist.sty
srcfiles.tex        2012/10/30  --    file infos -> SrcFILES.txt
-----DEMO.---     --  --  --  --
provonly.fid        --  --  --  --    no date, no version, but a lot of info,
                                         look how that is wrapped!

      wrong.prv      * NOT FOUND *
      empty.f        * NOT FOUND *
-----USED.---      --  --  --  --
```

```

hardwrap.sty 2011/02/12 v0.2 Hard wrap messages
myfilist.sty 2012/10/25 v0.7 \listfiles -- mine only (UL)
readprov.sty 2012/03/20 v0.3b file infos without loading (UL)
fifinddo.sty 2012/08/27 v0.6 filtering TeX(t) files by TeX (UL)
makedoc.sty 2012/08/28 v0.52 TeX input from *.sty (UL)
niceverb.sty 2012/09/27 v0.5 minimize doc markup (UL)
texlinks.sty 2012/05/13 v0.6 TeX-related links (UL)
makedoc.cfg 2012/10/29 -- documentation settings
mdoccorr.cfg 2011/12/03 -- makedoc local typographical corrections
-not-so-much.--- -- -- -- -- --
kvsetkeys.sty 2009/07/30 v1.5 Key value parser with default handler
                                support (H0)

*****

```

```

List made at 2012/10/30, 20:12
from script file srcfiles.tex

```

This exemplifies

1. **wrapping** of ‘provonly.fd’'s and kvsetkeys.sty file info within the **caption** column using nicefilelist's ‘[wrap]’ option,
2. inserted “**comments**” from myfilist's ‘\FileListRemark’,
3. a file ‘nicefilelist.RLS’ for a **release summary**. This is to track what has happened most recently, whether the most recent release has been installed (system-wide), or (for me) whether most recent versions of package and documentation have been released. When such an ‘.RLS’ file is installed together with packages in the ‘tex’ subtree of a TDS, the release summary can be accessed quickly as a **terminal display** by one of the packages ltxfileinfo, latexfileversion, or typeoutfileinfo. One aim of the ‘[wrap]’ option is allowing longer “release captions” (looking fine in the package file list) than fit into a small part of a single line.

The above ‘SrcFILES.txt’ has been generated from the following version of the TeX script ‘srcfiles.tex’:

```

\ProvidesFile{srcfiles.tex}
    [2012/10/30 file infos -> SrcFILES.txt]
\RequirePackage[r,wrap]{nicefilelist}
\RequirePackage{filedate}
\MaxBaseEmptyList{nicefilelist}
    [nicefilelist.sty,%
    readprov.sty,myfilist.sty,%
    hardwrap.sty]
\FileListRemark[ -- ]{-----RELEASE.---}
\ReadFileInfo{nicefilelist.RLS}
\FileListRemark[ -- ]{-----PACKAGE.---}
\ReadPackageInfos{nicefilelist}

```

```

\FileListRemark[ -- ]{-----DOCSRC.---}
\ReadFileInfos{nicefilelist,srcfiles.tex}
\FileListRemark[ -- ]{-----DEMO.---}
\ReadFileInfos{provonly.fd,wrong.prv,empty.f}
%\ReadFileInfos{utopia.xxx}
%\FileListRemark[ -- ]{DOCUTILITIES.---}
%\FileListRemark[ -- ]{usedNICETEXT.---}
\FileListRemark[ -- ]{-----USED.---}
\ReadPackageInfos{hardwrap,
                  myfilist,readprov,
                  fifinddo,makedoc,niceverb,texlinks}
\ReadFileInfos{makedoc.cfg,mdoccorr.cfg}
\FileListRemark[ -- ]{-not-so-much.---}
\ReadPackageInfos{kvsetkeys}
%\NoStopListInfos[SrcFILES.txt]
%\EqualityMessages
\CheckDateOfPDFmod{nicefilelist.sty}
\CheckDateOfPDFmod{nicefilelist.tex}
\CheckDateOfPDFmod{nicefilelist.RLS}
\CheckDateOfPDFmod{srcfiles.tex}
%\stop
\NoBottomLines \ListInfos[SrcFILES.txt]

```

2 Implementation

2.1 Package File Header (Legalese)

