TRANSLATIONS

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Internationalization of LATEX 2ε Packages

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1 Motivation

This package provides means for package authors to have an easy interface for internationalization of their packages. The functionality of this package is in many parts also covered by the package translator (part of the beamer bundle). Internationalization is also possible with babel [Bra13] and it's \addto\captions\language\ranguage

The first draft of the package was written since I missed an expandable version of translator's \translate command. Once I had the package available I began using it in various of my other packages so it got extended to the needs I faced there.

2 License and Requirements

Permission is granted to copy, distribute and/or modify this software under the terms of the LATEX Project Public License (LPPL), version 1.3 or later (http://www.latex-project.org/lppl.txt). The software has the status "maintained."

TRANSLATIONS requires the packages etoolbox¹ [Leh11] and scrifile (part of the KOMA-Script bundle² [KN12]).

3 Usage

3.1 Background

The **TRANSLATIONS** package enables the author of a package or a class (or a document) to declare translations of key words in different languages and fetch these translations in the document depending on the active language as set by babel or polyglossia. Since **TRANSLATIONS** checks which language is active it is generally not necessary (although possible) to specify the language for which a translation should be fetched manually.

TRANSLATIONS knows of three types of languages: main languages (see table 2 on page 11), language dialects (see table 3 on page 12), and language aliases (see table 4 on page 12). For the commands declaring or fetching a translation base languages and language aliases are equivalent. Dialects are similar to aliases but there are important differences. An alias can for example be an alias of a dialect.

Figure 1 shows what happens if **TRANSLATIONS** is asked to fetch a translation for a given key.

What happens if you declare a translation? There are four cases:

- 1. You declare a translation for a base language: this is the normal case where an internal macro is defined which can be fetched by the \GetTranslation command (see section 3.2).
- 2. You declare a translation for a language alias: this is the very same as the first case since the same internal macro is defined.
- 3. You declare a translation for a dialect: this is two-fold. Either a translation for the base language exists so only the translation for the dialect is saved. If the translation for the base language does not exist it is defined to be the same as the one for the dialect.
- 4. You declare a translation for an alias of a dialect: this is the very same as the third case as again the internal macros are the same.

3.2 Available Commands

Below the commands provided by **TRANSLATIONS** are explained. The symbol * means that the command is expandable. Commands without the marker aren't expandable.

^{1.} on CTAN as etoolbox: http://mirrors.ctan.org/macros/latex/contrib/etoolbox/

^{2.} on CTAN as koma-script: http://mirrors.ctan.org/macros/latex/contrib/koma-script/

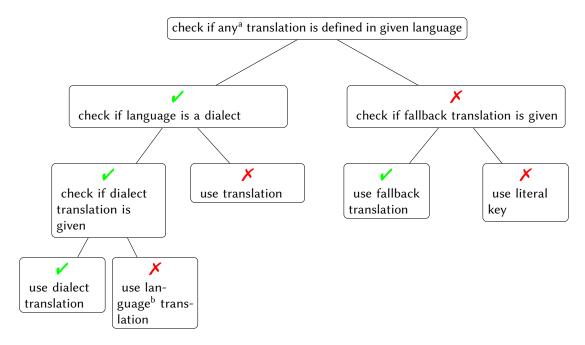


FIGURE 1: Schematic representation of **TRANSLATIONS**' translating mechansim. Notes: ^a except for a possible fallback translation. ^b *i. e.*, the base language of the dialect.

$\DeclareLanguage\{\langle lang\rangle\}$

Declare a language that can be used by **TRANSLATIONS**. If the language already exists it will be silently redefined. This command can only be used in the preamble. It should never be necessary to use this command as **TRANSLATIONS** already declares loads of languages (section 4). Should you miss one please send me an email and I'll add it to **TRANSLATIONS**.

$\DeclareLanguageAlias\{\langle lang2\rangle\}\{\langle lang1\rangle\}$

Declares $\langle lang2 \rangle$ to be an alias of $\langle lang1 \rangle$. If $\langle lang1 \rangle$ doesn't exist yet a warning will be raised and it will be defined. This command can only be used in the preamble. It should never be necessary to use this command as **TRANSLATIONS** already declares loads of languages (section 4). Should you miss one please send me an email and I'll add it to **TRANSLATIONS**.

$\DeclareLanguageDialect{\langle dialect \rangle} {\langle lang \rangle}$

Declares $\langle dialect \rangle$ to be a dialect of language $\langle lang \rangle$. If a translation for $\langle dialect \rangle$ is provided it is used by the translation macros. If there is none the corresponding translation for $\langle lang \rangle$ is used instead. It should never be necessary to use this command as **TRANSLATIONS** already declares loads of languages (section 4). Should you miss one please send me an email and I'll add it to **TRANSLATIONS**.

$\NewTranslation{\langle lang \rangle} {\langle key \rangle} {\langle translation \rangle}$

Defines a translation of key $\langle key \rangle$ for the language $\langle lang \rangle$. An error will be raised if a translation of $\langle key \rangle$ already exists. This command can only be used in the preamble.

$\RenewTranslation{\langle lang \rangle} {\langle key \rangle} {\langle translation \rangle}$

Redefines a translation of key $\langle key \rangle$ for the language $\langle lang \rangle$. An error will be raised if no translation of $\langle key \rangle$ exists. This command can only be used in the preamble.

$\DeclareTranslation{\langle lang \rangle} {\langle key \rangle} {\langle translation \rangle}$

Defines a translation of key $\langle key \rangle$ for the language $\langle lang \rangle$. No error will be raised if a translation of $\langle key \rangle$ already exists. This command can only be used in the preamble.

$\DeclareTranslationFallback{\langle key \rangle}{\langle fallback \rangle}$

Defines a fallback translation for key $\langle key \rangle$ that is used in case no translation of $\langle key \rangle$ for the currently active language has been provided. No error will be raised if a fallback for $\langle key \rangle$ already exists. This command can only be used in the preamble.

*\GetTranslationFor{ $\langle lang \rangle$ }{ $\langle key \rangle$ }

Fetches and prints the translation of $\langle key \rangle$ for the language $\langle lang \rangle$. This command is expandable.

* \GetTranslation{ $\langle key \rangle$ }

Fetches and prints the translation of $\langle key \rangle$ for the currently active language (as for example set by babel). This command is expandable.

* \GetLCTranslationFor $\{\langle lang \rangle\} \{\langle key \rangle\}$

Introduced in version 1.1

Fetches and prints the translation of $\langle key \rangle$ for the language $\langle lang \rangle$. This command ensures that the fetched translation is set lowercase. This command is expandable.

* \GetLCTranslation $\{\langle key \rangle\}$

Introduced in version 1.1

Fetches and prints the translation of $\langle key \rangle$ for the currently active language (as for example set by babel). This command ensures that the fetched translation is set lowercase. This command is expandable.

$\GetTranslationForWarn\{\langle lang\rangle\}\{\langle key\rangle\}$

Introduced in version 1.0

Fetches and prints the translation of $\langle key \rangle$ for the language $\langle lang \rangle$. Issues a warning if no translation is available at the cost of expandability.

$\GetTranslationWarn\{\langle key \rangle\}$

Introduced in version 1.0

Fetches and prints the translation of $\langle key \rangle$ for the currently active language (as for example set by babel). Issues a warning if no translation is available at the cost of expandability.

$\GetLCTranslationForWarn\{\langle lang \rangle\}\{\langle key \rangle\}$

Introduced in version 1.1

Fetches and prints the translation of $\langle key \rangle$ for the language $\langle lang \rangle$. This command ensures that the fetched translation is set lowercase. Issues a warning if no translation is available at the cost of expandability.

$\GetLCTranslationWarn\{\langle key \rangle\}\$

Introduced in version 1.1

Fetches and prints the translation of $\langle key \rangle$ for the currently active language (as for example set by babel). This command ensures that the fetched translation is set lowercase. Issues a warning if no translation is available at the cost of expandability.

```
\SaveTranslationFor{\langle cmd \rangle}{\langle lang \rangle}{\langle key \rangle}
```

Fetches and saves the translation of $\langle key \rangle$ for the language $\langle lang \rangle$ in the macro $\langle cmd \rangle$.

```
\SaveTranslation{\langle cmd \rangle} {\langle key \rangle}
```

Fetches and saves the translation of $\langle key \rangle$ for the currently active language (as for example set by babel) in the macro $\langle cmd \rangle$.

```
\LoadDictionary{\langle name \rangle}
```

Loads a file named $\langle name \rangle$ - $\langle lang \rangle$. trsl where $\langle lang \rangle$ corresponds to the lowercase name of the current language as defined with \DeclareLanguage. This file should contain the translations for the specified language.

```
\LoadDictionaryFor{\langle lang \rangle} {\langle name \rangle}
```

Loads a file named $\langle name \rangle - \langle lang \rangle$.trsl.

```
\DeclareDictTranslation{\langle key \rangle} {\langle translation \rangle}
```

This command is to be used in a dictionary file and picks up the language of that file, see section 3.5 for an example.

```
\ProvideDictionaryFor{\langle lang \rangle}{\langle name \rangle}[\langle date \rangle]
```

Needs to be in a dictionary file. This command tells **TRANSLATIONS** that the file indeed is a dictionary and also sets the language for the dictionary which is used by **DeclareDictTranslation**.

```
* \P \PrintDictionaryFor{\langle lang \rangle}{\langle name \rangle}{\langle pre \rangle}{\langle mid \rangle}{\langle post \rangle}
```

Introduced in version 1.0

Prints all entries of dictionary $\langle name \rangle$ in language $\langle lang \rangle$ in the order the entries have been declared. For every entry the code

```
\langle pre \rangle \langle key \rangle \langle mid \rangle \langle translation \rangle \langle post \rangle
```

is printed. The dictionary must have been loaded of course. This may be of minor use but was used to print table 1.

