# translations

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a simple translator

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#### English documentation

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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 beamer¹ bundle). Internationalization is also possible with babel² and it's \addto\captions<\language> mechanism or KOMA-Script's \providecaptionname. However, I believe that TRANSLATIONS is more flexible than all of these. Unlike translator it detects the used (babel or polyglossia³) language itself and provides expandable retrieving of the translated key. TRANSLATIONS also provides support for language dialects which means package authors can for example distinguish between British, Australian, Canadian and US English.

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.

<sup>&</sup>lt;sup>1</sup> on CTAN: beamer <sup>2</sup> on CTAN: babel <sup>3</sup> on CTAN: polyglossia

## 2 License and Requirements

TRANSLATIONS is placed under the terms of the LATEX Project Public License, version 1.3 or later (http://www.latex-project.org/lppl.txt). It has the status "maintained."

TRANSLATIONS requires the packages etoolbox<sup>4</sup> and scrifile (part of the KOMA-Script bundle<sup>5</sup>).

### 3 Usage

## 3.1 Background

The TRANSLATIONS package enables the author of a package or a class (or a document) to declare translations in different languages of key words 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 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 9), language aliases (see table 3 on page 9) and language dialects (see table 4 on page 10). For the commands declaring or fetching a translation base languages and language aliases are equivalent. Dialects are similar to aliases but there are a few important differences.

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

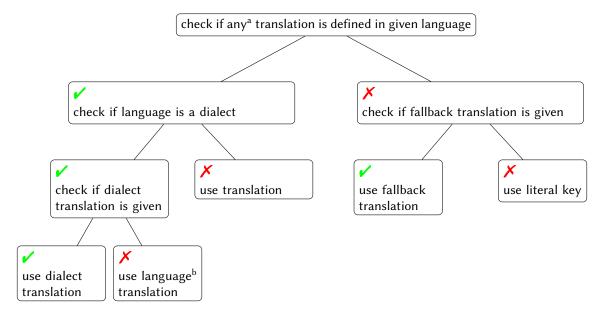


FIGURE 1: Schematic representation of TRANSLATIONS' translating mechansim. Notes: a except for a possible fallback translation. b i.e., the base language of the dialect.

What happens if you declare a translation? There are three 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).

<sup>&</sup>lt;sup>4</sup> on CTAN: etoolbox <sup>5</sup> on CTAN: koma-script

- 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.

#### 3.2 Available Commands

Below the commands provided by **TRANSLATIONS** are explained. The symbol ★ means that the command is expandable, ★ means that it isn't.

#### ★ \DeclareLanguage{<lang>}

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.

#### ★ \DeclareLanguageAlias {<lang2>} {<lang1>}

Declares <lang2> to be an alias of <lang1>. If <lang1> doesn't exist yet a warning will be raised and it will be defined. This command can only be used in the preamble.

## ★ \DeclareLanguageDialect{<dialect>}{<lang>}

Declares <dialect> to be a dialect of language <lang>. If a translation for <dialect> is provided it is used by the translation macros. If there is none the corresponding translation for <lang> is used instead.

#### ★ \NewTranslation{<lang>}{<key>}{<translation>}

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

#### ★ \RenewTranslation{<lang>}{<key>}{<translation>}

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

#### ★ \DeclareTranslation{<lang>}{<key>}{<translation>}

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

#### ★ \DeclareTranslationFallback{<key>}{<fallback>}

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

#### ★ \GetTranslationFor{<lang>}{<key>}

Fetches and prints the translation of <key> for the language <lang>. This command is expandable.

#### ★ \GetTranslation{<key>}

Fetches and prints the translation of <key> for the currently active language (as for example set by babel). This command is expandable.

#### ★ \GetTranslationForWarn{<lang>}{<key>}

Introduced in version 1.0

Fetches and prints the translation of <key> for the language <lang>. Issues a warning if no translation is available.

#### ★ \GetTranslationWarn{<key>}

Introduced in version 1.0

Fetches and prints the translation of <key> for the currently active language (as for example set by babel). Issues a warning if no translation is available.

#### ★ \SaveTranslationFor{<cmd>}{<lang>}{<key>}

Fetches and saves the translation of <key> for the language <lamp> in the macro <cmd>.

#### ★ \SaveTranslation{<cmd>}{<key>}

Fetches and saves the translation of <key> for the currently active language (as for example set by babel) in the macro <cmd>.

#### ★ \LoadDictionary{<name>}

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

#### ★ \LoadDictionaryFor{<lang>}{<name>}

Loads a file named <name>-<lang>.trsl.

#### ★ \DeclareDictTranslation{<key>}{<translation>}

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{<lang>}{<name>}[<date>]

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**.

#### ★ \PrintDictionaryFor{<lang>}{<name>}{}{<mid>}{<post>}

Introduced in version 1.0

Prints all entries of dictionary <name> in language <lang> in the order the entries have been declared. For every entry the code

<key><mid><translation><post>

is printed. The dictionary must have been loaded of course.