```

1 \NeedsTeXFormat{LaTeX2e}[1994/12/01]
2 \ProvidesPackage{nicefilelist}[2012/10/30 v0.7
3     more file list alignment (UL)]
4 %% Copyright (C) 2012 Uwe Lueck,
5 %% http://www.contact-ednotes.sty.de.vu
6 %% -- author-maintained in the sense of LPPL below --
7 %%
8 %% This file can be redistributed and/or modified under
9 %% the terms of the LaTeX Project Public License; either
10 %% version 1.3c of the License, or any later version.
11 %% The latest version of this license is in
12 %% http://www.latex-project.org/lppl.txt
13 %% We did our best to help you, but there is NO WARRANTY.
14 %%
15 %% Please report bugs, problems, and suggestions via
16 %%
17 %% http://www.contact-ednotes.sty.de.vu
18 %%

```


2.2 Alignment Settings

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

```
19 \RequirePackage{monofill}[2012/10/29]
```

See its documentation for details. The `[wrap]` option provided by `nicefilelist` v0.7 requires `monofill` v0.2 as of 2012-10-29.

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`.

```
20 \MFfieldtemplate{f-base}{nicefilelist}
21 \MFfieldtemplate{f-ext}{tex}
22 \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”:

```
23 \newcommand*{\NFLspaceI} { \space}
24 \newcommand*{\NFLspaceII} { \space}
25 \newcommand*{\NFLspaceIII}{ }
```

2.3 Failure Displays

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

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

`\NFLnoversion` 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:

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

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

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

2.4 Package Options

v0.4 offers package option `[r]` that allows strings with `r` in place of `v`, for “release.” `\NFL@v@digit`’s definition therefore depends... we use `\@listfiles` for a “message” there. For the original restricted functionality, it expands to `\NFL@false`.

```
29 \def\@listfiles{\noexpand\NFL@false}
```

Package option `[r]` carries out another test instead. See the accompanying file `SrcFILES.txt` to see the effect. [TODO](#): update example!?

```
30 \DeclareOption{r}{%
31   \def\@listfiles{%
32     {\noexpand\NFL@ifx@kbl##1r%
33       {\noexpand\NFL@digits##2\noexpand\@nnil}%
34       \noexpand\NFL@false}%
35   }%
36 }
```

v0.7 offers package option `[wrap]` for automatical wrapping within the “captions” column, based on Will Robertson’s and Kevin Godby’s `hardwrap` package. The difference between this option and the functionality without is controlled by the macro `\NFL@filerow`. *Without* it expands to `\typeout`

```
37 \newcommand*{\NFL@filerow}{\typeout}
```

—`\let` doesn’t work with `myfilist`’s redefinition of `\typeout`. *With* `[wrap]`, `\NFL@filerow` applies `hardwrap`’s `\HardWrap`:

```
38 \DeclareOption{wrap}{%
39   \renewcommand*{\NFL@filerow}[1]{%
40     \HardWrap\typeout\hw@maxprintline\relax{^^J%
41       \MFrightinfield\space{f-base} %
42       \MFleftinfield \space{f-ext}}%
43     \NFLspaceI\@spaces\space\@spaces\space \NFLspaceII
44     \MFrightinfield\space{f-version}\NFLspaceIII}{%
45     #1}}%
```

Alignment of filenames with `hardwrap` seems to need

```
46 \renewcommand*{\MFfillelement}{\MFotherspace}
```

from `monospace v0.2`.

```
47 }
```

The display width is controlled by `hardwrap`’s counter `\hw@maxprintline`. Unless `hardwrap` finds something special, its content is 79, corresponding to a display width of 80 characters (I believe—counting the leftmost character as ‘0’, as editors like to do). You can choose a different content value *(max-char-col)* by `hardwrap`’s

```
\setmaxprintline{<max-char-col>}
```

```
48 \ProcessOptions
```

The next `\ifx` is to check whether `[wrap]` has been demanded and `hardwrap` is needed:

```
49 \ifx\NFL@filerow\typeout \else
50   \RequirePackage{hardwrap}
51 \fi
```

2.5 Safe Tests

For fairly safe tests, we briefly use an exotic version of `Q` (similarly to `ifmptarg` and `url`):

```
52 \catcode'\Q=7 \let\NFL@critterion=Q \catcode'\Q=11
```

It appears to me that expandable tests like the ones employed here never are perfectly safe; you only can say that it is safe with a source meeting certain conditions. `fifinddo` originally was made for “plain text,” to be read from files without assigning \TeX ’s special category codes. *Here* we assume that the source (text in `\Provides...` arguments) will never contain such a “funny `Q`”.

