The iflang package

Heiko Oberdiek*
<heiko.oberdiek at googlemail.com>

2016/05/16 v1.6

Abstract

This package provides expandible checks for the current language based on macro `\languagename` or hyphenation patterns.

Contents

*Please report any issues at https://github.com/ho-tex/oberdiek/issues

1 Documentation

Package babel defines `\iflanguagename`. As first argument it takes a language name and executes the second or third argument depending on the current language. This language test is based on hypenation patterns. However, it is possible that different languages or dialects share the same patterns. In such cases `\iflanguagename` fails.

However, package babel and some other packages such as german or ngerman store the language name in the macro `\languagename` if `\selectlanguage` is called.

`\IfLanguageName` {⟨*lang*⟩} {⟨*then*⟩} {⟨*else*⟩}

Makro `\IfLanguageName` compares language ⟨*lang*⟩ with the current setting of macro `\languagename`. If both contains the same name then the ⟨*then*⟩ part is called, otherwise the ⟨*else*⟩ part.

The macro is expandable. Thus it can be safely used inside `\edef` or `\csname`. If case of errors like an undefined `\languagename` the ⟨*else*⟩ part is executed.

Note: Macro `\IfLanguageName` relies on the fact, that `\languagename` is set correctly:

Package babel:
Full support of `\languagename` in its language switching commands.

Format based on babel (`language.dat`):
If package babel is not used (or not yet loaded), then babel's `hyphen.cfg` has set `\languagename` to the last language in `language.dat`, but `\language` (current patterns) is zero and points to the first language. Thus the value of `\languagename` is basically garbage. Package iflang warns if `\languagename` and `\language` do not fit. This can be fixed by loading package babel previously.

Format based on ε-TEX's `etex.src` (`language.def`):
Unhappily it does not support `\languagename`. Thus this package hooks into `\uselanguage` to get `\languagename` defined and updated there. At package loading time the changed `\uselanguage` has not been called yet. Thus package iflang tries `USenglish`. This is the definite default language of `etex.src`. If the current patterns suit this default language, an undefined `\languagename` is set to this language. Otherwise a `\languagename` remains undefined and a warning is given.

`\IfLanguagePatterns` {⟨*lang*⟩} {⟨*then*⟩} {⟨*else*⟩}

This macro behaves similar to `\IfLanguageName`. But the language test is based on the current pattern in force (`\language`). Also this macro is expandable, in case of errors the ⟨*else*⟩ part is called.

The following naming convention for the pattern are supported:

babel/`language.dat` : `\l@`⟨*language*⟩

etex.src/`language.def` : `\lang@`⟨*language*⟩

Package iflang looks for `\uselanguage` (defined in `etex.src`) to find out the naming convention in use.

2 Implementation

```
1 ⟨*package⟩
```

2.1 Reload check and package identification

Reload check, especially if the package is not used with LaTeX.

```
2 \begingroup\catcode61\catcode48\catcode32=10\relax%
3   \catcode13=5 % ^^M
4   \endlinechar=13 %
5   \catcode35=6 % #
6   \catcode39=12 % '
7   \catcode44=12 % ,
8   \catcode45=12 % -
9   \catcode46=12 % .
10  \catcode58=12 % :
11  \catcode64=11 % @
12  \catcode123=1 % {
13  \catcode125=2 % }
14  \expandafter\let\expandafter\x\csname ver@iflang.sty\endcsname
15  \ifx\x\relax % plain-TeX, first loading
16  \else
17    \def\empty{}%
18    \ifx\x\empty % LaTeX, first loading,
19      % variable is initialized, but \ProvidesPackage not yet seen
20    \else
21      \expandafter\ifx\csname PackageInfo\endcsname\relax
22        \def\x#1#2{%
23          \immediate\write-1{Package #1 Info: #2.}%
24        }%
25      \else
26        \def\x#1#2{\PackageInfo{#1}{#2, stopped}}%
27      \fi
28      \x{iflang}{The package is already loaded}%
29      \aftergroup\endinput
30    \fi
31  \fi
32 \endgroup%
```