*\baselanguage{ $\langle lang \rangle$ }

Introduced in version 1.1

Returns the (internal) base name of the given language, language alias or language dialect. For a base language (see section 4.1) this usually simply is the lowercase version of the name.

3.3 A Small Example

This section demonstrates with two short examples how the macros are used. The first example covers the basics: declaring of translations and then retrieving and typesetting them.

```
1 % in the preamble:
2 % \DeclareTranslation{English}{Kueche}{kitchen}
3 % \DeclareTranslation{German}{Kueche}{K\"uche}
4 % \DeclareTranslation{Spanish}{Kueche}{cocina}
5 % \DeclareTranslation{French}{Kueche}{cuisine}
6
7 \GetTranslation{Kueche}
```

```
8 \SaveTranslation\kitchen{Kueche}
9 \SaveTranslationFor\cuisine{french}{Kueche}

10
11 \selectlanguage{ngerman}
12 \GetTranslation{Kueche} \kitchen\ \GetTranslationFor{spanish}{Kueche}
13 \cuisine

kitchen
Küche kitchen cocina cuisine
```

The next example demonstrates the use of dialects and how they fall back to the translation for the main language if no extra translation was declared:

```
1 % in the preamble:
2 % \DeclareTranslation{English}{farbe}{color}
3 % \DeclareTranslation{British}{farbe}{colour}

4
5 \GetTranslationFor{English}{farbe}
6 \GetTranslationFor{British}{farbe}
7 \GetTranslationFor{American}{farbe}

color colour color
```

3.4 Usage in Packages

3.4.1 Basic Structure

A typical usage in a package would look as follows:

```
1 \RequirePackage{translations}
2 \DeclareTranslationFallback{mypackage-title}{Nice Title}
3 \DeclareTranslation{English}{mypackage-title}{Nice Title}
4 \DeclareTranslation{French}{mypackage-title}{Beau Titre}
5 \DeclareTranslation{German}{mypackage-title}{Sch\"{o}ner Titel}
6 ...
7 \def\mypackage@title{\GetTranslation{mypackage-title}}
```

That is, a package defines some unique key for an expression and at least defines a fall-back translation. Additionally translations for as many languages as the author wants are defined. A user then may add $\DeclareTranslation\{\langle language\rangle\}\{\langle translation\rangle\}\$ if they find their translation missing.

3.4.2 The 'fallback' language

If a user has neither loaded babel nor polyglossia **TRANSLATIONS** will use English as language and translate to English if the translation was provided. If the user *has* loaded one of the language packages but has chosen a language for which no translation is defined the language 'fallback' will be used, *i. e.*, the translation provided with \DeclareTranslationFallback. If no fallback translation is provided either the translation will expand to the literal string.

The following three examples should make this concept clear:

```
1 \documentclass{article}
2 \DeclareTranslation{German}{foo-literal}{bar}
3 \begin{document}
4 \GetTranslation{foo-literal} => 'foo-literal'
5 \end{document}
```

```
1 \documentclass{article}
2 \DeclareTranslationFallback{foo-literal}{foo}
3 \DeclareTranslation{German}{foo-literal}{bar}
4 \begin{document}
5 \GetTranslation{foo-literal} => 'foo'
6 \end{document}
```

```
1 \documentclass{article}
2 \usepackage[ngerman]{babel}
3 \DeclareTranslation{German}{foo-literal}{bar}
4 \begin{document}
5 \GetTranslation{foo-literal} => 'bar'
6 \end{document}
```

3.5 Dictionaries

3.5.1 Own Dictionaries

A typical dictionary file should look as follows:

```
1 % this is file housing-german.trsl
2 \ProvideDictionaryFor{German}{housing}[<version info>]
3 \DeclareDictTranslation{kitchen (housing)}{K\"uche}
4 \DeclareDictTranslation{bathroom (housing)}{Bad}
5 \DeclareDictTranslation{living room (housing)}{Wohnzimmer}
6 \DeclareDictTranslation{bedroom (housing)}{Schlafzimmer}
7 ...
```

8 \endinput

The usage is similar to the one in a package: unique keys are given translations, this time for the language the dictionary file is declared for only.

3.5.2 TRANSLATIONS' Basic Dictionaries

TRANSLATIONS already provides a basic dictionary for the languages English, French, German and Spanish. This dictionary is loaded automatically if the document language is one of these four. If you'd like to contribute and add the basic dictionary in your language this is more than welcome and highly appreciated! The easiest way to do this would be to copy one of the existing files translations-basic-dictionary- $\langle lang \rangle$.trsl and modify the file accordingly. You can then send me the file via email and I'll add it to TRANSLATIONS.

Table 1 lists all words provided by the basic dictionary for German.

TABLE 1: All entries of TRANSLATIONS' basic dictionary in German.

TABLE 1: All entries of Translations basic dictionary in German.				
key	translation			
Abstract	Zusammenfassung			
Addresses	Adressen			
addresses	Adressen			
Address	Adresse			
address	Adresse			
and	und			
Appendix	Anhang			
Authors	Autoren			
authors	Autoren			
Author	Autor			
author	Autor			
Bibliography	Literaturverzeichnis			
СС	Verteiler			
Chapters	Kapitel			
chapters	Kapitel			
Chapter	Kapitel			
chapter	Kapitel			
Conclusion	Zusammenfassung			
conclusion	Zusammenfassung			
Contents	Inhaltsverzeichnis			
Continuation	Fortsetzung			
continuation	Fortsetzung			
cont	Forts			
encl (plural)	Anlagen			
encl (singular)	Anlage			

continues

key	translation
encl	Anlage(n)
Figures	Abbildungen
figures	Abbildungen
Figure	Abbildung
figure	Abbildung
From	Von
from	von
Glossary	Glossar
Index	Index
Introduction	Einleitung
introduction	Einleitung
List of Figures and Tables	Abbildungs- und Tabellenverzeichnis
List of Figures	Abbildungsverzeichnis
List of Tables	Tabellenverzeichnis
or	oder
Outline	Gliederung
Overview	Übersicht
Pages	Seiten
pages	Seiten
Page	Seite
page	Seite
Paragraphs	Absätze
paragraphs	Absätze
Paragraph	Absatz
paragraph	Absatz
Parts	Teile
parts	Teile
Part	Teil
part	Teil
Preface	Vorwort
Proofs	Beweise
proofs	Beweise
Proof	Beweis
proof	Beweis
References	Literatur
Related work	Verwandte Arbeiten
Related Work	Verwandte Arbeiten
Sections	Abschnitte
sections	Abschnitte
Section	Abschnitt
section	Abschnitt

continues

key	translation
See also	Siehe auch
see also	siehe auch
See	Siehe
see	siehe
Sketch of Proofs	Beweisskizzen
Sketch of proofs	Beweisskizzen
Sketch of Proof	Beweisskizze
Sketch of proof	Beweisskizze
Subsections	Unterabschnitte
subsections	Unterabschnitte
Subsection	Unterabschnitt
subsection	Unterabschnitt
Summary	Zusammenfassung
Tables	Tabellen
tables	Tabellen
Table	Tabelle
table	Tabelle
То	An
to	an
Monday	Montag
Tuesday	Dienstag
Wednesday	Mittwoch
Thursday	Donnerstag
Friday	Freitag
Saturday	Samstag
Sunday	Sonntag
January	Januar
February	Februar
March	März
April	April
May	Mai
June	Juni
July	Juli
August	August
September	September
October	Oktober
November	November
December	Dezember

4 Defined Languages

4.1 Base Languages

Quite a number of languages already are defined, either directly or via an alias. So, before you define a language you should take a look at the tables below if the language doesn't already exist. Table 2 lists all base languages, "fallback" being a dummy language used for fallback translations. Tables 2, 3 and 4 list *all* language names known to **TRANSLATIONS**. However, they're not sorted alphabetically but listed in the order they have been defined. I tried to make the definitions in an alphabetical order but sometimes rather grouped related language names together.