2.6 Redefining `\listfiles`

Similarly to original \LaTeX , `\listfiles` carries almost everything that is needed for the file list only. 2012-10-29: little point in this, perhaps, in that the package should be loaded when running `\listfiles` is intended—[TODO](#). Or maybe it is loaded *just in case*?

```
53 \renewcommand*{\listfiles}{%
54 \let\listfiles\relax
```

—this clears memory. Now \LaTeX doesn’t collect file names for `\listfiles` when `\@listfiles` is undefined, therefore

```
55 % \let\@listfiles\relax
```

... postponed for v0.4 ...

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

```
56 \def\@dofilelist{%
    "Title:"
57 \typeout{^^J          %% trick 2012/03/29 vv
58 \MFrightinfield{*File Lis}{f-base}t*}%
59 \@for\@currname:=\@filelist\do{%
```

This starts the loop through the list of files

```
60 \filename@parse\@currname
61 \edef\filename@ext{%
62 \ifx\filename@ext\relax tex\else\filename@ext\fi}%
```

Like \LaTeX ’s `\reserved@b`:

```
63 \expandafter\let\expandafter\@tempb
64 \csname ver@\filename@base.\filename@ext\endcsname
```

According to `source2e.pdf`, `\filename@area` may be a directory. Trying support of this seems to be a new feature with v0.2—not tested, [TODO](#)!

```
65 \edef\@tempa{\filename@area\filename@base}%
```

Actually I would like to be able to do even the filename parsing expandably—for all systems, `texsys.cfg`!?? [TODO](#)

```
66 \NFL@filerow{%
```

Now all parsing and checking must be expandable.

```
67 \NFL@make@macro@arg\MFrightinfield\@tempa {f-base}.%
68 \NFL@make@macro@arg\MFleftinfield \filename@ext{f-ext}%
69 \NFLspaceI
70 \NFL@ifx@kbl\@tempb\relax\NFLnotfound{%
71 \NFL@make@macro@arg\NFL@space@split\@tempb
72 \NFL@maybe@three
73 \NFL@date@or@rest
74 }%
75 }%
76 }%
```

The line of stars:

```
77 \typeout{ %% trick vvv 2012/03/29
78 \MFrightinfield{*****}{f-base}***^J}%
```

[TODO](#) or more stars as with `longnamefilelist`?

```
79 }%
```

This finishes the definition of `\@dofilelist`.

```
\NFL@make@macro@arg<cmd-1><cmd-2>
```

results in `<cmd-1>\{<t-list>\}` where `<t-list>` is the one-step expansion of `<cmd-2>`:

```
80 \def\NFL@make@macro@arg##1##2{\expandafter##1\expandafter{##2}}%
```

`\NFL@space@split{<token-list>}{<spaced>}{<unspaced>}` passes prefix and suffix as arguments to `<spaced>` if a space token is within `<token-list>`, otherwise `<unspaced>` gets the original `<token-list>` as single argument. The latter is useful here where `<token-list>` becomes visible only by an `\expandafter`. The following construction is discussed more generally in the `bitelist` package.

```
81 \def\NFL@space@split##1{%
82 \NFL@return@space@split##1\@nil: \NFL@criterion\@nil\@nil@{##1}}%
```

`\NFL@return@spaces@split` essentially has *three* parameters delimited by `_`, `\@nil`, and `\@nil` again.

```
83 \def\NFL@return@space@split##1 ##2\@nil##3\@nil@##4##5##6{%
84 \NFL@ifx@kbl\NFL@criterion{##2}}%
```

If `#2` is empty, `\NFL@ifx@kbl` (as of v0.3) compares `\NFL@criterion` (criterion indicating “unspaced”) with `\expandafter`. This only happens when the space is the last thing in `<token-list>`, and `<spaced>` is chosen correctly.

