`smultiling.sty`: Multilinguality Support for STEX

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Abstract

The `smglom` package is part of the STEX collection, a version of TEX/LATEX that allows to markup TEX/LATEX documents semantically without leaving the document format, essentially turning TEX/LATEX into a document format for mathematical knowledge management (MKM).

The `smultiling` package adds multilinguality support for STEX.

Contents

1 Introduction

2 The User Interface

2.1 Package and Class Options

`smultiling.cls` accepts all options of the `babel.sty` and just passes them on to it.

3 Implementation: The Smultiling Class

3.1 Class Options

To initialize the `smultiling` class, we pass on all options to `omdoc.cls`

```
 1 ⟨∗sty⟩
 2 \DeclareOption*{\PassOptionsToClass{\CurrentOption}{babel}}
 3 \ProcessOptions
 4 ⟨/sty⟩
 5 ⟨∗ltxml⟩
 6 # -*- CPERL -*-
 7 package LaTeXML::Package::Pool;
 8 use strict;
 9 use LaTeXML::Package;
10 DeclareOption(undef,sub {PassOptions('babel','sty',ToString(Digest(T_CS('\CurrentOption')))); }
11 ProcessOptions();
12 ⟨/ltxml⟩
```

We load `babel.sty`

```
13 ⟨∗sty⟩
14 \RequirePackage{babel}
15 ⟨/sty⟩
16 ⟨∗ltxml⟩
17 RequirePackage('babel');
18 ⟨/ltxml⟩
```

3.2 For Language Bindings

`\smg@select@language` this internal macro selects one of the registered languages by its langauage code. Here we only initialize it, the actual selection code is generated by the `\registerlanguage` macro.

```
19 ⟨ltxml⟩RawTeX('
20 ⟨∗sty | ltxml⟩
21 \newcommand\smg@select@lang{}
```

`\registerlanguage` `\registerlanguage{⟨lang⟩}{⟨babel⟩}` registers the `babel` language name ⟨babel⟩ with its ISO 639 languge code ⟨lang⟩ by extending the `\smg@select@language` macro.

```
22 \newcommand\registerlanguage[2]%
23 {\appto\smg@select@lang%
24 {\expandafter\ifstrequal\expandafter\thelang{#1}{\selectlanguage{#2}}{}}}
25 ⟨/sty | ltxml⟩

26 \registerlanguage{af}{afrikaans}
27 \registerlanguage{fr}{french}%
28 \registerlanguage{he}{hebrew}
29 \registerlanguage{hu}{hungarian}
30 \registerlanguage{id}{indonesian}
```

```
31 \registerlanguage{ms}{malay}
32 \registerlanguage{nn}{nynorsk}
33 \registerlanguage{pt}{portuguese}
34 \registerlanguage{ru}{russian}
35 \registerlanguage{uk}{ukrainian}
36 \registerlanguage{en}{USenglish}
37 \registerlanguage{es}{spanish}
```