#### 3.3 A Small Example

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

```
% in the preamble:
    % \DeclareTranslation{English}{Kueche}{kitchen}
    % \DeclareTranslation{German}{Kueche}{K\"uche}
    % \DeclareTranslation{Spanish}{Kueche}{cocina}
    % \DeclareTranslation{French}{Kueche}{cuisine}

    \GetTranslation{Kueche}
    \SaveTranslation\kitchen{Kueche}
    \SaveTranslation\cuisine{french}{Kueche}

    \SaveTranslationFor\cuisine{french}{Kueche}

    \Selectlanguage{ngerman}
    \GetTranslation{Kueche} \kitchen\ \GetTranslationFor{spanish}{Kueche}

    \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:

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

    \GetTranslationFor{English}{farbe} \\
    \GetTranslationFor{British}{farbe} \\
    \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:

```
\RequirePackage{translations}
\DeclareTranslationFallback{mypackage-title}{Nice Title}
\DeclareTranslation{English}{mypackage-title}{Nice Title}
\DeclareTranslation{French}{mypackage-title}{Beau Titre}
\DeclareTranslation{German}{mypackage-title}{Sch\"{o}ner Titel}
\...
\def\mypackage@title{\GetTranslation{mypackage-title}}
```

That is, a package defines some unique key for an expression and at least defines a fallback translation. Additionally translations for as many languages as the author wants are defined. A user then may add \DeclareTranslation{<language>}{<translation>} 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:

```
| \documentclass{article}
| \DeclareTranslation{German}{foo-literal}{bar}
| \begin{document}
| \GetTranslation{foo-literal} => `foo-literal'
| \end{document}
```

```
\documentclass{article}

\DeclareTranslationFallback{foo-literal}{foo}

\DeclareTranslation{German}{foo-literal}{bar}

\begin{document}

\GetTranslation{foo-literal} => `foo'

\end{document}

\end{document}
```

```
\documentclass{article}
\usepackage[ngerman]{babel}
\usepackage[ngerman]{foo-literal}{bar}
\usepackage[ngerman]{foo-literal}{bar}
\usepackage[ngerman]{foo-literal}{bar}
\usepackage[ngerman]{foo-literal}{\usepackage}
\usepackage[ngerman]{\usepackage[ngerman]{\usepackage[ngerman]{\usepackage[ngerman]{\usepackage[ngerman]{\usepackage[ngerman]{\usepackage[ngerman]{\usepackage[ngerman]{\usepackage[ngerman]{\usepackage[ngerman]{\usepackage[ngerman]{\usepackage[ngerman]{\usepackage[ngerman]{\usepackage[ngerman]{\usepackage[ngerman]{\usepackage[ngerman]{\usepackage[ngerman]{\usepackage[ngerman]{\usepackage[ngerman]{\usepackage[ngerman]{\usepackage[ngerman]{\usepackage[ngerman]{\usepackage[ngerman]{\usepackage[ngerman]{\usepackage[ngerman]{\usepackage[ngerman]{\usepackage[ngerman]{\usepackage[ngerman]{\usepackage[ngerman]{\usepackage[ngerman]{\usepackage[ngerman]{\usepackage[ngerman]{\usepackage[ngerman]{\usepackage[ngerman]{\usepackage[ngerman]{\usepackage[ngerman]{\usepackage[ngerman]{\usepackage[ngerman]{\usepackage[ngerman]{\usepackage[ngerman]{\usepackage[ngerman]{\usepackage[ngerman]{\usepackage[ngerman]{\usepackage[ngerman]{\usepackage[ngerman]{\usepackage[ngerman]{\usepackage[ngerman]{\usepackage[ngerman]{\usepackage[ngerman]{\usepackage[ngerman]{\usepackage[ngerman]{\usepackage[ngerman]{\usepackage[ngerman]{\usepackage[ngerman]{\usepackage[ngerman]{\usepackage[ngerman]{\usepackage[ngerman]{\usepackage[ngerman]{\usepackage[ngerman]{\usepackage[ngerman]{\usepackage[ngerman]{\usepackage[ngerman]{\usepackage[ngerman]{\usepackage[ngerman]{\usepackage[ngerman]{\usepackage[ngerman]{\usepackage[ngerman]{\usepackage[ngerman]{\usepackage[ngerman]{\usepackage[ngerman]{\usepackage[ngerman]{\usepackage[ngerman]{\usepackage[ngerman]{\usepackage[ngerman]{\usepackage[ngerman]{\usepackage[ngerman]{\usepackage[ngerman]{\usepackage[ngerman]{\usepackage[ngerman]{\usepackage[ngerman]{\usepackage[ngerman]{\usepackage[ngerman]{\usepackage[ngerman]{\usepackage[ngerman]{\usepackage[ngerman]{\usepackage[ngerman]{\usepackage[ngerman
```

#### 3.5 Dictionaries

#### 3.5.1 Own Dictionaries

A typical dictionary file should look as follows:

```
% this is file housing-german.trsl

/ ProvideDictionaryFor{German}{housing}[<version info>]