If you miss a language or recognize a language that has falsely been declared as an alias but should rather be a dialect or base language itself (or any variation of this theme) please let me know, preferably with a short explanation what's wrong and why.

TABLE 2: Base languages defined by TRANSLATIONS, from left to right in the order of definition.

fallback	afrikaans	albanian	amharic	arabic
armenian	asturian	basque	bengali	breton
bulgarian	catalan	coptic	czech	danish
dutch	english	esperanto	estonian	ethiop
farsi	finnish	french	friulan	gaelic
galician	german	greek	hebrew	hindustani
hungarian	icelandic	interlingua	italian	japanese
kannada	ladin	lao	latin	latvian
lithuanian	malay	malayalam	maldivian	marathi
mongolian	norwegian	occitan	piedmontese	pinyin
polish	portuges	romanian	romansh	russian
samin	sanskrit	serbocroatian	slovak	slovenian
sorbian	spanglish	spanish	swedish	tamil
telugu	thai	tibetan	turkish	turkmen
ukrainian	vietnamese	welsh	canadien	acadian
american	australian	british	canadian	newzealand
irish	scottish	austrian	hindi	urdu
indonesian	brazil	serbian	croatian	lowersorbian
uppersorbian	swissgerman			

4.2 Language Dialects

TRANSLATIONS also defines a few dialects of thebase languages. They are listed in table 3. The decision what is a dialect and what is an alias is not always clear. I am no linguist so I looked up information available on the internet. A language that was described as "standardized register" was always defined as a dialect. For some other languages it seemed to make sense, such as British or Austrian. The decisions are open for debate.

TABLE 3: All dialects defined by TRANSLATIONS, from left to right in the order of definition.

dialect	language	dialect	language
canadien	french	acadian	french
american	english	australian	english
british	english	canadian	english
newzealand	english	irish	gaelic
scottish	gaelic	austrian	german
hindi	hindustani	urdu	hindustani
indonesian	malay	brazil	portuges
serbian	serbocroatian	croatian	serbocroatian
lowersorbian	sorbian	uppersorbian	sorbian
swissgerman	german		

4.3 Language Aliases

To most of the base languages and dialects at least one alias exists, the uppercase variant. This is due to the fact that it is common to write language names uppercased. For a number of languages aliases were defined in order to match babel's or polyglossia's names for the languages. Others are defined because there apparently exist more than one name for the same language. The decisions are not consistent. For example it could be argued that "deutsch" is an alias of "German". I am open to suggestions and improvements. All defined aliases are listed in table 4.

TABLE 4: All language aliases defined by **TRANSLATIONS**, from left to right in the order of definition.

alias	language	alias	language
Fallback	fallback	Afrikaans	afrikaans
Albanian	albanian	Amharic	amharic
Arabic	arabic	Armenian	armenian
Asturian	asturian	astur-leonese	asturian
Astur-Leonese	astur-leonese	asturian-leonese	asturian
Asturian-Leonese	asturian-leonese	Basque	basque
Bengali	bengali	Breton	breton
Bulgarian	bulgarian	Catalan	catalan
Coptic	coptic	coptic egyptian	coptic
Coptic Egyptian	coptic egyptian	Czech	czech
Danish	danish	Dutch	dutch
Farsi	farsi	Finnish	finnish
francais	french	Francais	francais
Canadien	canadien	French	french
Acadian	acadian	frenchle	french

continues

4 Defined Languages

alias	language	alias	language
American	american	Australian	australian
British	british	Canadian	canadian
English	english	UKenglish	british
USenglish	american	Newzealand	newzealand
Ethiop	ethiop	Esperanto	esperanto
Estonian	estonian	Friulan	friulan
Gaelic	gaelic	Irish	irish
irish gaelic	irish	Irish Gaelic	irish
Scottish	scottish	scottish gaelic	scottish
Scottish Gaelic	scottish	Galician	galician
German	german	germanb	german
ngerman	german	Austrian	austrian
naustrian	austrian	Greek	greek
polutonikogreek	greek	ibygreek	greek
bgreek	greek	Hebrew	hebrew
Hindustani	hindustani	hindi-urdu	hindustani
Hindi-Urdu	hindi-urdu	Hindi	hindi
Urdu	urdu	Hungarian	hungarian
magyar	hungarian	Magyar	magyar
Icelandic	icelandic	Interlingua	interlingua
Italian	italian	Japanese	japanese
Kannada	kannada	Ladin	ladin
Lao	lao	laotian	lao
Laotian	laotian	Latin	latin
Latvian	latvian	lettish	latvian
Lettish	lettish	Lithuanian	lithuanian
Malay	malay	Indonesian	indonesian
indon	indonesian	bahasa meyalu	malay
Bahasa Meyalu	bahasa meyalu	bahasa	bahasa meyalu
Bahasa	bahasa	bahasai	bahasa
bahasam	bahasa	Malayalam	malayalam
Maldivian	maldivian	divehi	maldivian
Divehi	divehi	Marathi	marathi
Mongolian	mongolian	norsk	norwegian
Norsk	norsk	Norwegian	norwegian
nynorsk	norwegian	Nynorsk	nynorsk
Occitan	occitan	lenga d'oc	occitan
langue d'oc	occitan	Piedmontese	piedmontese
piemontese	piedmontese	Piemontese	piemontese
piemonteis	piedmontese	Piemonteis	piemonteis
Pinyin	pinyin	Polish	polish

continues

5 Implementation

alias	language	alias	language
Brazil	brazil	brazilian	brazil
Brazilian	brazilian	Portuges	portuges
portuguese	portuges	Portuguese	portuguese
Romanian	romanian	Romansh	romansh
Romansch	romansh	Rumantsh	romansh
Rumantsch	romansh	Romanche	romansh
Russian	russian	Samin	samin
north sami	samin	North Sami	north sami
northern sami	north sami	Northern Sami	northern sami
Sanskrit	sanskrit	serbo-croatian	serbocroatian
Serbo-Croatian	serbocroatian	Serbian	serbian
serbianc	serbian	Croatian	croatian
Slovak	slovak	Slovenian	slovenian
Sorbian	sorbian	Lowersorbian	lowersorbian
Uppersorbian	uppersorbian	lsorbian	lowersorbian
usorbian	uppersorbian	lower sorbian	lowersorbian
upper sorbian	uppersorbian	Lower Sorbian	lowersorbian
Upper Sorbian	uppersorbian	Spanglish	spanglish
Spanish	spanish	Swedish	swedish
swiss	swissgerman	Swiss	swiss
Swissgerman	swissgerman	swiss german	swissgerman
Swiss German	swiss german	Tamil	tamil
Telugu	telugu	Thai	thai
thaicjk	thai	Thaicjk	thaicjk
Tibetan	tibetan	Turkish	turkish
Turkmen	turkmen	Ukrainian	ukrainian
Vietnamese	vietnamese	Welsh	welsh