Package identification:

```
33 \begingroup\catcode61\catcode48\catcode32=10\relax%
34   \catcode13=5 % ^^M
35   \endlinechar=13 %
36   \catcode35=6 % #
```

```
  \catcode39=12 % '
  \catcode40=12 % (
  \catcode41=12 % )
  \catcode44=12 % ,
  \catcode45=12 % -
  \catcode46=12 % .
  \catcode47=12 % /
  \catcode58=12 % :
  \catcode64=11 % @
  \catcode91=12 % [
  \catcode93=12 % ]
  \catcode123=1 % {
  \catcode125=2 % }
  \expandafter\ifx\csname ProvidesPackage\endcsname\relax
    \def\x#1#2#3[#4]{\endgroup
      \immediate\write-1{Package: #3 #4}%
      \xdef#1{#4}%
    }%
  \else
    \def\x#1#2[#3]{\endgroup
      #2[{#3}]%
      \ifx#1\@undefined
        \xdef#1{#3}%
      \fi
      \ifx#1\relax
        \xdef#1{#3}%
      \fi
    }%
  \fi
\expandafter\x\csname ver@iflang.sty\endcsname
\ProvidesPackage{iflang}%
  [2016/05/16 v1.6 Checks for the current language (HO)]%
\begingroup\catcode61\catcode48\catcode32=10\relax%
  \catcode13=5 % ^^M
  \endlinechar=13 %
  \catcode123=1 % {
  \catcode125=2 % }
  \catcode64=11 % @
  \def\x{\endgroup
    \expandafter\edef\csname IfLang@AtEnd\endcsname{%
      \endlinechar=\the\endlinechar\relax
      \catcode13=\the\catcode13\relax
      \catcode32=\the\catcode32\relax
      \catcode35=\the\catcode35\relax
      \catcode61=\the\catcode61\relax
      \catcode64=\the\catcode64\relax
      \catcode123=\the\catcode123\relax
      \catcode125=\the\catcode125\relax
    }%
  }%
\x\catcode61\catcode48\catcode32=10\relax%
\catcode13=5 % ^^M
\endlinechar=13 %
\catcode35=6 % #
\catcode64=11 % @
\catcode123=1 % {
\catcode125=2 % }
\def\TMP@EnsureCode#1#2{%
```

```
  \edef\IfLang@AtEnd{%
    \IfLang@AtEnd
    \catcode#1=\the\catcode#1\relax
  }%
  \catcode#1=#2\relax
}
\TMP@EnsureCode{39}{12}% '
\TMP@EnsureCode{40}{12}% (
\TMP@EnsureCode{41}{12}% )
\TMP@EnsureCode{44}{12}% ,
\TMP@EnsureCode{46}{12}% .
\TMP@EnsureCode{47}{12}% /
\TMP@EnsureCode{58}{12}% :
\TMP@EnsureCode{91}{12}% [
\TMP@EnsureCode{93}{12}% ]
\edef\IfLang@AtEnd{\IfLang@AtEnd\noexpand\endinput}
```

2.2 Tools

2.2.1 Provide some basic macros of LaTeX

\@firstoftwo

```
\expandafter\ifx\csname @firstoftwo\endcsname\relax
  \long\def\@firstoftwo#1#2{#1}%
\fi
```

\@secondoftwo

```
\expandafter\ifx\csname @secondoftwo\endcsname\relax
  \long\def\@secondoftwo#1#2{#2}%
\fi
```