/ DeclareDictTranslation{kitchen (housing)}{K\"uche}

/ DeclareDictTranslation{bathroom (housing)}{Bad}

/ DeclareDictTranslation{living room (housing)}{Wohnzimmer}

/ DeclareDictTranslation{bedroom (housing)}{Schlafzimmer}

/ Lendinput
```

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-<lamp>.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 |  |
| CC  | 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               |  |
| encl  | Anlage(n)            |  |
| Figures   | Abbildungen          |  |
| figures   | Abbildungen          |  |
| Figure  | Abbildung            |  |

continues

| key                        | translation                         |
|----------------------------|-------------------------------------|
| 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                          |
| 0verview                   | 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                           |
| See also                   | Siehe auch                          |
| see also                   | siehe auch                          |
| See                        | Siehe                               |
| see                        | siehe                               |
| Sketch of Proofs           | Beweisskizzen                       |
| Sketch of proofs           | Beweisskizzen                       |

continues

| key             | translation     |
|-----------------|-----------------|
| 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              |

## 4 Defined 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.

TABLE 2: Base languages defines by TRANSLATIONS.

| albanian  | bulgarian   | catalan   |
|-----------|---|---|
| czech     | danish  | dutch   |
| finnish   | french  | german  |
| hebrew    | hungarian   | icelandic   |
| norwegian | polish  | portuges  |
| russian   | serbocroatian   | slovak  |
| spanish   | swedish   | turkish   |
| canadien  | american  | australian  |
| canadian  | austrian  | naustrian   |
| brazil    | swissgerman   |   |
|           | czech<br>finnish<br>hebrew<br>norwegian<br>russian<br>spanish<br>canadien<br>canadian | czech danish finnish french hebrew hungarian norwegian polish russian serbocroatian spanish swedish canadien american canadian austrian |

To every one of these languages at least one alias exists, the uppercase variant. This is due to the fact that it is common to write language names uppercased. All defined aliases are listed in table 3.

TABLE 3: All language aliases defined by TRANSLATIONS.

| alias     | language  | alias    | language |
|-----------|-----------|----------|----------|
| Fallback  | fallback  | Albanian | albanian |
| Bulgarian | bulgarian | Catalan  | catalan  |

continues

| alias             | language    | alias           | language      |
|-------------------|-------------|-----------------|---------------|
| Croatian croatian |             | Czech           | czech         |
| Danish            | danish      | Dutch           | dutch         |
| Finnish           | finnish     | français        | french        |
| Francais          | francais    | Canadien        | canadien      |
| French            | french      | American        | american      |
| Australian        | australian  | British         | british       |
| Canadian          | canadian    | English         | english       |
| UKenglish         | british     | USenglish       | american      |
| Austrian          | austrian    | German          | german        |
| germanb           | german      | ngerman         | german        |
| Greek             | greek       | polutonikogreek | greek         |
| Hebrew            | hebrew      | Hungarian       | hungarian     |
| Magyar            | magyar      | Icelandic       | icelandic     |
| Italian           | italian     | norsk           | norwegian     |
| Norsk             | norsk       | Norwegian       | norwegian     |
| nynorsk           | norwegian   | Nynorsk         | nynorsk       |
| Polish            | polish      | Brazil          | brazil        |
| brazilian         | brazil      | Brazilian       | brazilian     |
| Portuges          | portuges    | portuguese      | portuges      |
| Portuguese        | portuguese  | Romanian        | romanian      |
| Russian           | russian     | Serbocroatian   | serbocroatian |
| Slovak            | slovak      | Slovenian       | slovenian     |
| Spanish           | spanish     | Swedish         | swedish       |
| Swiss             | swissgerman | Swissgerman     | swissgerman   |
| Turkish           | turkish     | Ukrainian       | ukrainian     |

TRANSLATIONS also defines a few dialects. They are listed in table 4.

TABLE 4: All dialects defined by TRANSLATIONS.

| dialect    | language | dialect     | language  |
|------------|----------|-------------|-----------|
| canadien   | french   | american    | english   |
| australian | english  | british     | english   |
| canadian   | english  | austrian    | german    |
| naustrian  | austrian | magyar      | hungarian |
| brazil     | portuges | swissgerman | german    |

These languages should cover all languages which are currently covered by babel and polyglossia.

## 5 Implementation

In the following code the lines 1–30 have been omitted. They only repeat the license statement which has already been mentioned in section 2.

```
\def\@trnslt@date{2013/07/16}
   \def\@trnslt@version{v1.0}
   \ProvidesPackage{translations}[\@trnslt@date\space \@trnslt@version\space a simple
34
   \RequirePackage{etoolbox,scrlfile}
36
37
   % message handling
38
   \def\@trnslt@error@message{%
    For details have a look at the `translations' manual.}
   \def\@trnslt@create@message#1{%
     \ifstrequal{#1}{Error}
43
44
        \lowercase{\csdef{@trnslt@#1}}##1{%
45
          \verb|\csuse{Package#1}{translations}{\##1}{\csuse{Package#1}{translations}}|
47
        \lowercase{\csdef{@trnslt@#1}}##1{%
48
          \csuse{Package#1}{translations}{##1}}%
      }}
   \@trnslt@create@message{Error}
   \@trnslt@create@message{Warning}
   \@trnslt@create@message{WarningNoLine}
53
   \@trnslt@create@message{Info}
55
   \def\@trnslt@err@unknown@lang#1{%
56
     \@trnslt@error{Unknown language `#1'}}
   \def\@trnslt@warn@unknown@lang#1{%
59
    \@trnslt@warning{Unknown language `#1'}}
60
61
   \@trnslt@error{The #2 translation for `#1' is already defined.}}
63
   \def\@trnslt@err@not@defined#1#2{%
    \@trnslt@error{The \@trnslt@language{#2} translation for `#1' is not defined yet.}}
67
68
   % check if babel or polyglossia is used
69
   \AtEndPreamble{
     \@ifpackageloaded{babel}{}{
71
      \@ifpackageloaded{polyglossia}{}
        as default language.}}
74
75
    \ifdef\languagename{}
76
       {\def\languagename{english}}
77
    \def\@trnslt@current@language{\languagename}
    \ifdef\bbl@afterfi{}
79
      80
  }
81
```