85 {##6{##4}}{##5{##1}{##2}}}%

`\NFL@ifx@kbl{<token>}{<maybe-token>}{<ifx>}{<unlessx>}` as of v0.3 should save some tokens, in some longer run, especially if we want to add nestings—cf. source2e.pdf for “Kabelschacht.”

86 \def\nfl@ifx@kbl##1##2{%
87 \ifx##1##2\expandafter \@firstoftwo
88 \else \expandafter \@secondoftwo \fi}%

Dealing with `\NFL@date@or@rest{<token-list>}` before `\NFL@maybe@three:`

89 \def\nfl@date@or@rest##1{%
90 \nfl@if@date{##1}{##1}{\NFL@no@date@version##1}}%

`\NFL@if@date{<token-list>}{<yes>}{<no>}` ...

91 \def\nfl@if@date##1{\NFL@slashes##1\nfl@xi xyzxyzxyz\@nil}%

`\NFL@slashes` checks that there are slashes at the expected places:

92 \def\nfl@slashes##1##2##3##4##5##6##7##8{%
93 \nfl@ifx@kbl##5/%
94 {\NFL@ifx@kbl##8/\NFL@ten@only\nfl@false}%
95 \nfl@false

This especially happens when `<token-list>` is empty. Digit candidates back:

96 {##1##2##3##4##6##7}}%

If the word is a date, we now have taken 6 of the 8 digits.

`\NFL@ten@only{<digits>}{<digit>}{<digit>Q}`

takes the two remaining and then a thing that should be Q in the funny sense of Sec. 2.5.

97 \def\nfl@ten@only##1##2##3##4{%
98 \nfl@ifx@kbl\nfl@xi##4\nfl@digits\nfl@false

Finally checking digits:

99 ##1##2##3\@nnil}%

`\NFL@digits<token>` is a loop through single tokens:

100 \def\nfl@digits##1{%
101 \nfl@ifx@kbl##1\@nnil\nfl@true{%
102 \nfl@if@digit@code##1<0\nfl@false{%
103 \nfl@if@digit@code##1>9\nfl@false\nfl@digits
104 }%
105 }%
106 }%

`\NFL@if@digit@code<char-1>{<relation>}{<char-2>}{<fits>}{<bad>}`:

```

107 \def\NFL@if@digit@code##1##2##3{%
108 \ifnum'##1##2'##3 \expandafter \@firstoftwo
109 \else \expandafter \@secondoftwo \fi}%

```

`\NFL@false` skips further candidates and dummies and chooses *<no>*:

```

110 \def\NFL@false##1\@nil{\@secondoftwo}%

```

`\NFL@true` skips further candidates and dummies and chooses *<yes>*:

```

111 \def\NFL@true##1\@nil{\@firstoftwo}%

```

We don't support version without date, therefore run `\NFL@no@date@version` as soon as we find that the file info does not start with a date:

```

112 \def\NFL@no@date@version{%
113 \NFLnodate\NFLspaceII\NFLnversion@\NFLspaceIII}%

```

`\NFLnversion@` adds filler to `\NFLnversion`:

```

114 \def\NFLnversion@{%
115 \NFL@make@macro@arg\NFL@place@version\NFLnversion}%

```

`\NFL@maybe@three{<word-1>}{<rest>}` looks whether *<word-1>* is a date. If it is, it is written to screen, and then we look if *<rest>* contains a version id. Otherwise “*<word-1>_<rest>*” is considered a “caption” only.

```

116 \def\NFL@maybe@three##1##2{%
117 \NFL@if@date{##1}%
118 \iftrue \NFLspaceII
119 \NFL@space@split{##2}%
120 \NFL@maybe@version@rest
121 \NFL@version@or@rest}%
122 {\NFL@no@date@version##1 ##2}}%

```

`\NFL@version@or@rest{<token-list>}`:

```

123 \def\NFL@version@or@rest##1{%
124 \NFL@if@version{##1}%
125 {\NFL@place@version{##1}}%
126 {\NFLnversion@\NFLspaceIII##1}}%

```

`\NFL@if@version{<token-list>}{<yes>}{<no>}`:

```

127 \def\NFL@if@version##1{\NFL@v@digit##1xy\@nil}%

```

TODO: At applications you see how some tokens could be saved. On the other hand, the macros are more transparent in the present way.