These languages *should* cover all languages which are currently covered by babel and polyglossia but very likely this is not the case. Should you miss a language please send me an email so I can add it to **TRANSLATIONS**.

```
1 %
2 % the TRANSLATIONS package
3 %
4 % a simple translator
5 %
6 %
-----
7 % Clemens Niederberger
8 % Web: https://github.com/cgnieder/translations
```

```
9 % E-Mail: contact@mychemistry.eu
10 % -----
11 % Copyright 2012 Clemens Niederberger
13 % This work may be distributed and/or modified under the
14 % conditions of the LaTeX Project Public License, either version 1.3
_{15} % of this license or (at your option) any later version.
16 % The latest version of this license is in
17 % http://www.latex-project.org/lppl.txt
18 % and version 1.3 or later is part of all distributions of LaTeX
19 % version 2005/12/01 or later.
21 % This work has the LPPL maintenance status 'maintained'.
23 % The Current Maintainer of this work is Clemens Niederberger.
24 %
25 % If you have any ideas, questions, suggestions or bugs to report, please
26 % feel free to contact me.
27 % -----
28 \def\@trnslt@date{2013/09/30}
29 \def\@trnslt@version{v1.1a}
30 \def\@trnslt@info{internationalization of LaTeX2e packages}
32 \ProvidesPackage{translations}[\@trnslt@date\space \@trnslt@version\space \
   @trnslt@info\space (CN)]
33 \RequirePackage{etoolbox,scrlfile}
34
35 % -----
36 % message handling
37 \def\@trnslt@error@message{%
   For details have a look at the 'translations' manual.}
38
40 \def\@trnslt@create@message#1{%
   \ifstrequal{#1}{Error}
41
42
       \lowercase{\csdef{@trnslt@#1}}##1{%
43
         \csuse{Package#1}{translations}{##1}{\csuse{Package#1}}%
45
       \lowercase{\csdef{@trnslt@#1}}##1{%
46
         \csuse{Package#1}{translations}{##1}}%
47
     }}
49 \@trnslt@create@message{Error}
50 \@trnslt@create@message{Warning}
51 \@trnslt@create@message{WarningNoLine}
52 \@trnslt@create@message{Info}
53
54 \def\@trnslt@err@unknown@lang#1{%
   \@trnslt@error{Unknown language '#1'}}
```

```
57 \def\@trnslt@warn@unknown@lang#1{%
           \@trnslt@warning{Unknown language '#1'}}
 59
 60 \def\@trnslt@err@already@defined#1#2{%
           \@trnslt@error{The #2 translation for '#1' is already defined.}}
 61
 62
 63 \def\@trnslt@err@not@defined#1#2{%
           \@trnslt@error{The \@trnslt@language{#2} translation for '#1' is not defined yet
 65
 67 % catcode stuff:
 68 \DeclareListParser*{\@trnslt@map@tokenlist}{}
 70 \def\@trnslt@save@catcodes#1{%
           \@trnslt@map@tokenlist\@trnslt@save@catcode{#1}%
 71
 <sub>72</sub> }
 73 \def\@trnslt@save@catcode#1{%
        \csedef{@trnslt@catcode@#1}{\the\catcode'#1}%
 74
 <sub>75</sub> }
 76
 77 \def\@trnslt@restore@catcodes#1{%
           \@trnslt@map@tokenlist\@trnslt@restore@catcode{#1}%
 79 }
 80 \protected\def\@trnslt@restore@catcode#1{%
           \catcode'#1=\csname @trnslt@catcode@#1\endcsname
 82 }
 83
 84 \def\@trnslt@set@catcodes#1#2{%
           \label{lem:local_code} $$ \operatorname{list}(\operatorname{catcode}\{\#2\})_{\#1}^{\ }$ 
 86 }
 87 \def\@trnslt@set@catcode#1#2{%
           \catcode'#2=#1\relax
 88
 89 }
 90
 92 % check if babel or polyglossia is used
 93 \AtEndPreamble{
           \@ifpackageloaded{babel}{}{
 94
                 \@ifpackageloaded{polyglossia}{}
 95
                       {\ensuremath{\mbox{\sc def}}\xspace} \xspace found. I am going to use 'english' is a second of the second of the
                           as default language.}}
 97
 98
           \ifdef\languagename{}
 99
                 {\def\languagename{english}}
100
           \def\@trnslt@current@language{\languagename}
101
           \ifdef\bbl@afterfi{}
102
                 {\long\def\bbl@afterfi#1\fi{\fi#1}}
103
104 }
```

```
105
106 %
107 % book keeping: the following macros will be used as 'etoolbox' lists that
108 % keep record of defined languages, dialects and aliases
109 \def\@trnslt@languages{}% all languages
\def\@trnslt@aliases@pair{}% all aliases and their base
\def\@trnslt@aliases@single{}% all aliases
\def\@trnslt@dialects@pair{}% all dialects and their base
  \def\@trnslt@dialects@single{}% all dialects
114
    ______
116 % define \@trnslt@if@<name> conditionals that don't leave the checked macro as
117 % \relax behind and check for \@trnslt@<name>@#1. These conditionals should
118 % also be expandable in an \edef-like context. Thanks to e-TeX there's
119 % \ifcsname:
120 \def\@trnslt@new@check#1{%
    \csdef{@trnslt@if@#1}##1{%
121
      \ifcsname @trnslt@#1@##1\endcsname
122
        \expandafter\@firstoftwo
123
      \else
124
        \expandafter\@secondoftwo
125
      \fi
    }%
127
128 }
129
  \long\def\@trnslt@get@lowercase#1{%
    \lowercase\expandafter{\romannumeral-'\Q#1}%
132
133 }
134
135 % -----
136 % \DeclareLanguage
137 % #1: language
_{138} \mbox{ } \mbox{\  localareLanguage[1]{}}
    \@trnslt@declare@language{#1}}
  \@onlypreamble\DeclareLanguage
141
  \def\@trnslt@declare@language#1{%
    \@trnslt@if@language{#1}
143
      {}{%
144
        \csdef{@trnslt@language@#1}{#1}%
145
        \listeadd\@trnslt@languages{#1}%
146
147
148 }
  \def\@trnslt@language#1{%
    \csuse{@trnslt@language@#1}}
151
152
_{153} \mbox{ } \mbox{\ensuremath{newcommand}*\baselanguage[1]{\ensuremath{\cline{chi}} etrnslt@language{\#1}}}
```

```
154
_{155} % define \@trnslt@if@language{#1}{}{} that actually checks the existence of
156 % \@trnslt@language@#1:
  \@trnslt@new@check{language}
158
159
  % \DeclareLanguageDialect
161 % #1: dialect
  % #2: language
162
  \newrobustcmd*\DeclareLanguageDialect[2]{%
     \@trnslt@declare@languagedialect{#1}{#2}}
   \@onlypreamble\DeclareLanguageDialect
165
166
   \def\@trnslt@declare@languagedialect#1#2{%
167
     \@trnslt@if@language{#2}
168
169
         \@trnslt@warn@unknown@lang{#2}%
170
         \@trnslt@declare@language{#2}%
171
       }%
172
     \@trnslt@if@dialect{#1}
173
       {% => ist schon als dialect definiert => irgendwelche weiteren checks?
174
       }
       {%
176
         \@trnslt@if@alias{#2}
177
           {%
178
             \csedef{@trnslt@dialect@#1}{{\@trnslt@alias{#2}}{#1}}%
             \@trnslt@declare@language{#1}%
             \listeadd\@trnslt@dialects@single{#1}%
181
             \listeadd\@trnslt@dialects@pair{{#1}{\@trnslt@alias{#2}}}%
182
           }
183
           {%
184
             \csdef{@trnslt@dialect@#1}{{#2}{#1}}%
185
             \@trnslt@declare@language{#1}%
186
             \listeadd\@trnslt@dialects@single{#1}%
             \listeadd\@trnslt@dialects@pair{{#1}{#2}}%
           }%
189
       }%
190
191
192
  \def\@trnslt@dialect#1{%
193
     \csuse{@trnslt@dialect@#1}}
195
  % this macros fetches the base language for a given dialect, expandably:
196
  \def\@trnslt@dialect@of#1{%
197
     \@trnslt@if@dialect{#1}
198
       {%
199
         \expandafter\expandafter\expandafter
200
         \@firstoftwo
201
         \csname @trnslt@dialect@#1\endcsname
```

```
}{}%
203
204 }
_{206} % define \ensuremath{\text{@trnslt@if@dialect}}{\#1}{} that actually checks the existence of
  % \@trnslt@dialect@#1:
208 \@trnslt@new@check{dialect}
    ______
  % \DeclareLanguageAlias
211
212 % #1: alias
213 % #2: language
114 \newrobustcmd*\DeclareLanguageAlias[2]{%
    \@trnslt@declare@languagealias{#1}{#2}}
  \@onlypreamble\DeclareLanguageAlias
216
217
  \def\@trnslt@declare@languagealias#1#2{%
    \@trnslt@if@language{#2}
219
      {}{%
220
         \@trnslt@warn@unknown@lang{#2}%
         \@trnslt@declare@language{#2}%
222
      }%
223
    \verb|\csletcs{@trnslt@language@#1}{@trnslt@language@#2}%|
224
    \@trnslt@if@dialect{#2}
225
      {\csletcs{@trnslt@dialect@#1}{@trnslt@dialect@#2}}
226
      {}%
227
    \ifinlist{#1}\@trnslt@aliases@single
228
      {}{%
229
         \csdef{@trnslt@alias@#1}{#2}%
230
        \listeadd\@trnslt@aliases@pair{{#1}{#2}}%
231
        \listeadd\@trnslt@aliases@single{#1}%
232
      }%
233
234 }
235
_{236} \ \def\@trnslt@alias\#1{\%}
    \csuse{@trnslt@alias@#1}}
237
238
_{239} % define \@trnslt@if@alias{#1}{}{} that actually checks the existence of
<sub>240</sub> % \@trnslt@alias@#1:
241 \@trnslt@new@check{alias}
242
244 % dummy language: 'fallback':
245 \DeclareLanguage{fallback}
246 \DeclareLanguageAlias{Fallback}{fallback}
248 % -----
249 % \DeclareTranslation, \NewTranslation and \RenewTranslation
250 % #1: language
<sub>251</sub> % #2: word
```

```
252 % #3: replacement
       \newrobustcmd*\DeclareTranslation[3]{%
            \@trnslt@declare@translation{#2}{#1}{#3}}
       \@onlypreamble\DeclareTranslation
255
256
       \newrobustcmd*\DeclareTranslationFallback[2]{%
257
            \@trnslt@declare@translation{#1}{fallback}{#2}}
       \@onlypreamble\DeclareTranslationFallback
259
260
       \newrobustcmd*\NewTranslation[3]{%
261
            \@trnslt@new@translation{#2}{#1}{#3}}
       \@onlypreamble\NewTranslation
263
264
       \newrobustcmd*\RenewTranslation[3]{%
265
            \@trnslt@renew@translation{#2}{#1}{#3}}