2.2.2 Expandible existence check for macros

\IfLang@IfDefined

```
\begingroup\expandafter\expandafter\expandafter\endgroup
\expandafter\ifx\csname ifcsname\endcsname\relax
  \expandafter\@firstoftwo
\else
  \expandafter\@secondoftwo
\fi
{%
  \def\IfLang@IfDefined#1{%
    \expandafter\ifx\csname#1\endcsname\relax
      \expandafter\@secondoftwo
    \else
      \expandafter\@firstoftwo
    \fi
  }%
}{%
  \def\IfLang@IfDefined#1{%
    \ifnum\ifcsname#1\endcsname
            \expandafter\ifx\csname#1\endcsname\relax
              1%
            \else
              0%
            \fi
          \else
            1%
```

```
          \fi
          =0 %
      \expandafter\@firstoftwo
    \else
      \expandafter\@secondoftwo
    \fi
  }%
}
```

2.2.3 Macros for messages

```
\begingroup\expandafter\expandafter\expandafter\endgroup
\expandafter\ifx\csname RequirePackage\endcsname\relax
  \input infwarerr.sty\relax
  \input pdftexcmds.sty\relax
\else
  \RequirePackage{infwarerr}[2007/09/09]%
  \RequirePackage{pdftexcmds}[2016/05/16]%
\fi
```

2.2.4 Support for `etex.src`

`\IfLang@prefix`

```
\begingroup\expandafter\expandafter\expandafter\endgroup
\expandafter\ifx\csname uselanguage\endcsname\relax
  \@PackageInfoNoLine{iflang}{%
    Naming convention for patterns: babel%
  }%
  \def\IfLang@prefix{l@}%
\else
  \@PackageInfoNoLine{iflang}{%
    Naming convention for patterns: etex.src%
  }%
  \def\IfLang@prefix{lang@}%
  \let\IfLang@OrgUseLanguage\uselanguage
  \def\uselanguage#1{%
    \edef\languagename{#1}%
    \IfLang@OrgUseLanguage{#1}%
  }%
```

The first `\uselanguage` that is executed as last line in `language.def` cannot patched this way. However, `language.def` is very strict. It forces the first added and used language to be `USenglish`. Thus, if `\languagename` is not defined, we can quite safely assume `USenglish`. As additional safety precaution the actual used patterns are checked.

```
  \begingroup\expandafter\expandafter\expandafter\endgroup
  \expandafter\ifx\csname languagename\endcsname\relax
    \begingroup\expandafter\expandafter\expandafter\endgroup
    \expandafter\ifx\csname lang@USenglish\endcsname\relax
      \@PackageWarningNoLine{iflang}{%
        \string\lang@USenglish\space is missing%
      }%
    \else
      \ifnum\lang@USenglish=\language
        \def\languagename{USenglish}%
      \else
        \@PackageWarningNoLine{iflang}{%
          \string\languagename\space is not set,\MessageBreak
```

```
          current language is unknown%
        }%
      \fi
    \fi
  \fi
\fi
\begingroup\expandafter\expandafter\expandafter\endgroup
\expandafter\ifx\csname languagename\endcsname\relax
  \@PackageInfoNoLine{iflang}{%
    \string\languagename\space is not set%
  }%
\fi
```

2.3 \IfLanguagePatterns

\IfLanguagePatterns

```
\def\IfLanguagePatterns#1{%
  \ifnum\IfLang@IfDefined{\IfLang@prefix#1}{%
          \ifnum\csname\IfLang@prefix#1\endcsname=\language
            0%
          \else
            1%
          \fi
        }{1}=0 %
    \expandafter\@firstoftwo
  \else
    \expandafter\@secondoftwo
  \fi
}
```

2.4 \IfLanguageName

```
\begingroup\expandafter\expandafter\expandafter\endgroup
\expandafter\ifx\csname pdf@strcmp\endcsname\relax
  \expandafter\@firstoftwo
\else
  \expandafter\@secondoftwo
\fi
{%
```

We do not have `\pdf@strcmp` (and `\pdfstrcmp`). Thus we must define our own expandable string comparison. The following implementation is based on a TEX pearl from David Kastrup, presented at the conference BachoTEX 2005: http://www-stary.gust.org.pl/pearls/2005/david-kastrup/bachotex2005-david-kastrup-pearl1.pdf