`\NFL@v@digit{<t1>}{<t2>}{<rest>}` checks whether the first thing is a v and the second a digit—unless package option `[r]` was chosen. v0.4 uses `\edef` for choosing:

```

128 \edef\NFL@v@digit##1##2##3\@nil{%
129 \noexpand\NFL@ifx@kbl##1v%
130 {\noexpand\NFL@digits##2\noexpand\@nnil}%

```

`\@listfiles` will either expand to the original `\NFL@false` or to a test on `r`:

```

131 \@listfiles
132 \noexpand\@nil}%
133 \let\@listfiles\relax

```

`\NFL@place@version{<token-list>}` adds filler to version id:

```

134 \def\NFL@place@version##1{\MFleftinfield{##1}{f-version}}%

135 \NFL@maybe@version@rest{<list-1>}{<list-2>}:
136 \def\NFL@maybe@version@rest##1##2{%
137 \NFL@if@version{##1}%
138 {\NFL@place@version{##1}\NFLspaceIII##2}%
139 {\NFLnoversion@\NFLspaceIII##1 ##2}}%

```

2.7 Shorthand for myfilist

`\MaxBaseEmptyList{<longest-name>}[<read-again-files>]`

(v0.5) or

`\MaxBaseEmptyList*[<read-again-files>]`

(v0.6) as described in Section 1.5.2:

```

140 \newcommand*{\MaxBaseEmptyList}{%
141 \@ifstar{\maxBaseEmptyList{abcdabcd}}{\maxBaseEmptyList}
142 \newcommand*{\maxBaseEmptyList}[1]{%
143 \MFfieldtemplate{f-base}{#1}%
144 \RequirePackage{myfilist}\EmptyFileList}

```

So `\maxBaseEmptyList` is like former `\MaxBaseEmptyList` without expecting a star—available to users.

2.8 Leaving the Package File

```

145 \endinput

```

2.9 VERSION HISTORY

```

146 v0.1    2012/03/20    started
147         2012/03/22    almost ready
148         2012/03/23    debugging; \NFLspaceI etc.;
149                     documentation completed
150

```

```

151 v0.2 2012/03/24 file info processed by \typeout - start
152      2012/03/25 trying, debugging
153      2012/03/26 continued; \NFL@place@version, \NFLnversion@;
154      works, reordered; another fix about Q -> \@empty
155      2012/03/27 undone the latter, explained; improved remarks on
156      \@listfiles
157      2012/03/29 alignment of title/stars with base<11
158
159 v0.30 2012/05/18f. \NFL@ifx@kbl in \NFL@return@space@split
160      2012/05/20 all \ifx reimplemented, old code kept
161      STORED INTERNALLY
162 v0.31 2012/05/20 removing old code - STORED INTERNALLY
163 v0.32 2012/05/20 removing \NFL@xpxpxp; replacing \NFL@after@false
164      by \NFL@ifnum@kbl, keeping old code
165      STORED INTERNALLY
166 v0.33 2012/05/20 removing old code; added 3 %s
167      STORED INTERNALLY
168 v0.4 2012/05/20 option [r]
169 v0.5 2012/09/30 \MaxBaseEmptyList
170 v0.6 2012/10/03 \MaxBaseEmptyLists first arg. only optional
171      2012/10/11 ... bad with 2nd opt. arg., *
172 v0.7 2012/10/13 "updating" date in \Provides...!
173      2012/10/28 \HardWrap first try
174      2012/10/29 \HardWrap newline material -> [wrap]
175      sec:test below sec:opt, mentioning 'url'
176      2012/10/30 correcting \NFL@filerow without wrapping,
177      doc.: |...| in sec:opt
178

```

3 Credits

1. It was MARTIN MÜNCH who pointed out the shortcomings of `longname-filelist` that the present package addresses—thanks!
2. For ALOIS KABELSCHACHT—whose idea in TUGboat 8 #2² is used for v0.3—cf. the `dowith` documentation.

4 Missing

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

²“`\expandafter` vs. `\let` and `\def` in Conditionals and a Generalization of PLAIN’s `\loop`,” TUGboat Vol. 8 (1987), No. 2, pp. 184f. (tug.org/TUGboat/tb08-2/tb18kabel.pdf)