       \@onlypreamble\RenewTranslation
267
268
       % #1: word
260
       % #2: language
       % #3: replacement
       \def\@trnslt@declare@translation#1#2#3{%
            \@trnslt@if@language{#2}
274
                      \@trnslt@if@dialect{#2}
275
                           {%
276
                                \csdef{@trnslt@word@#1@\@trnslt@dialect{#2}}{#3}%
                                \@trnslt@if@word\@trnslt@dialect@of{#1}{#2}
278
279
                                     {\csdef{@trnslt@word@#1@\elect@of{#2}}{#3}}%
280
                          }
281
                           {\csdef{\csdef{\csdef{\csdef}\def{\csdef}\def{\csdef}\def{\csdef}\def{\csdef}\def{\csdef}\def{\csdef}\def{\csdef}\def{\csdef}\def{\csdef}\def{\csdef}\def{\csdef}\def{\csdef}\def{\csdef}\def{\csdef}\def{\csdef}\def{\csdef}\def{\csdef}\def{\csdef}\def{\csdef}\def{\csdef}\def{\csdef}\def{\csdef}\def{\csdef}\def{\csdef}\def{\csdef}\def{\csdef}\def{\csdef}\def{\csdef}\def{\csdef}\def{\csdef}\def{\csdef}\def{\csdef}\def{\csdef}\def{\csdef}\def{\csdef}\def{\csdef}\def{\csdef}\def{\csdef}\def{\csdef}\def{\csdef}\def{\csdef}\def{\csdef}\def{\csdef}\def{\csdef}\def{\csdef}\def{\csdef}\def{\csdef}\def{\csdef}\def{\csdef}\def{\csdef}\def{\csdef}\def{\csdef}\def{\csdef}\def{\csdef}\def{\csdef}\def{\csdef}\def{\csdef}\def{\csdef}\def{\csdef}\def{\csdef}\def{\csdef}\def{\csdef}\def{\csdef}\def{\csdef}\def{\csdef}\def{\csdef}\def{\csdef}\def{\csdef}\def{\csdef}\def{\csdef}\def{\csdef}\def{\csdef}\def{\csdef}\def{\csdef}\def{\csdef}\def{\csdef}\def{\csdef}\def{\csdef}\def{\csdef}\def{\csdef}\def{\csdef}\def{\csdef}\def{\csdef}\def{\csdef}\def{\csdef}\def{\csdef}\def{\csdef}\def{\csdef}\def{\csdef}\def{\csdef}\def{\csdef}\def{\csdef}\def{\csdef}\def{\csdef}\def{\csdef}\def{\csdef}\def{\csdef}\def{\csdef}\def{\csdef}\def{\csdef}\def{\csdef}\def{\csdef}\def{\csdef}\def{\csdef}\def{\csdef}\def{\csdef}\def{\csdef}\def{\csdef}\def{\csdef}\def{\csdef}\def{\csdef}\def{\csdef}\def{\csdef}\def{\csdef}\def{\csdef}\def{\csdef}\def{\csdef}\def{\csdef}\def{\csdef}\def{\csdef}\def{\csdef}\def{\csdef}\def{\csdef}\def{\csdef}\def{\csdef}\def{\csdef}\def{\csdef}\def{\csdef}\def{\csdef}\def{\csdef}\def{\csdef}\def{\csdef}\def{\csdef}\def{\csdef}\def{\csdef}\def{\csdef}\def{\csdef}\def{\csdef}\def{\csdef}\def{\csdef}\def{\csdef}\def{\csdef}\def{\csdef}\def{\csdef}\def{\csdef}\def{\csdef}\def{\csdef}\def{\csdef}\def{\csdef}\def{\csdef}\def{\csdef}\def{\csdef}\def{\csdef}\def{\csdef}\def{\csdef}\def{\csdef}\def{\csdef}\def{\csdef}\def{\csdef}\def{\csdef}\def{\csdef}\def{\csdef}\def{\csdef}\def{\csdef}\def{\csdef}\def{\csdef}\def{\csdef}\def{\csdef
282
                      % save the <word> as <word>:
283
                      \csdef{@trnslt@word@#1@literal}{#1}%
284
285
                 {\ensuremath{\cline{100}}}\%
287 }
288
       \def\@trnslt@new@translation#1#2#3{%
            \@trnslt@if@word\@trnslt@language{#1}{#2}
290
                 {\@trnslt@err@already@defined{#1}{#2}}
291
                 {\@trnslt@declare@translation{#1}{#2}{#3}}}
       \def\@trnslt@renew@translation#1#2#3{%
294
            \@trnslt@if@word\@trnslt@language{#1}{#2}
295
                 {\@trnslt@declare@translation{#1}{#2}{#3}}
296
                 {\@trnslt@err@not@defined{#1}{#2}}}
297
298
200
300 % now let's go through some trouble to check if a translation exists:
```

```
_{301} \def\ensuremath{\mbox{def}\mbox{\mbox{$\mbox{def}$\mbox{$\mbox{$\mbox{$\mbox{$}\mbox{$\mbox{$}\mbox{$}\mbox{$\mbox{$}\mbox{$}\mbox{$}\mbox{$\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\
             \ifcsname @trnslt@word@#2@#1{#3}\endcsname
                   \expandafter\@firstoftwo
             \else
304
                   \expandafter\@secondoftwo
305
             \fi
306
       }%
308
        \def\@trnslt@if@translation#1#2{%
309
             \@trnslt@if@word\@trnslt@language{#1}{#2}
                   {\expandafter\@firstoftwo}
311
312
                        \@trnslt@if@dialect{#2}
313
                               {%
314
                                    \@trnslt@if@word\@trnslt@dialect{#1}{#2}
315
                                         {\expandafter\@firstoftwo}
316
                                         {%
317
                                               \@trnslt@if@word\@trnslt@dialect@of{#1}{#2}
                                                     {\expandafter\@firstoftwo}
319
                                                     {\expandafter\@secondoftwo}%
320
                                         }
321
322
                              }
                               {\expandafter\@secondoftwo}%
323
324
       }
325
327
            \GetTranslationFor and \GetTranslation
328
       % these need to be expandable!
       % #1: language
       % #2: word
331
       \newcommand*\GetTranslationFor[2]{%
332
             \@trnslt@checkandget@translation@for{#2}{#1}}
333
334
        \newcommand*\GetTranslation[1]{%
335
             \@trnslt@checkandget@translation@for{#1}{\@trnslt@current@language}}
336
337
        \newcommand*\GetLCTranslationFor[2]{%
338
             \@trnslt@get@lowercase{\@trnslt@checkandget@translation@for{#2}{#1}}%
339
       }
340
        \newcommand*\GetLCTranslation[1]{%
342
             \@trnslt@get@lowercase{%
343
                   \@trnslt@checkandget@translation@for{#1}{\@trnslt@current@language}%
344
             }%
345
346 }
347
_{348} % unexpandable version of the commands that raise a warning if no translation
349 % is available:
```

```
\newcommand*\GetTranslationForWarn[2]{%
     \@trnslt@getandwarn@translation@for{#2}{#1}}
351
   \newcommand*\GetTranslationWarn[1]{%
353
     \@trnslt@getandwarn@translation@for{#1}{\@trnslt@current@language}}
354
355
   \newcommand*\GetLCTranslationForWarn[2]{%
356
     \@trnslt@getandwarn@lctranslation@for{#2}{#1}}
357
358
   \newcommand*\GetLCTranslationWarn[1]{%
     \@trnslt@getandwarn@lctranslation@for{#1}{\@trnslt@current@language}}
361
  % #1: word #2: language
362
   \def\@trnslt@get@translation@for#1#2{%
363
     \@trnslt@if@dialect{#2}
365
         \ifcsdef{@trnslt@word@#1@\@trnslt@dialect{#2}}
366
           {\csuse{@trnslt@word@#1@\@trnslt@dialect{#2}}}
           \c {\c suse {\it atrnslt@word@#1@\e trnslt@dialect@of{#2}}}
369
       {\csuse{@trnslt@word@#1@\@trnslt@language{#2}}}%
370
371
372
   \def\@trnslt@checkandget@translation@for#1#2{%
373
     \@trnslt@if@translation{#1}{#2}
374
       {\@trnslt@get@translation@for{#1}{#2}}
       {%
376
         \@trnslt@if@translation{#1}{fallback}
377
           {\csuse{@trnslt@word@#1@fallback}}
378
           {\csuse{@trnslt@word@#1@literal}}%
379
       }%
380
381 }
382
  % this is not expandable!
   \protected\def\@trnslt@getandwarn@translation@for#1#2{%
     \@trnslt@if@translation{#1}{#2}
385
       {\@trnslt@get@translation@for{#1}{#2}}
386
       {%
387
         \@trnslt@warning{Translation for '#1' in #2 unknown. You may try to use
388
           \string\DeclareTranslation{#2}{#1}{ ... } in your preamble.}%
389
         \@trnslt@if@translation{#1}{fallback}
           {%
391
             392
             \csuse{@trnslt@word@#1@fallback}
393
           {\csuse}{\draw = {\csuse}{\draw = 10literal}}
395
       }%
396
397 }
```

```
% lowercase version for translation with warnings:
  \protected\def\@trnslt@getandwarn@lctranslation@for#1#2{%
     \@trnslt@if@translation{#1}{#2}
       {\@trnslt@get@lowercase{\@trnslt@get@translation@for{#1}{#2}}}
402
      {%
403
         \@trnslt@warning{Translation for '#1' in #2 unknown. You may try to use
404
           \string\DeclareTranslation{#2}{#1}{ ... } in your preamble.}%
         \@trnslt@if@translation{#1}{fallback}
406
           {%
407
             \@trnslt@info{Using fallback translation for '#1'}%
             \@trnslt@get@lowercase{\csuse{@trnslt@word@#1@fallback}}%
410
           411
412
413 }
414
415
  % \SaveTranslationFor and \SaveTranslation
  \newrobustcmd*\SaveTranslationFor[3]{%
     \@trnslt@save@translation@for{#1}{#3}{#2}}
418
419
  \newrobustcmd*\SaveTranslation[2]{%
    \@trnslt@save@translation@for{#1}{#2}{\@trnslt@current@language}}
421
422
  \def\@trnslt@save@translation@for#1#2#3{%
423
    \edef#1{%
      \@trnslt@if@translation{#2}{#3}
425
         {\csuse{@trnslt@word@#2@\@trnslt@language{#3}}}
426
         {}%
427
    }}
428
429
430
431 % \LoadDictionary and \LoadDictionaryFor
  \newrobustcmd*\LoadDictionary[1]{%
     \@trnslt@load@dictionary@for{#1}{\@trnslt@current@language}}
433
  \@onlypreamble\LoadDictionary
434
435
436
  \newrobustcmd*\LoadDictionaryFor[2]{%
    \@trnslt@load@dictionary@for{#2}{#1}}
437
  \@onlypreamble\LoadDictionaryFor
438
439
440 % #1: name
441 % #2: lang
442 \def\@trnslt@load@dictionary@for#1#2{%
    \AtBeginDocument{%
      \InputIfFileExists{#1-\@trnslt@language{#2}.trsl}
444
         {\@trnslt@check@dictionary{#1}{#2}}
445
         {\@trnslt@warning{dictionary file '#1-\@trnslt@language{#2}.trsl' not