The orignal code allows macros inside the second string. Because also `\languagename` might consists of further macros, we need a variant that allows macros in the first string, too.

```
  \def\IfLang@StrNil{\relax}%
  \def\IfLang@StrEqual#1{%
    \number\IfLang@StrEqualStart{}{}#1\IfLang@StrNil
  }%
  \def\IfLang@StrEqualStart#1#2#3{%
    \ifx#3\IfLang@StrNil
      \IfLang@StrEqualStop
    \fi
    \ifcat\noexpand#3\relax
      \IfLang@StrExpand{#1}{#2}#3%
```

```
    \fi
    \IfLang@StrEqualStart{\if#3#1}{#2\fi}%
  }%
  \def\IfLang@StrEqualStop\fi#1\IfLang@StrEqualStart#2#3#4{%
    \fi
    #2#4\relax'#313 %
  }%
  \def\IfLang@StrExpand#1#2#3\fi\IfLang@StrEqualStart#4#5{%
    \fi
    \IfLang@@StrExpand{#1}{#2}#3%
  }%
  \def\IfLang@@StrExpand#1#2#3\IfLang@StrNil{%
    \expandafter\IfLang@@@StrExpand#3\IfLang@StrNil{#1}{#2}%
  }%
  \def\IfLang@@@StrExpand#1\IfLang@StrNil#2#3{%
    \IfLang@StrEqualStart{#2}{#3}#1\IfLang@StrNil
  }%
```

\IfLanguageName

```
  \def\IfLanguageName#1{%
    \ifnum\IfLang@IfDefined{languagename}{%
            \if\expandafter\IfLang@StrEqual\expandafter%
                           {\languagename}{#1}%
              0%
            \else
              1%
            \fi
          }{1}=0 %
      \expandafter\@firstoftwo
    \else
      \expandafter\@secondoftwo
    \fi
  }%

}{%
```

\IfLanguageName

```
  \def\IfLanguageName#1{%
    \ifnum\IfLang@IfDefined{languagename}{%
            \pdf@strcmp{#1}{\languagename}%
          }{1}=0 %
      \expandafter\@firstoftwo
    \else
      \expandafter\@secondoftwo
    \fi
  }%

}
```

2.5 Check plausibility of \languagename

```
\begingroup\expandafter\expandafter\expandafter\endgroup
\expandafter\ifx\csname languagename\endcsname\relax
\else
  \IfLanguagePatterns{\languagename}{}{%
    \@PackageWarningNoLine{iflang}{%
      Mismatch between \string\language\space
      (patterns)\MessageBreak
      and setting of \string\languagename
```

```
    }%
  }%
\fi
\IfLang@AtEnd%
```
⟨/package⟩