```
82
   93
   % book keeping: the following macros will be used as `etoolbox' lists that
   % keep record of defined languages, dialects and aliases
   \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
   % -----
   % define \@trnslt@if@<name> conditionals that don't leave the checked macro as
   % \relax behind and check for \@trnslt@<name>@#1. These conditionals should
   % also be expandable in an \edef-like context:
   \def\@trnslt@newif#1{%
     \csdef{@trnslt@if@#1}##1{%
97
98
       \expandafter\expandafter\expandafter
       \expandafter\expandafter\expandafter
99
       \@firstofone
100
       {\expandafter\expandafter\expandafter}%
101
       \ifcsname @trnslt@#1@##1\endcsname
        \expandafter\@firstoftwo
103
       \else
104
        \expandafter\@secondoftwo
105
       \fi
106
     }%
107
   }
108
109
                     _____
   % \DeclareLanguage
   % #1: language
112
   \newrobustcmd*\DeclareLanguage[1]{%
113
     \@trnslt@declare@language{#1}}
   \@onlypreamble\DeclareLanguage
116
   \def\@trnslt@declare@language#1{%
     \@trnslt@if@language{#1}
119
        \csdef{@trnslt@language@#1}{#1}%
120
        \listeadd\@trnslt@languages{#1}%
      }%
123
124
   \def\@trnslt@language#1{%
     \csuse{@trnslt@language@#1}}
126
127
   \@trnslt@newif{language}
128
129
   % \DeclareLanguageDialect
131
   % #1: dialect
   % #2: language
```

```
\newrobustcmd*\DeclareLanguageDialect[2]{%
13/
      \@trnslt@declare@languagedialect{#1}{#2}}
    \@onlypreamble\DeclareLanguageDialect
    \def\@trnslt@declare@languagedialect#1#2{%
      \@trnslt@if@language{#2}
140
          \@trnslt@warn@unknown@lang{#2}%
141
          \@trnslt@declare@language{#2}%
142
        }%
143
      \@trnslt@if@dialect{#1}
144
        {% => ist schon als dialect definiert => irgendwelche weiteren checks?
145
        }
146
        {%
          \@trnslt@if@alias{#2}
148
            {%
149
               \csedef{@trnslt@dialect@#1}{{\csedef{@trnslt@alias{#2}}{#1}}\%
               \@trnslt@declare@language{#1}%
151
              \listeadd\@trnslt@dialects@single{#1}%
152
               \listeadd\@trnslt@dialects@pair{{#1}{\@trnslt@alias{#2}}}%
153
            }
            {%
155
               \csdef{@trnslt@dialect@#1}{{#2}{#1}}%
156
               \@trnslt@declare@language{#1}%
157
              \listeadd\@trnslt@dialects@single{#1}%
               \listeadd\@trnslt@dialects@pair{{#1}{#2}}%
159
            }%
160
        }%
161
    }
162
163
    \def\@trnslt@dialect#1{%
164
      \csuse{@trnslt@dialect@#1}}
165
    % this macros fetches the base language for a given dialect, expandably:
167
    \def\@trnslt@dialect@of#1{%
168
      \@trnslt@if@dialect{#1}
        {%
          \expandafter\expandafter\expandafter
          \@firstoftwo
          \csname @trnslt@dialect@#1\endcsname
173
        }{}%
174
    }
175
    \@trnslt@newif{dialect}
179
    % \DeclareLanguageAlias
180
   % #1: alias
181
   % #2: language
   \newrobustcmd*\DeclareLanguageAlias[2]{%
183
      \@trnslt@declare@languagealias{#1}{#2}}
    \@onlypreamble\DeclareLanguageAlias
```

```
186
    \def\@trnslt@declare@languagealias#1#2{%
187
      \@trnslt@if@language{#2}
        {}{%
189
          \@trnslt@warn@unknown@lang{#2}%
          \@trnslt@declare@language{#2}%
        }%
192
      \csletcs{@trnslt@language@#1}{@trnslt@language@#2}%
193
      \@trnslt@if@dialect{#2}
        {\csletcs{@trnslt@dialect@#1}{@trnslt@dialect@#2}}
      \ifinlist{#1}\@trnslt@aliases@single
197
        {}{%
          \csdef{@trnslt@alias@#1}{#2}%
          \listeadd\@trnslt@aliases@pair{{#1}{#2}}%
          \listeadd\@trnslt@aliases@single{#1}%
201
        }%
202
    }
203
204
    \def\@trnslt@alias#1{%
205
      \csuse{@trnslt@alias@#1}}
    \@trnslt@newif{alias}
208
200
    % dummy language: `fallback':
    \DeclareLanguage{fallback}
212
    \DeclareLanguageAlias{Fallback}{fallback}
215
    % \DeclareTranslation, \NewTranslation and \RenewTranslation
216
    % #1: language
217
   % #2: word
   % #3: replacement
    \newrobustcmd*\DeclareTranslation[3]{%
      \@trnslt@declare@translation{#2}{#1}{#3}}
    \@onlypreamble\DeclareTranslation
223
    \newrobustcmd*\DeclareTranslationFallback[2]{%
224
      \@trnslt@declare@translation{#1}{fallback}{#2}}
    \@onlypreamble\DeclareTranslationFallback
227
    \newrobustcmd*\NewTranslation[3]{%
228
      \@trnslt@new@translation{#2}{#1}{#3}}
    \@onlypreamble\NewTranslation
231
    \newrobustcmd*\RenewTranslation[3]{%
      \@trnslt@renew@translation{#2}{#1}{#3}}
233
    \@onlypreamble\RenewTranslation
234
235
   % #1: word
236
    % #2: language
```