446
             found.}}%
447
```

```
}}
448
   \def\@trnslt@check@dictionary#1#2{%
     \AfterFile{#1-\@trnslt@language{#2}.trsl}
451
452
         \ifcsdef{@trnslt@dictionary@#1@\@trnslt@language{#2}}
453
            {\@trnslt@info{loading dictionary '#1' for '#2'.}}
454
455
              \@trnslt@warning{file '#1-\@trnslt@language{#2}.trsl' does not
456
                appear to be a dictionary}%
457
           }%
458
       }%
459
460 }
461
   \def\@trnslt@if@dictionary#1#2{%
     \IfFileExists{#1-#2.trsl}}
463
   \def\@trnslt@load@dictionary@silent@for#1#2{%
     \InputIfFileExists{#1-#2.trsl}{}{}}
467
   \newrobustcmd*\ProvideDictionaryFor[2]{%
468
     \@trnslt@provide@dictionary@for{#1}{#2}}
   \@onlypreamble\ProvideDictionaryFor
470
471
   \def\@trnslt@provide@dictionary@for#1#2{%
472
     \def\@trnslt@dictionary@name{#2}%
     \edef\@trnslt@dictionary@lang{\@trnslt@language{#1}}%
474
     % this macro can be used to check if we have a dictionary and will also be
475
     % used as a list for the dictionary entries:
476
     \csdef{@trnslt@dictionary@\@trnslt@dictionary@name @\@trnslt@dictionary@lang}{}%
477
     \@ifnextchar[
478
       {\@trnslt@provide@dictionary@version}
479
       {
480
         \ProvidesFile
481
            {#2-\@trnslt@dictionary@lang.trsl}%
482
            [(\@trnslt@dictionary@lang\space translation file '#2')]
483
       }%
484
485
486
   \def\@trnslt@provide@dictionary@version[#1]{%
487
     \ProvidesFile
488
       {\tt \{\dictionary@name-\dirnslt@dictionary@lang.trsl\}\%}
        [(\ensuremath{\mbox{\tt dictionary@lang}\space translation file '\ensuremath{\mbox{\tt dictionary@name'}}) $$
490
    #1]}
491
   % \@trnslt@dictionary@language
   \newrobustcmd*\DeclareDictTranslation[2]{%
493
     \listcsadd
494
       \{ @trnslt@dictionary@ \ @trnslt@dictionary@ name \ @ \ @trnslt@dictionary@ lang \} \\
```

```
{{#1}{#2}}%
496
                       \@trnslt@declare@translation{#1}{\@trnslt@dictionary@lang}{#2}%
 497
498 }
499 \@onlypreamble\DeclareDictTranslation
500
501 % \PrintDictionaryFor
_{502} % #1: lang
503 % #2: name
504 % #3: pre
505 % #4: mid
 506 % #5: post
507 \newcommand*\PrintDictionaryFor[5]{%
                      \@trnslt@print@dictionary@for{#1}{#2}{#3}{#4}{#5}}
510 % #1: lang
511 % #2: name
512 % #3: pre
513 % #4: mid
514 % #5: post
515 \def\@trnslt@print@dictionary@for#1#2#3#4#5{%
                     \forlistcsloop
                                 \{\enskip with the distribution of the context of
                                 518
519 }
520
<sub>521</sub> % #1: pre
522 % #2: mid
523 % #3: post
524 % #4: {key}{translation}
_{525} \def\@trnslt@print@dictionary@entry#1#2#3#4{%
                      \ensuremath{\verb|dictionary||} \ensuremath{\ensuremath{dictionary||}} \en
526
527
<sub>528</sub> % #1: pre
529 % #2: mid
530 % #3: post
<sub>531</sub> % #4: key
532 % #5: translation
533 \def\@trnslt@print@dictionary@entry@aux#1#2#3#4#5{#1#4#2#5#3}
534
535 % -----
536 % predefined languages
537 \DeclareLanguage{afrikaans}
538 \DeclareLanguage{albanian}
539 \DeclareLanguage{amharic}
540 \DeclareLanguage{arabic}
541 \DeclareLanguage{armenian}
542 \DeclareLanguage{asturian}
543 \DeclareLanguage{basque}
544 \DeclareLanguage{bengali}
```

```
545 \DeclareLanguage{breton}
546 \DeclareLanguage{bulgarian}
547 \DeclareLanguage{catalan}
548 \DeclareLanguage{coptic}
549 \DeclareLanguage{czech}
550 \DeclareLanguage{danish}
551 \DeclareLanguage{dutch}
552 \DeclareLanguage{english}
553 \DeclareLanguage{esperanto}
554 \DeclareLanguage{estonian}
555 \DeclareLanguage{ethiop}
556 \DeclareLanguage{farsi}
557 \DeclareLanguage{finnish}
558 \DeclareLanguage{french}
559 \DeclareLanguage{friulan}
560 \DeclareLanguage{gaelic}
561 \DeclareLanguage{galician}
562 \DeclareLanguage{german}
563 \DeclareLanguage{greek}
564 \DeclareLanguage{hebrew}
565 \DeclareLanguage{hindustani}
566 \DeclareLanguage{hungarian}
567 \DeclareLanguage{icelandic}
568 \DeclareLanguage{interlingua}
569 \DeclareLanguage{italian}
570 \DeclareLanguage{japanese}
571 \DeclareLanguage{kannada}
572 \DeclareLanguage{ladin}
573 \DeclareLanguage{lao}
574 \DeclareLanguage{latin}
575 \DeclareLanguage{latvian}
576 \DeclareLanguage{lithuanian}
577 \DeclareLanguage{malay}
578 \DeclareLanguage{malayalam}
579 \DeclareLanguage{maldivian}
580 \DeclareLanguage{marathi}
581 \DeclareLanguage{mongolian}
_{582} % polyglossia seems to support this one but it is unclear which language is
583 % actually meant by it:
584 % \DeclareLanguage{nko}
585 \DeclareLanguage{norwegian}
586 \DeclareLanguage{occitan}
587 \DeclareLanguage{piedmontese}
588 \DeclareLanguage{pinyin}
589 \DeclareLanguage{polish}
590 \DeclareLanguage{portuges}
591 \DeclareLanguage{romanian}
592 \DeclareLanguage{romansh}
593 \DeclareLanguage{russian}
```

```
594 \DeclareLanguage{samin}
595 \DeclareLanguage{sanskrit}
596 \DeclareLanguage{serbocroatian}
  \DeclareLanguage{slovak}
598 \DeclareLanguage{slovenian}
599 \DeclareLanguage{sorbian}
600 % not sure about this: isn't it either a Spanish or English dialect?
601 \DeclareLanguage{spanglish}
602 \DeclareLanguage{spanish}
603 \DeclareLanguage{swedish}
604 % polyglossia seems to support this one but it is unclear which language is
605 % actually meant by it:
666 % \DeclareLanguage{syriac}
607 \DeclareLanguage{tamil}
608 \DeclareLanguage{telugu}
609 \DeclareLanguage{thai}
610 \DeclareLanguage{tibetan}
611 \DeclareLanguage{turkish}
612 \DeclareLanguage{turkmen}
613 \DeclareLanguage{ukrainian}
614 \DeclareLanguage{vietnamese}
615 \DeclareLanguage{welsh}
    _____
617
618 % aliases and dialects:
_{619} \DeclareLanguageAlias {Afrikaans}{afrikaans}
620 \DeclareLanguageAlias {Albanian}{albanian}
621 \DeclareLanguageAlias {Amharic}{amharic}
622 \DeclareLanguageAlias {Arabic}{arabic}
623 \DeclareLanguageAlias {Armenian}{armenian}
624 \DeclareLanguageAlias {Asturian}{asturian}
625 \DeclareLanguageAlias {astur-leonese}{asturian}
626 \DeclareLanguageAlias {Astur-Leonese} {astur-leonese}
627 \DeclareLanguageAlias {asturian-leonese}{asturian}
628 \DeclareLanguageAlias
                         {Asturian-Leonese}{asturian-leonese}
629 \DeclareLanguageAlias
                         {Basque}{basque}
                         {Bengali}{bengali}
630 \DeclareLanguageAlias
631 \DeclareLanguageAlias {Breton}{breton}
632 \DeclareLanguageAlias {Bulgarian}{bulgarian}
633 \DeclareLanguageAlias {Catalan}{catalan}
634 \DeclareLanguageAlias {Coptic}{coptic}
635 \DeclareLanguageAlias {coptic egyptian}{coptic}
636 \DeclareLanguageAlias {Coptic Egyptian}{coptic egyptian}
637 \DeclareLanguageAlias {Czech}{czech}
638 \DeclareLanguageAlias {Danish}{danish}
639 \DeclareLanguageAlias {Dutch}{dutch}
640 \DeclareLanguageAlias {Farsi}{farsi}
641 \DeclareLanguageAlias {Finnish}{finnish}
642 \DeclareLanguageAlias {francais}{french}
```

```
643 \DeclareLanguageAlias {Francais}{francais}
644 \DeclareLanguageDialect{canadien}{french}
645 \DeclareLanguageAlias {Canadien}{canadien}
646 \DeclareLanguageAlias {French}{french}
647 \DeclareLanguageDialect{acadian}{french}
648 \DeclareLanguageAlias {Acadian}{acadian}
649 \DeclareLanguageAlias {frenchle}{french}
650 \DeclareLanguageDialect{american}{english}
651 \DeclareLanguageAlias {American}{american}
652 \DeclareLanguageDialect{australian}{english}
653 \DeclareLanguageAlias {Australian}{australian}
654 \DeclareLanguageDialect{british}{english}
655 \DeclareLanguageAlias {British}{british}
656 \DeclareLanguageDialect{canadian}{english}
657 \DeclareLanguageAlias {Canadian}{canadian}
658 \DeclareLanguageAlias {English}{english}
659 \DeclareLanguageAlias {UKenglish}{british}
660 \DeclareLanguageAlias {USenglish}{american}
661 \DeclareLanguageDialect{newzealand}{english}
662 \DeclareLanguageAlias {Newzealand}{newzealand}
663 \DeclareLanguageAlias
                          {Ethiop}{ethiop}
664 \DeclareLanguageAlias {Esperanto}{esperanto}
665 \DeclareLanguageAlias {Estonian}{estonian}
666 \DeclareLanguageAlias {Friulan}{friulan}
667 \DeclareLanguageAlias {Gaelic}{gaelic}
668 \DeclareLanguageDialect{irish}{gaelic}
669 \DeclareLanguageDialect{scottish}{gaelic}
670 \DeclareLanguageAlias {Irish}{irish}
671 \DeclareLanguageAlias {irish gaelic}{irish}
672 \DeclareLanguageAlias {Irish Gaelic}{irish}
673 \DeclareLanguageAlias
                         {Scottish}{scottish}
674 \DeclareLanguageAlias
                         {scottish gaelic}{scottish}
675 \DeclareLanguageAlias
                          {Scottish Gaelic}{scottish}
676 \DeclareLanguageAlias
                          {Galician}{galician}
677 \DeclareLanguageAlias
                          {German}{german}
678 \DeclareLanguageAlias
                          {germanb}{german}
679 \DeclareLanguageAlias
                          {ngerman}{german}
680 \DeclareLanguageDialect{austrian}{german}
681 \DeclareLanguageAlias
                         {Austrian}{austrian}
682 \DeclareLanguageAlias