3 Test

3.1 Catcode checks for loading

⟨*test1⟩

```
\catcode`\{=1 %
\catcode`\}=2 %
\catcode`\#=6 %
\catcode`\@=11 %
\expandafter\ifx\csname count@\endcsname\relax
  \countdef\count@=255 %
\fi
\expandafter\ifx\csname @gobble\endcsname\relax
  \long\def\@gobble#1{}%
\fi
\expandafter\ifx\csname @firstofone\endcsname\relax
  \long\def\@firstofone#1{#1}%
\fi
\expandafter\ifx\csname loop\endcsname\relax
  \expandafter\@firstofone
\else
  \expandafter\@gobble
\fi
{%
  \def\loop#1\repeat{%
    \def\body{#1}%
    \iterate
  }%
  \def\iterate{%
    \body
      \let\next\iterate
    \else
      \let\next\relax
    \fi
    \next
  }%
  \let\repeat=\fi
}%
\def\RestoreCatcodes{}
\count@=0 %
\loop
  \edef\RestoreCatcodes{%
    \RestoreCatcodes
    \catcode\the\count@=\the\catcode\count@\relax
  }%
\ifnum\count@<255 %
  \advance\count@ 1 %
\repeat

\def\RangeCatcodeInvalid#1#2{%
  \count@=#1\relax
  \loop
```

```
    \catcode\count@=15 %
  \ifnum\count@<#2\relax
    \advance\count@ 1 %
  \repeat
}
\def\RangeCatcodeCheck#1#2#3{%
  \count@=#1\relax
  \loop
    \ifnum#3=\catcode\count@
    \else
      \errmessage{%
        Character \the\count@\space
        with wrong catcode \the\catcode\count@\space
        instead of \number#3%
      }%
    \fi
  \ifnum\count@<#2\relax
    \advance\count@ 1 %
  \repeat
}
\def\space{ }
\expandafter\ifx\csname LoadCommand\endcsname\relax
  \def\LoadCommand{\input iflang.sty\relax}%
\fi
\def\Test{%
  \RangeCatcodeInvalid{0}{47}%
  \RangeCatcodeInvalid{58}{64}%
  \RangeCatcodeInvalid{91}{96}%
  \RangeCatcodeInvalid{123}{255}%
  \catcode`\@=12 %
  \catcode`\\=0 %
  \catcode`\%=14 %
  \LoadCommand
  \RangeCatcodeCheck{0}{36}{15}%
  \RangeCatcodeCheck{37}{37}{14}%
  \RangeCatcodeCheck{38}{47}{15}%
  \RangeCatcodeCheck{48}{57}{12}%
  \RangeCatcodeCheck{58}{63}{15}%
  \RangeCatcodeCheck{64}{64}{12}%
  \RangeCatcodeCheck{65}{90}{11}%
  \RangeCatcodeCheck{91}{91}{15}%
  \RangeCatcodeCheck{92}{92}{0}%
  \RangeCatcodeCheck{93}{96}{15}%
  \RangeCatcodeCheck{97}{122}{11}%
  \RangeCatcodeCheck{123}{255}{15}%
  \RestoreCatcodes
}
\Test
\csname @@end\endcsname
\end
```

⟨/test1⟩

3.2 Test with LaTeX

⟨*test2 | test3⟩

```
\NeedsTeXFormat{LaTeX2e}
```

⟨test3⟩*\let\pdfstrcmp\relax*

```
\nofiles
```

```
\documentclass{minimal}
\usepackage{qstest}
\IncludeTests{*}
\LogTests{log}{*}{*}
\usepackage[english,naustrian,ngerman]{babel}
\usepackage{iflang}
\begin{document}
\begin{qstest}{IfLanguagePatterns}{language, pattern}
  \def\test#1#2{%
    \Expect*{\IfLanguagePatterns{#1}{true}{false}}{#2}%
  }%
  \test{ngerman}{true}%
  \test{naustrian}{true}%
  \test{english}{false}%
  \test{foobar}{false}%
\end{qstest}
\begin{qstest}{IfLanguageName}{language, name}
  \def\test#1#2{%
    \Expect*{\IfLanguageName{#1}{true}{false}}{#2}%
  }%
  \test{ngerman}{true}%
  \test{naustrian}{false}%
  \selectlanguage{naustrian}%
  \test{ngerman}{false}%
  \test{naustrian}{true}%
  \test{foobar}{false}%
  %
  \def\languagename{naustrian}%
  \test{naustrian}{true}%
  \test{ngerman}{false}%
  %
  \edef\languagename{\string naustrian}%
  \test{naustrian}{true}%
  \test{ngerman}{false}%
  %
  \def\languagename{naustrian}%
  \makeatletter
  \@onelevel@sanitize\languagename
  \test{naustrian}{true}%
  \test{ngerman}{false}%
  %
  \def\languagename{naustrian}%
  \def\xaustrian{naustrian}%
  \def\xgerman{ngerman}%
  \test{\xaustrian}{true}%
  \test{\xgerman}{false}%
  %
  \def\languagename{\xaustrian}%
  \test{naustrian}{true}%
  \test{ngerman}{false}%
  \test{\xaustrian}{true}%
  \test{\xgerman}{false}%
  \test{\languagename}{true}%
  \test{\languagename\space}{false}%
  %
  \def\languagename{\empty\xaustrian\empty}%
  \test{naustrian}{true}%
  \test{ngerman}{false}%
```

```
  \test{\empty\xaustrian\empty}{true}%
  \test{\empty\xgerman\empty}{false}%
\end{qstest}
\begin{qstest}{IfDefined}{defined}
  \makeatletter
  \let\foobar\relax
  \Expect*{\IfLang@IfDefined{foobar}{true}{false}}{false}%
  \Expect*{\ifx\foobar\relax true\else false\fi}{true}%
  \let\foobar\UNDEFINED
  \Expect*{\IfLang@IfDefined{foobar}{true}{false}}{false}%
  \Expect*{\ifx\foobar\relax true\else false\fi}{false}%
  \Expect*{\ifx\foobar\UNDEFINED true\else false\fi}{true}%
\end{qstest}
\end{document}
```