```
% #3: replacement
    \def\@trnslt@declare@translation#1#2#3{%
     \@trnslt@if@language{#2}
241
          \@trnslt@if@dialect{#2}
           {%
243
              \csdef{@trnslt@word@#1@\@trnslt@dialect{#2}}{#3}%
244
              \@trnslt@if@word\@trnslt@dialect@of{#1}{#2}
245
246
                }
248
            {\csdef{atrnslt@word@#1@@trnslt@language{#2}}{#3}}
249
          % save the <word> as <word>:
          \csdef{@trnslt@word@#1@literal}{#1}%
        {\@trnslt@err@unknown@lang{#2}}%
   }
254
255
    \def\@trnslt@new@translation#1#2#3{%
256
     \@trnslt@if@translation{#1}{#2}
257
        {\@trnslt@err@already@defined{#1}{#2}}
        {\@trnslt@declare@translation{#1}{#2}{#3}}}
259
260
    \def\@trnslt@renew@translation#1#2#3{%
261
     \@trnslt@if@translation{#1}{#2}
        {\@trnslt@declare@translation{#1}{#2}{#3}}
263
        {\@trnslt@err@not@defined{#1}{#2}}}
264
    % now let's go through some trouble to check if a translation exists:
    \def\@trnslt@if@word#1#2#3{%
268
     \expandafter\expandafter\expandafter
269
     \expandafter\expandafter\expandafter
     \@firstofone
271
     {\expandafter\expandafter\expandafter}%
     \ifcsname @trnslt@word@#2@#1{#3}\endcsname
       \expandafter\@firstoftwo
     \else
       \expandafter\@secondoftwo
276
     \fi
   }%
279
    \def\@trnslt@if@translation#1#2{%
280
     \@trnslt@if@word\@trnslt@language{#1}{#2}
        {\expandafter\@firstoftwo}
       {%
283
          \@trnslt@if@dialect{#2}
284
285
           {%
              \@trnslt@if@word\@trnslt@dialect{#1}{#2}
                {\expandafter\@firstoftwo}
287
                {%
288
                  \@trnslt@if@word\@trnslt@dialect@of{#1}{#2}
```

```
{\expandafter\@firstoftwo}
200
                     {\expandafter\@secondoftwo}%
                }
            }
            {\expandafter\@secondoftwo}%
        }%
295
296
297
298
    % \GetTranslationFor and \GetTranslation
    % these need to be expandable!
    % #1: language
    % #2: word
    \newcommand*\GetTranslationFor[2]{%
      \@trnslt@checkandget@translation@for{#2}{#1}}
304
305
    \newcommand*\GetTranslation[1]{%
      \@trnslt@checkandget@translation@for{#1}{\@trnslt@current@language}}
307
308
    % unexpandable version of the commands that raise a warning if no translation
    % is available:
    \newcommand*\GetTranslationForWarn[2]{%
      \@trnslt@getandwarn@translation@for{#2}{#1}}
312
313
    \newcommand*\GetTranslationWarn[1]{%
      \@trnslt@getandwarn@translation@for{#1}{\@trnslt@current@language}}
315
316
    % #1: word #2: language
    \def\@trnslt@get@translation@for#1#2{%
      \@trnslt@if@dialect{#2}
319
        {%
320
          \ifcsdef{@trnslt@word@#1@\@trnslt@dialect{#2}}
321
            {\csuse{@trnslt@word@#1@\@trnslt@dialect{#2}}}
            \c {\c suse {\c gtrnslt@word@#1@\c gtrnslt@dialect@of{#2}}}
323
324
        {\csuse{@trnslt@word@#1@\@trnslt@language{#2}}}
326
327
    \def\@trnslt@checkandget@translation@for#1#2{%
328
      \@trnslt@if@translation{#1}{#2}
329
        {\@trnslt@get@translation@for{#1}{#2}}
330
331
          \@trnslt@if@translation{#1}{fallback}
            {\csuse{@trnslt@word@#1@fallback}}
            {\csuse{@trnslt@word@#1@literal}}%
        }%
335
336
    }
    % this is not expandable!
338
    \protected\def\@trnslt@getandwarn@translation@for#1#2{%
      \@trnslt@if@translation{#1}{#2}
        {\@trnslt@get@translation@for{#1}{#2}}
```

```
{%
342
          \@trnslt@warning{Translation for `#1' in #2 unknown. You may try to use
            \string\DeclareTranslation{#2}{#1}{ ... } in your preamble.}%
344
          \@trnslt@if@translation{#1}{fallback}
345
               \@trnslt@info{Using fallback translation for `#1'}%
347
               \csuse{@trnslt@word@#1@fallback}
348
349
            {\csuse{@trnslt@word@#1@literal}}%
        }%
351
352
353
    % \SaveTranslationFor and \SaveTranslation
355
    \newrobustcmd*\SaveTranslationFor[3]{%
356
      \@trnslt@save@translation@for{#1}{#3}{#2}}
357
    \newrobustcmd*\SaveTranslation[2]{%
359
      \@trnslt@save@translation@for{#1}{#2}{\@trnslt@current@language}}
360
    \def\@trnslt@save@translation@for#1#2#3{%
      \edef#1{%
363
        \@trnslt@if@translation{#2}{#3}
364
          {\csuse{@trnslt@word@#2@\@trnslt@language{#3}}}
365
          {}%
      }}
367
368
    % \LoadDictionary and \LoadDictionaryFor
    \newrobustcmd*\LoadDictionary[1]{%
371
      \@trnslt@load@dictionary@for{#1}{\@trnslt@current@language}}
372
    \@onlypreamble\LoadDictionary
373
374
    \newrobustcmd*\LoadDictionaryFor[2]{%
375
      \@trnslt@load@dictionary@for{#2}{#1}}
376
    \@onlypreamble\LoadDictionaryFor
378
    % #1: name
379
    % #2: lang
380
    \def\@trnslt@load@dictionary@for#1#2{%
381
      \AtBeginDocument{%
        \InputIfFileExists{#1-\@trnslt@language{#2}.trsl}
383
          {\@trnslt@check@dictionary{#1}{#2}}
          {\@trnslt@warning{dictionary file `#1-\@trnslt@language{#2}.trsl' not
              found.}}%
      }}
387
388
    \def\@trnslt@check@dictionary#1#2{%
389
      \AfterFile{#1-\@trnslt@language{#2}.trsl}
390
        {%
391
          \ifcsdef{@trnslt@dictionary@#1@\@trnslt@language{#2}}
392
            {\@trnslt@info{loading dictionary `#1' for `#2'.}}
```