                         {naustrian}{austrian}
683 \DeclareLanguageAlias
                         {Greek}{greek}
684 \DeclareLanguageAlias
                         {polutonikogreek}{greek}
685 \DeclareLanguageAlias
                          {ibygreek}{greek}
686 \DeclareLanguageAlias
                          {bgreek}{greek}
687 \DeclareLanguageAlias
                          {Hebrew}{hebrew}
688 \DeclareLanguageAlias
                         {Hindustani}{hindustani}
689 \DeclareLanguageAlias {hindi-urdu}{hindustani}
690 \DeclareLanguageAlias {Hindi-Urdu}{hindi-urdu}
691 \DeclareLanguageDialect{hindi}{hindustani}
```

```
692 \DeclareLanguageAlias {Hindi}{hindi}
693 \DeclareLanguageDialect{urdu}{hindustani}
  \DeclareLanguageAlias
                          {Urdu}{urdu}
  \DeclareLanguageAlias
                          {Hungarian}{hungarian}
  \DeclareLanguageAlias
                          {magyar}{hungarian}
697 \DeclareLanguageAlias
                          {Magyar}{magyar}
698 \DeclareLanguageAlias
                          {Icelandic}{icelandic}
  \DeclareLanguageAlias
                          {Interlingua}{interlingua}
  \DeclareLanguageAlias
                          {Italian}{italian}
701 \DeclareLanguageAlias
                          {Japanese}{japanese}
702 \DeclareLanguageAlias
                          {Kannada}{kannada}
  \DeclareLanguageAlias
                          {Ladin}{ladin}
704 \DeclareLanguageAlias
                          {Lao}{lao}
705 \DeclareLanguageAlias
                          {laotian}{lao}
706 \DeclareLanguageAlias
                          {Laotian}{laotian}
707 \DeclareLanguageAlias
                          {Latin}{latin}
708 \DeclareLanguageAlias
                          {Latvian}{latvian}
  \DeclareLanguageAlias
                          {lettish}{latvian}
  \DeclareLanguageAlias
                          {Lettish}{lettish}
  \DeclareLanguageAlias
                          {Lithuanian}{lithuanian}
712 % hopefully someone who knows better than me can comment on these
713 \DeclareLanguageAlias {Malay}{malay}
  \DeclareLanguageDialect{indonesian}{malay}
  \DeclareLanguageAlias
                          {Indonesian}{indonesian}
716 \DeclareLanguageAlias
                          {indon}{indonesian}
  \DeclareLanguageAlias
                          {bahasa meyalu}{malay}
                          {Bahasa Meyalu}{bahasa meyalu}
  \DeclareLanguageAlias
  \DeclareLanguageAlias
                          {bahasa}{bahasa meyalu}
720 \DeclareLanguageAlias
                          {Bahasa}{bahasa}
721 \DeclareLanguageAlias
                          {bahasai}{bahasa}
722 \DeclareLanguageAlias
                          {bahasam}{bahasa}
723 \DeclareLanguageAlias
                          {Malayalam}{malayalam}
724 \DeclareLanguageAlias
                          {Maldivian}{maldivian}
  \DeclareLanguageAlias
                          {divehi}{maldivian}
  \DeclareLanguageAlias
                          {Divehi}{divehi}
  \DeclareLanguageAlias
                           {Marathi}{marathi}
728 \DeclareLanguageAlias
                           {Mongolian}{mongolian}
  % \DeclareLanguageAlias
                            {Syriac}{syriac}
  \DeclareLanguageAlias
                          {norsk}{norwegian}
  \DeclareLanguageAlias
                          {Norsk}{norsk}
  \DeclareLanguageAlias
                          {Norwegian}{norwegian}
  \DeclareLanguageAlias
                          {nynorsk}{norwegian}
  \DeclareLanguageAlias
                          {Nynorsk}{nynorsk}
735 \DeclareLanguageAlias
                          {Occitan}{occitan}
736 \DeclareLanguageAlias
                          {lenga d'oc}{occitan}
737 \DeclareLanguageAlias
                          {langue d'oc}{occitan}
738 \DeclareLanguageAlias
                          {Piedmontese}{piedmontese}
739 \DeclareLanguageAlias
                          {piemontese}{piedmontese}
740 \DeclareLanguageAlias {Piemontese}{piemontese}
```

```
741 \DeclareLanguageAlias {piemonteis}{piedmontese}
742 \DeclareLanguageAlias
                          {Piemonteis}{piemonteis}
  \DeclareLanguageAlias
                          {Pinyin}{pinyin}
  \DeclareLanguageAlias
                          {Polish}{polish}
  \DeclareLanguageDialect{brazil}{portuges}
  \DeclareLanguageAlias
                          {Brazil}{brazil}
  \DeclareLanguageAlias
                          {brazilian}{brazil}
  \DeclareLanguageAlias
                          {Brazilian}{brazilian}
  \DeclareLanguageAlias
                          {Portuges}{portuges}
  \DeclareLanguageAlias
                          {portuguese}{portuges}
  \DeclareLanguageAlias
                          {Portuguese}{portuguese}
  \DeclareLanguageAlias
                          {Romanian}{romanian}
  \DeclareLanguageAlias
                          {Romansh}{romansh}
754 \DeclareLanguageAlias
                          {Romansch}{romansh}
755 \DeclareLanguageAlias
                          {Rumantsh}{romansh}
  \DeclareLanguageAlias
                          {Rumantsch}{romansh}
  \DeclareLanguageAlias
                          {Romanche}{romansh}
  \DeclareLanguageAlias
                          {Russian}{russian}
                          {Samin}{samin}
  \DeclareLanguageAlias
  \DeclareLanguageAlias
                          {north sami){samin}
  \DeclareLanguageAlias
                          {North Sami}{north sami}
762 \DeclareLanguageAlias
                          {northern sami}{north sami}
  \DeclareLanguageAlias
                          {Northern Sami}{northern sami}
  \DeclareLanguageAlias {Sanskrit}{sanskrit}
  % this one isn't needed, or is it?
  % \DeclareLanguageAlias {Serbocroatian}{serbocroatian}
  \DeclareLanguageAlias {serbo-croatian}{serbocroatian}
  \DeclareLanguageAlias {Serbo-Croatian}{serbocroatian}
  \DeclareLanguageDialect{serbian}{serbocroatian}
  \DeclareLanguageAlias {Serbian}{serbian}
  \DeclareLanguageAlias {serbianc}{serbian}
  \DeclareLanguageDialect{croatian}{serbocroatian}
  \DeclareLanguageAlias {Croatian}{croatian}
  \DeclareLanguageAlias {Slovak}{slovak}
  \DeclareLanguageAlias
                          {Slovenian}{slovenian}
  \DeclareLanguageAlias
                          {Sorbian}{sorbian}
  \DeclareLanguageDialect{lowersorbian}{sorbian}
  \DeclareLanguageDialect{uppersorbian}{sorbian}
  \DeclareLanguageAlias
                         {Lowersorbian}{lowersorbian}
  \DeclareLanguageAlias
                          {Uppersorbian}{uppersorbian}
  \DeclareLanguageAlias
                        {lsorbian}{lowersorbian}
  \DeclareLanguageAlias
                          {usorbian}{uppersorbian}
  \DeclareLanguageAlias
                          {lower sorbian}{lowersorbian}
784 \DeclareLanguageAlias
                          {upper sorbian}{uppersorbian}
<sub>785</sub> \DeclareLanguageAlias
                          {Lower Sorbian}{lowersorbian}
786 \DeclareLanguageAlias
                          {Upper Sorbian}{uppersorbian}
787 \DeclareLanguageAlias
                          {Spanglish}{spanglish}
788 \DeclareLanguageAlias
                          {Spanish}{spanish}
789 \DeclareLanguageAlias {Swedish}{swedish}
```

```
790 \DeclareLanguageDialect{swissgerman}{german}
791 % this is to be discussed: swiss could also be an alias of french, italian or
792 % romansh:
  \DeclareLanguageAlias {swiss}{swissgerman}
  \DeclareLanguageAlias
                         {Swiss}{swiss}
795 \DeclareLanguageAlias {Swissgerman}{swissgerman}
  \DeclareLanguageAlias {swiss german}{swissgerman}
  \DeclareLanguageAlias {Swiss German}{swiss german}
  \DeclareLanguageAlias {Tamil}{tamil}
  \DeclareLanguageAlias {Telugu}{telugu}
800 \DeclareLanguageAlias {Thai}{thai}
801 \DeclareLanguageAlias {thaicjk}{thai}
802 \DeclareLanguageAlias {Thaicjk}{thaicjk}
803 \DeclareLanguageAlias {Tibetan}{tibetan}
804 \DeclareLanguageAlias {Turkish}{turkish}
805 \DeclareLanguageAlias {Turkmen}{turkmen}
806 \DeclareLanguageAlias {Ukrainian}{ukrainian}
  \DeclareLanguageAlias {Vietnamese}{vietnamese}
  \DeclareLanguageAlias {Welsh}{welsh}
809
810
811 % load basic dictionary if available
  \AtBeginDocument{%
     \@trnslt@if@dialect{\@trnslt@current@language}
813
       {%
814
         \@trnslt@if@dictionary
815
           {translations-basic-dictionary}
816
           {\@trnslt@language{\@trnslt@current@language}}%
817
           {%
818
             \@trnslt@load@dictionary@silent@for
               {translations-basic-dictionary}
820
               {\@trnslt@language{\@trnslt@current@language}}%
821
          }%
822
           {%
             \@trnslt@load@dictionary@silent@for
824
               {translations-basic-dictionary}
825
               {\@trnslt@dialect@of{\@trnslt@current@language}}%
826
          }
      }
828
       {%
829
         \@trnslt@load@dictionary@silent@for
           {translations-basic-dictionary}
831
           832
833
834 }
835
  \endinput
836
837
```