⟨/test2 | test3⟩

3.3 Test with plain TEX and ε-TEX

⟨*test4⟩

```
%% Format 'etex' based on 'language.def'
\input iflang.sty
\catcode64=12

\def\TestGeneric#1#2#3{%
  \begingroup
    \edef\x{#1{#2}{true}{false}}%
    \edef\y{#3}%
    \ifx\x\y
    \else
      \errmessage{Failed test: \string#1{#2} <> #3}%
    \fi
  \endgroup
}
\def\TestPatterns{\TestGeneric\IfLanguagePatterns}
\def\TestName{\TestGeneric\IfLanguageName}

\TestPatterns{USenglish}{true}
\TestPatterns{ngerman}{false}

\TestName{USenglish}{true}
\TestName{ngerman}{false}

\uselanguage{ngerman}

\TestPatterns{USenglish}{false}
\TestPatterns{ngerman}{true}

\TestName{USenglish}{false}
\TestName{ngerman}{true}

\csname @@end\endcsname
\end
```

⟨/test4⟩

3.4 Test with plain TEX and without ε-TEX/pdfTEX

⟨*test5⟩

```
%% Format 'tex' (vanilla plain-TeX)
```

```
\let\ifcsname\UNDEFINED
\let\pdfstrcmp\UNDEFINED
\input iflang.sty
\catcode64=11

\def\TestDefined#1{%
  \IfLang@IfDefined{foobar}{}{}%
  \ifx\foobar#1%
  \else
    \errmessage{Failed test: \string\foobar <> \string#1}%
  \fi
}
\let\foobar\relax
\TestDefined\relax
\let\foobar\UNDEFINED
\TestDefined\relax

\def\strip@prefix#1>{}
\def\@onelevel@sanitize#1{%
  \edef#1{\expandafter\strip@prefix\meaning#1}%
}
\def\TestCompare#1#2#3{%
  \begingroup
    \edef\x{%
      \if\IfLang@StrEqual{#1}{#2}%
        true%
      \else
        false%
      \fi
    }%
    \def\expect{#3}%
    \ifx\x\expect
    \else
      \def\a{#1}%
      \@onelevel@sanitize\a
      \def\b{#2}%
      \@onelevel@sanitize\b
      \errmessage{Failed test: `\a'='\b' <> \expect}%
    \fi
  \endgroup
}
\TestCompare{junk}{junk}{true}
\TestCompare{}{}{true}
\TestCompare{a}{b}{false}
\TestCompare{aa}{bb}{false}
\def\a{ax}
\def\b{bx}
\def\c{\a\b}
\def\d{\c\b}
\def\exch#1#2{#2#1}
\def\gobble#1{}
\TestCompare{\gobble a}{}{true}
\TestCompare{}{\gobble a}{true}
\TestCompare{a\exch xyb}{ayxb}{true}
\TestCompare{\c}{\c}{true}
\TestCompare{\d}{\c\b}{true}

\csname @@end\endcsname
```

```
\end
⟨/test5⟩
```

4 Installation

4.1 Download

Package. This package is available on CTAN[1]:

CTAN:macros/latex/contrib/oberdiek/iflang.dtx The source file.