```
{%
394
                                        \@trnslt@warning{file `#1-\@trnslt@language{#2}.trsl' does not
                                             appear to be a dictionary}%
                                  }%
397
                      }%
           }
399
400
           \def\@trnslt@load@dictionary@silent@for#1#2{%
401
                 \AtBeginDocument{\InputIfFileExists{#1-\@trnslt@language{#2}.trsl}{}}}
402
           \newrobustcmd*\ProvideDictionaryFor[2]{%
404
                 \@trnslt@provide@dictionary@for{#1}{#2}}
           \@onlypreamble\ProvideDictionaryFor
           \def\@trnslt@provide@dictionary@for#1#2{%
408
                 \def\@trnslt@dictionary@name{#2}%
409
                 \edef\@trnslt@dictionary@lang{\@trnslt@language{#1}}%
                 % this macro can be used to check if we have a dictionary and will also be
                 % used as a list for the dictionary entries:
412
                 \csdef{@trnslt@dictionary@\@trnslt@dictionary@name @\@trnslt@dictionary@lang}{}%
413
                 \@ifnextchar[
                      {\@trnslt@provide@dictionary@version}
415
416
                            \ProvidesFile
417
                                  {#2-\@trnslt@dictionary@lang.trsl}%
418
                                  [(\@trnslt@dictionary@lang\space translation file `#2')]
419
           }
421
           \def\@trnslt@provide@dictionary@version[#1]{%
423
                 \ProvidesFile
424
                       {\@trnslt@dictionary@name-\@trnslt@dictionary@lang.trsl}%
425
                       [(\ensuremath{\mbox{$\backslash$}}\ensuremath{\mbox{$\backslash$}}\ensuremath{\mbox{$\backslash$}}\ensuremath{\mbox{$\backslash$}}\ensuremath{\mbox{$\backslash$}}\ensuremath{\mbox{$\backslash$}}\ensuremath{\mbox{$\backslash$}}\ensuremath{\mbox{$\backslash$}}\ensuremath{\mbox{$\backslash$}}\ensuremath{\mbox{$\backslash$}}\ensuremath{\mbox{$\backslash$}}\ensuremath{\mbox{$\backslash$}}\ensuremath{\mbox{$\backslash$}}\ensuremath{\mbox{$\backslash$}}\ensuremath{\mbox{$\backslash$}}\ensuremath{\mbox{$\backslash$}}\ensuremath{\mbox{$\backslash$}}\ensuremath{\mbox{$\backslash$}}\ensuremath{\mbox{$\backslash$}}\ensuremath{\mbox{$\backslash$}}\ensuremath{\mbox{$\backslash$}}\ensuremath{\mbox{$\backslash$}}\ensuremath{\mbox{$\backslash$}}\ensuremath{\mbox{$\backslash$}}\ensuremath{\mbox{$\backslash$}}\ensuremath{\mbox{$\backslash$}}\ensuremath{\mbox{$\backslash$}}\ensuremath{\mbox{$\backslash$}}\ensuremath{\mbox{$\backslash$}}\ensuremath{\mbox{$\backslash$}}\ensuremath{\mbox{$\backslash$}}\ensuremath{\mbox{$\backslash$}}\ensuremath{\mbox{$\backslash$}}\ensuremath{\mbox{$\backslash$}}\ensuremath{\mbox{$\backslash$}}\ensuremath{\mbox{$\backslash$}}\ensuremath{\mbox{$\backslash$}}\ensuremath{\mbox{$\backslash$}}\ensuremath{\mbox{$\backslash$}}\ensuremath{\mbox{$\backslash$}}\ensuremath{\mbox{$\backslash$}}\ensuremath{\mbox{$\backslash$}}\ensuremath{\mbox{$\backslash$}}\ensuremath{\mbox{$\backslash$}}\ensuremath{\mbox{$\backslash$}}\ensuremath{\mbox{$\backslash$}}\ensuremath{\mbox{$\backslash$}}\ensuremath{\mbox{$\backslash$}}\ensuremath{\mbox{$\backslash$}}\ensuremath{\mbox{$\backslash$}}\ensuremath{\mbox{$\backslash$}}\ensuremath{\mbox{$\backslash$}}\ensuremath{\mbox{$\backslash$}}\ensuremath{\mbox{$\backslash$}}\ensuremath{\mbox{$\backslash$}}\ensuremath{\mbox{$\backslash$}}\ensuremath{\mbox{$\backslash$}}\ensuremath{\mbox{$\backslash$}}\ensuremath{\mbox{$\backslash$}}\ensuremath{\mbox{$\backslash$}}\ensuremath{\mbox{$\backslash$}}\ensuremath{\mbox{$\backslash$}}\ensuremath{\mbox{$\backslash$}}\ensuremath{\mbox{$\backslash$}}\ensuremath{\mbox{$\backslash$}}\ensuremath{\mbox{$\backslash$}}\ensuremath{\mbox{$\backslash$}}\ensuremath{\mbox{$\backslash$}}\ensuremath{\mbox{$\backslash$}}\ensuremath{\mbox{$\backslash$}}\ensuremath{\mbox{$\backslash$}}\ensuremath{\mbox{$\backslash$}}\ensuremath{\mbox{$\backslash$}}\ensuremath{\mbox{$\backslash$}}\ensuremath{\mbox{$\backslash$}}\ensuremath{\mbox{$\backslash$}}\ensuremath{\mbox{$\backslash$}}\ensuremath{\mbox{$\backslash$}}\ensuremath{\mbox{$\backslash$}}\ensuremath{\mbox{$\backslash$}}\ensuremath{\mbox{$\backslash$}}\ensuremath{\mbox{$\backslash$}}\ensuremath{\mbox{$\backslash$}}\ensuremath{\mbox{$\backslash$}}\ensuremath{\mbox{$\backslash$}}\ensuremath{\mbox{$\backslash$}}\ensuremath{\mbox{$\backslash$}}\ensuremath{\mbox{$\backslash$}}\ensuremath{\mbox{
427
           % \@trnslt@dictionary@language
428
           \newrobustcmd*\DeclareDictTranslation[2]{%
                 \listcsadd
430
                       {@trnslt@dictionary@\@trnslt@dictionary@name @\@trnslt@dictionary@lang}
431
                       {{#1}{#2}}%
432
                 \@trnslt@declare@translation{#1}{\@trnslt@dictionary@lang}{#2}%
433
          }
434
           \@onlypreamble\DeclareDictTranslation
435
436
           % \PrintDictionaryFor
438
           % #1: lang
           % #2: name
439
           % #3: pre
440
          % #4: mid
441
          % #5: post
           \newcommand*\PrintDictionaryFor[5]{%
443
                 \@trnslt@print@dictionary@for{#1}{#2}{#3}{#4}{#5}}
444
```