Bibliography

```
839 % HISTORY:
840 2012/09/30 v0.2beta - first version (as part of the 'exsheets' bundle)
                       - \LoadDictionary and \LoadDictionaryFor added and loads of
841 2012/10/05 v0.2
                          languages defined.
842
843 2013/03/10 v0.8
                       - basic dictionaries for English, German, French and Spanish
                       - new command \DeclareDictTranslation
844
845 2013/04/04 v0.8a
                       - bug fix in \DeclareDictTranslation
846 2013/04/07 v0.9
                       - slightly improved messages
                       - changed fallback warning into info
847 2013/04/08 v0.9a
                       - synchronized version number with 'exsheets' until now but
848
                          won't any more
849
850 2013/06/22 v0.9b
                       - added Swiss
851 2013/06/28 v0.10
                       - declaring aliases of dialects now works as expected
                       - declarings dialects of an alias now correctly declares
852
                          the dialect to the correct base language
853
                       - corrected a few erroneous language declarations
854
                       - \GetTranslation gets two-folded fallback: use
  2013/07/12 v0.10a
855
                          fallback-translation if no translation for the current
856
                          language has been defined; use literal string if /no/
857
                          language is used - this should never happen but /will/
858
                          happen if neither 'babel' nor 'polyglossia' have been
859
                          loaded, i.e., no language has been chosen /and/ the
860
                          package writer did not provide an English translation
  2013/07/16 v1.0
                        - removed from 'exsheets' bundle - 'translations' should
862
                          be a package of it's own
863
                       - load basic dictionary automatically if available
864
                          rudimentary check in \LoadDictionary if loaded file is a
865
                          dictionary
866
                       - new command \PrintDictionaryFor
867
                       - redefined conditionals; they still seemed to make
868
                          trouble in some cases
  2013/08/05 v1.1
                       - added /loads/ of languages, noe the list of babel and
870
                          polyglossia languages hopefully is complete
871
                        - a few languages had falsely been declared as dialect
872
                          instead of an alias
873
                         added weekday names and month names to basic dictionary
874
                       - new command \baselanguage
875
                       - new commands \GetLCTranslation, \GetLCTranslationFor,
                          \GetLCTranslationWarn and \GetLCTranslationForWarn
877
                       - load basic dictionary also for dialects and if it
878
                          doesn't exist load it for the corresponding base
                          language instead
881 2013/09/30 v1.1a
                       - Bug fix in \NewTranslation und \RenewTranslation
```

Bibliography

[Bra13] Johannes Braams, current maintainer: Javier Bezos. babel. version 3.9f, May 16, 2013. URL: http://mirror.ctan.org/macros/latex/required/babel.

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