CTAN:macros/latex/contrib/oberdiek/iflang.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 TEX Files" (CTAN:tds/tds.pdf). Directories with `texmf` in their name are usually organized this way.

4.2 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/
```

4.3 Package installation

Unpacking. The `.dtx` file is a self-extracting docstrip archive. The files are extracted by running the `.dtx` through plain TEX:

```
tex iflang.dtx
```

TDS. Now the different files must be moved into the different directories in your installation TDS tree (also known as `texmf` tree):

```
iflang.sty             → tex/generic/oberdiek/iflang.sty
iflang.pdf             → doc/latex/oberdiek/iflang.pdf
test/iflang-test1.tex → doc/latex/oberdiek/test/iflang-test1.tex
test/iflang-test2.tex → doc/latex/oberdiek/test/iflang-test2.tex
test/iflang-test3.tex → doc/latex/oberdiek/test/iflang-test3.tex
test/iflang-test4.tex → doc/latex/oberdiek/test/iflang-test4.tex
test/iflang-test5.tex → doc/latex/oberdiek/test/iflang-test5.tex
iflang.dtx             → source/latex/oberdiek/iflang.dtx
```

[1] http://ctan.org/pkg/iflang

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.

4.4 Refresh file name databases

If your TEX distribution (teTEX, mikTEX, ...) relies on file name databases, you must refresh these. For example, teTEX users run `texhash` or `mktexlsr`.

4.5 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 iflang.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{iflang.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 pdfLATEX:

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

5 Catalogue

The following XML file can be used as source for the TEX 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 `iflang.xml`.

```
⟨*catalogue⟩
<?xml version='1.0' encoding='us-ascii'?>
<!DOCTYPE entry SYSTEM 'catalogue.dtd'>
<entry datestamp='$Date$' modifier='$Author$' id='iflang'>
  <name>iflang</name>
  <caption>Expandable checks for the current language.</caption>
  <authorref id='auth:oberdiek'/>
```

```
  <copyright owner='Heiko Oberdiek' year='2007'/>
  <license type='lppl1.3'/>
  <version number='1.6'/>
  <description>
    This package provides expandable checks for the current language
    based on macro <tt>\languagename</tt> or hyphenation patterns.
    <p/>
    The package is part of the <xref refid='oberdiek'>oberdiek</xref> bundle.
  </description>
  <documentation details='Package documentation'
      href='ctan:/macros/latex/contrib/oberdiek/iflang.pdf'/>
  <ctan file='true' path='/macros/latex/contrib/oberdiek/iflang.dtx'/>
  <miktex location='oberdiek'/>
  <texlive location='oberdiek'/>
  <install path='/macros/latex/contrib/oberdiek/oberdiek.tds.zip'/>
</entry>
```
⟨/catalogue⟩

6 Acknowledgement

I wish to thank:

Markus Kohm Useful hints for version 1.2.

7 History

[2007/04/10 v1.0]

- First public version.

[2007/04/11 v1.1]

- Line ends sanitized.

[2007/04/12 v1.2]

- Initialization of `\languagename` in case of `etex.src`.
- Some sanity tests added.
- Documentation improved.

[2007/04/26 v1.3]

- Use of package infwarerr.

[2007/09/09 v1.4]

- Bug fix: `\IfLang@StrEqual` → `\IfLangStrEqual` (Gabriele Balducci).
- Catcode section rewritten.

[2007/11/11 v1.5]

- Use of package pdftexcmds for LuaTEX support.

[2016/05/16 v1.6]

- Documentation updates.

8 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.