The iflang package

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Abstract

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

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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.

```
\begingroup
  \catcode44 12 % ,
  \catcode45 12 % -
  \catcode46 12 % .
  \catcode58 12 % :
  \catcode64 11 % @
  \expandafter\let\expandafter\x\csname ver@iflang.sty\endcsname
  \ifcase 0%
    \ifx\x\relax % plain
    \else
      \ifx\x\empty % LaTeX
      \else
        1%
      \fi
    \fi
  \else
    \expandafter\ifx\csname PackageInfo\endcsname\relax
      \def\x#1#2{%
        \immediate\write-1{Package #1 Info: #2.}%
      }%
    \else
      \def\x#1#2{\PackageInfo{#1}{#2, stopped}}%
    \fi
    \x{iflang}{The package is already loaded}%
    \endgroup
    \expandafter\endinput
  \fi
\endgroup
```

Package identification:

```
\begingroup
  \catcode40 12 % (
  \catcode41 12 % )
  \catcode44 12 % ,
  \catcode45 12 % -
  \catcode46 12 % .
  \catcode47 12 % /
  \catcode58 12 % :
  \catcode64 11 % @
  \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\relax
        \xdef#1{#3}%
      \fi
    }%
  \fi
\expandafter\x\csname ver@iflang.sty\endcsname
\ProvidesPackage{iflang}%
  [2007/04/26 v1.3 Language checks (HO)]
\expandafter\edef\csname IfLang@endinput\endcsname{%
  \catcode39 \the\catcode39\relax % '
  \catcode40 \the\catcode40\relax % (
  \catcode41 \the\catcode41\relax % )
  \catcode61 \the\catcode61\relax % =
```

```
  \catcode64 \the\catcode64\relax % @
  \noexpand\endinput
}
\catcode39 12\relax % '
\catcode40 12\relax % (
\catcode41 12\relax % )
\catcode61 12\relax % =
\catcode64 11\relax % @
```

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
\else
  \RequirePackage{infwarerr}%
\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 pdfstrcmp\endcsname\relax
  \expandafter\@firstoftwo
\else
  \expandafter\@secondoftwo
\fi
{%
```

We do not have `\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}{%
            \pdfstrcmp{#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@endinput
⟨/package⟩
```

3 Test

3.1 Test with LaTeX

```
⟨*test1⟩
\NeedsTeXFormat{LaTeX2e}
\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}%
\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}
```

⟨/test1⟩

3.2 Test with plain-TEX and ε-TEX

⟨*test2⟩

```
%% 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
```

⟨/test2⟩

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

⟨*test3⟩

```
%% 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}
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\TestCompare{\d}{\c\b}{true}

```

```
374 \csname @@end\endcsname
375 \end
```

376 ⟨/test3⟩

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:macros/latex/contrib/oberdiek/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
iflang-test1.tex → doc/latex/oberdiek/iflang-test1.tex
iflang-test2.tex → doc/latex/oberdiek/iflang-test2.tex
iflang-test3.tex → doc/latex/oberdiek/iflang-test3.tex
iflang.dtx       → source/latex/oberdiek/iflang.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.

[1] ftp://ftp.ctan.org/tex-archive/

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 Acknowledgement

I wish to thank:

Markus Kohm Useful hints for version 1.2.

6 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.

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