```
% #1: lang
446
   % #2: name
   % #3: pre
   % #4: mid
449
    % #5: post
    \forlistcsloop
452
        {\@trnslt@print@dictionary@entry{#3}{#4}{#5}}
453
        {@trnslt@dictionary@#2@\@trnslt@language{#1}}%
454
   }
455
456
   % #1: pre
457
   % #2: mid
458
    % #3: post
    % #4: {key}{translation}
460
    \def\@trnslt@print@dictionary@entry#1#2#3#4{%
461
      \@trnslt@print@dictionary@entry@aux{#1}{#2}{#3}#4}
462
463
   % #1: pre
464
   % #2: mid
465
    % #3: post
    % #4: key
    % #5: translation
468
    \def\@trnslt@print@dictionary@entry@aux#1#2#3#4#5{#1#4#2#5#3}
469
471
    % predefined languages
472
    \DeclareLanguage{albanian}
    \DeclareLanguage{bulgarian}
    \DeclareLanguage{catalan}
475
    \DeclareLanguage{croatian}
476
    \DeclareLanguage{czech}
477
   \DeclareLanguage{danish}
   \DeclareLanguage{dutch}
479
   \DeclareLanguage{english}
480
   \DeclareLanguage{finnish}
    \DeclareLanguage{french}
    \DeclareLanguage{german}
483
    \DeclareLanguage{greek}
484
   \DeclareLanguage{hebrew}
485
   \DeclareLanguage{hungarian}
   \DeclareLanguage{icelandic}
487
   \DeclareLanguage{italian}
488
   \DeclareLanguage{norwegian}
    \DeclareLanguage{polish}
490
    \DeclareLanguage{portuges}
    \DeclareLanguage{romanian}
   \DeclareLanguage{russian}
   \DeclareLanguage{serbocroatian}
   \DeclareLanguage{slovak}
495
    \DeclareLanguage{slovenian}
    \DeclareLanguage{spanish}
```

```
\DeclareLanguage{swedish}
    \DeclareLanguage{turkish}
    \DeclareLanguage{ukrainian}
501
    % aliases and dialects:
    \DeclareLanguageAlias {Albanian}{albanian}
504
    \DeclareLanguageAlias
                           {Bulgarian}{bulgarian}
505
    \DeclareLanguageAlias
                           {Catalan}{catalan}
    \DeclareLanguageAlias
                          {Croatian}{croatian}
    \DeclareLanguageAlias {Czech}{czech}
508
    \DeclareLanguageAlias
                           {Danish}{danish}
509
    \DeclareLanguageAlias
                           {Dutch}{dutch}
                           {Finnish}{finnish}
    \DeclareLanguageAlias
    \DeclareLanguageAlias
                           {francais}{french}
    \DeclareLanguageAlias {Francais}{francais}
513
    \DeclareLanguageDialect{canadien}{french}
    \DeclareLanguageAlias {Canadien}{canadien}
    \DeclareLanguageAlias {French}{french}
516
    \DeclareLanguageDialect{american}{english}
517
    \DeclareLanguageAlias {American}{american}
    \DeclareLanguageDialect{australian}{english}
    \DeclareLanguageAlias {Australian}{australian}
    \DeclareLanguageDialect{british}{english}
521
    \DeclareLanguageAlias {British}{british}
    \DeclareLanguageDialect{canadian}{english}
523
    \DeclareLanguageAlias {Canadian}{canadian}
524
    \DeclareLanguageAlias {English}{english}
    \DeclareLanguageAlias {UKenglish}{british}
                           {USenglish}{american}
    \DeclareLanguageAlias
527
    \DeclareLanguageDialect{austrian}{german}
528
                           {Austrian}{austrian}
    \DeclareLanguageAlias
529
    \DeclareLanguageAlias
                           {German}{german}
530
    \DeclareLanguageAlias {germanb}{german}
    \DeclareLanguageDialect{naustrian}{austrian}
532
    \DeclareLanguageAlias
                           {ngerman}{german}
534
    \DeclareLanguageAlias
                           {Greek}{greek}
    \DeclareLanguageAlias
                           {polutonikogreek}{greek}
    \DeclareLanguageAlias
                           {Hebrew} {hebrew}
536
    \DeclareLanguageAlias
                           {Hungarian}{hungarian}
537
    \DeclareLanguageDialect{magyar}{hungarian}
538
    \DeclareLanguageAlias {Magyar}{magyar}
539
    \DeclareLanguageAlias
                           {Icelandic}{icelandic}
    \DeclareLanguageAlias
                           {Italian}{italian}
                           {norsk}{norwegian}
    \DeclareLanguageAlias
542
                           {Norsk}{norsk}
    \DeclareLanguageAlias
543
    \DeclareLanguageAlias
                           {Norwegian}{norwegian}
544
                           {nynorsk}{norwegian}
    \DeclareLanguageAlias
    \DeclareLanguageAlias
                           {Nynorsk}{nynorsk}
    \DeclareLanguageAlias {Polish}{polish}
547
    \DeclareLanguageDialect{brazil}{portuges}
    \DeclareLanguageAlias {Brazil}{brazil}
```

```
\DeclareLanguageAlias {brazilian}{brazil}
    \DeclareLanguageAlias {Brazilian}{brazilian}
    \DeclareLanguageAlias {Portuges}{portuges}
552
   \DeclareLanguageAlias {portuguese}{portuges}
    \DeclareLanguageAlias {Portuguese}{portuguese}
    \DeclareLanguageAlias {Romanian}{romanian}
    \DeclareLanguageAlias {Russian}{russian}
556
    \DeclareLanguageAlias {Serbocroatian}{serbocroatian}
557
   \DeclareLanguageAlias {Slovak}{slovak}
558
   \DeclareLanguageAlias {Slovenian}{slovenian}
   \DeclareLanguageAlias {Spanish}{spanish}
   \DeclareLanguageAlias {Swedish}{swedish}
    \DeclareLanguageDialect{swissgerman}{german}
    % this maybe should be a language of it's own:
    \DeclareLanguageAlias {Swiss}{swissgerman}
    \DeclareLanguageAlias {Swissgerman}{swissgerman}
565
    \DeclareLanguageAlias {Turkish}{turkish}
    \DeclareLanguageAlias {Ukrainian}{ukrainian}
567
568
    % load basic dictionary if available
    \AtBeginDocument{%
      \@trnslt@load@dictionary@silent@for
        {translations-basic-dictionary}
        {\@trnslt@current@language}%
574
    }
575
576
    \endinput
    9
579
580
   2012/09/30 v0.2beta - first version (as part of the `exsheets' bundle)
                       - \LoadDictionary and \LoadDictionaryFor added and loads of
   2012/10/05 v0.2
                          languages defined.
583
    2013/03/10 v0.8
                        - basic dictionaries for English, German, French and Spanish
584

    new command \DeclareDictTranslation

   2013/04/04 v0.8a
                        - bug fix in \DeclareDictTranslation
    2013/04/07 v0.9
                        - slightly improved messages
587
    2013/04/08 v0.9a
                        - changed fallback warning into info
588
                        - synchronized version number with `exsheets' until now but
589
                         won't any more
590
    2013/06/22 v0.9b
                        - added Swiss
591
                        - declaring aliases of dialects now works as expected
    2013/06/28 v0.10
                        - declarings dialects of an alias now correctly declares
                          the dialect to the correct base language
                        - corrected a few erroneous language declarations
595
    2013/07/12 v0.10a
                        - \GetTranslation gets two-folded fallback: use
596
                          fallback-translation if no translation for the current
597
                          language has been defined; use literal string if /no/
598
                          language is used - this should never happen but /will/
599
                          happen if neither `babel' nor `polyglossia' have been
600
                          loaded, i.e., no language has been chosen /and/ the
```

| 602 |                 | package writer did not provide an English translation                        |
|-----|-----------------|--|
| 603 | 2013/07/16 v1.0 | <ul> <li>removed from `exsheets' bundle - `translations' should</li> </ul>   |
| 604 |                 | be a package of it's own   |
| 605 |                 | - load basic dictionary automatically if available                           |
| 606 |                 | <ul> <li>rudimentary check in \LoadDictionary if loaded file is a</li> </ul> |
| 607 |                 | dictionary   |
| 608 |                 | <ul> <li>new command \PrintDictionaryFor</li> </ul>                          |
| 609 |                 | - redefined conditionals; they still seemed to make                          |
| 610 |                 | trouble in some cases  |

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