



Kemet Project

Developer Guide for Kemet API (0.2)

v0.2.3d

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History of the editions

Edition	Author	Comment
1.0	Fabrice MAUPIN	Creation
1.1	Fabrice MAUPIN	Remove "The sequence manager" section, revision of the "The integration step", add new section "The limits of KEMET_API"
1.2	Fabrice MAUPIN	Update "approach by component" illustration, revision of "KEMET_DATA" section



Kemet Project

Developer Guide for Kemet API (0.2)

v0.2.3d

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Table of Contents

About this guide.....	5
The limits of KEMET API.....	5
System, technical & fonctionnal requirements.....	5
Composition of ZIP file.....	6
The “Tests” directory.....	6
The “integration” directory.....	7
The “xml” directory.....	7
Technical Architecture.....	7
Functional notions.....	10
Transliteration to Hieroglyphs.....	10
Hieroglyphs to Transliteration.....	10
Manual for the encoding of Hieroglyph texts for Computer-Input.....	10
The KEMET_DATA directory.....	11
“phonograms.xml” file.....	11
“hiero.xml” file.....	11
“SupportedSequenceFormats.xml” file.....	12
“AssociatedProcToSFItems.xml” file.....	13
“lexicographical_list.xml” file.....	13
The “hieroglyphs” directory.....	13
The KEMET_LIB directory.....	13
Javadoc.....	14
Overview of Information System.....	14
The Localization of messages.....	15
How to configure KEMET API ?.....	16
How to use basic operations ?.....	18
How to extract particular phonograms ?.....	18
How to transliterate hieroglyph text from Gardiner's sign list ?.....	19
How to verify if the format of transliterated sequence is correct ?.....	20
How to get Gardiner's sign list from transliterated text ?.....	21
How to get phonetic read from transliterated text ?.....	22
Without global approach.....	22
With global approach.....	23



Kemet Project

Developer Guide for Kemet API (0.2)

v0.2.3d

KEMET API © 2008 - Fabrice MAUPIN

How to epurate the phonetic complements (for biliteral and trilateral only) ?	23
The “integration” step	24
The “Manual for the encoding of Hieroglyph texts for Computer-Input”	25
The supported codes	25
How to initialize the location manager ?	25
Special caracters are they correct ?	26
how to use “ - ” and “ * ” codes ?	26
How to use “.” code ?	28
How to use the end of line ?	28
How to use the “ (“ and “) ” codes ?	30
Some examples	32
Glossary	32
GNU Free Documentation License	33



Kemet Project

Developer Guide for Kemet API (0.2)

v0.2.3d

KEMET API © 2008 - Fabrice MAUPIN

Index of illustrations

Illustration 1: example of ZIP files.....	6
Illustration 2: approach by component.....	8
Illustration 3: Overview Information System of KEMET API.....	15



Kemet Project

Developer Guide for Kemet API (0.2)

v0.2.3d

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About this guide

This guide has not for vocation to be a hieroglyphic grammatical reference.

It contents with explaining how to use the features offered by the KEMET API.

You will thus find piece of sources and explanations for every described feature.

You can modify this document if you consider it useful (under the terms of the GNU Free Documentation License).

In that case, please send your modifications at this electronic address: [**adm.projetkemet@gmail.com**](mailto:adm.projetkemet@gmail.com).

The limits of KEMET API

For the moment, it's not possible to transcribe the hieroglyphs, only to transliterate them. It's necessary to implement lexicographical lists for this feature.

It will be the object of future versions of KEMET API.

System, technical & fonctionnal requirements

At the system level, you have to install at least [Java 6](#).

At the technical level, the good practice of the language JAVA is [compulsory](#).

We advise you to read attentively the "READ_ME.txt" file delivered with this ZIP archive for KEMET API installation and use.

As regards the notions associated with the transliteration and the transcription of hieroglyphs, we advise you to consult the specialized books.

This document supplies only some hieroglyphic pristines used by the library and a glossary to explain the main terms.



Kemet Project

Developer Guide for Kemet API (0.2)

v0.2.3d

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Composition of ZIP file

You have to have this list of files in your ZIP file.

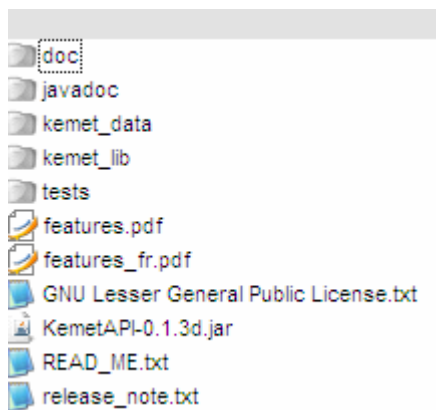


Illustration 1: example of ZIP files

We advise you to consult the "release_note.txt" file for more informations about news.

Important : the "features_x.pdf" files describes the hieroglyphic features which are implemented in this package.

If you downloaded the sources of this package, we will find all informations about (re)build this package. (please consult the "read_me.txt" file).

The "Tests" directory

Several tests are supply in the package. They are distributed in differents directories.

To run all the tests execute the "**AllTests.java**" test suite.



Kemet Project

Developer Guide for Kemet API (0.2)

v0.2.3d

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They are the guarantee of the robustness of the library.

The “integration” directory

It contains all tests about integration of hieroglyphics features.

We advise you to consult the list of supported features (PDF files supply with this package - “features.pdf” or “features_fr.pdf”).

The “xml” directory

It contains all tests about integrity of data (hieroglyphs and phonograms).

Technical Architecture

Please find attached a synthesis of fonctionnal components of the KEMET API.



Kemet Project

Developer Guide for Kemet API (0.2)

v0.2.3d

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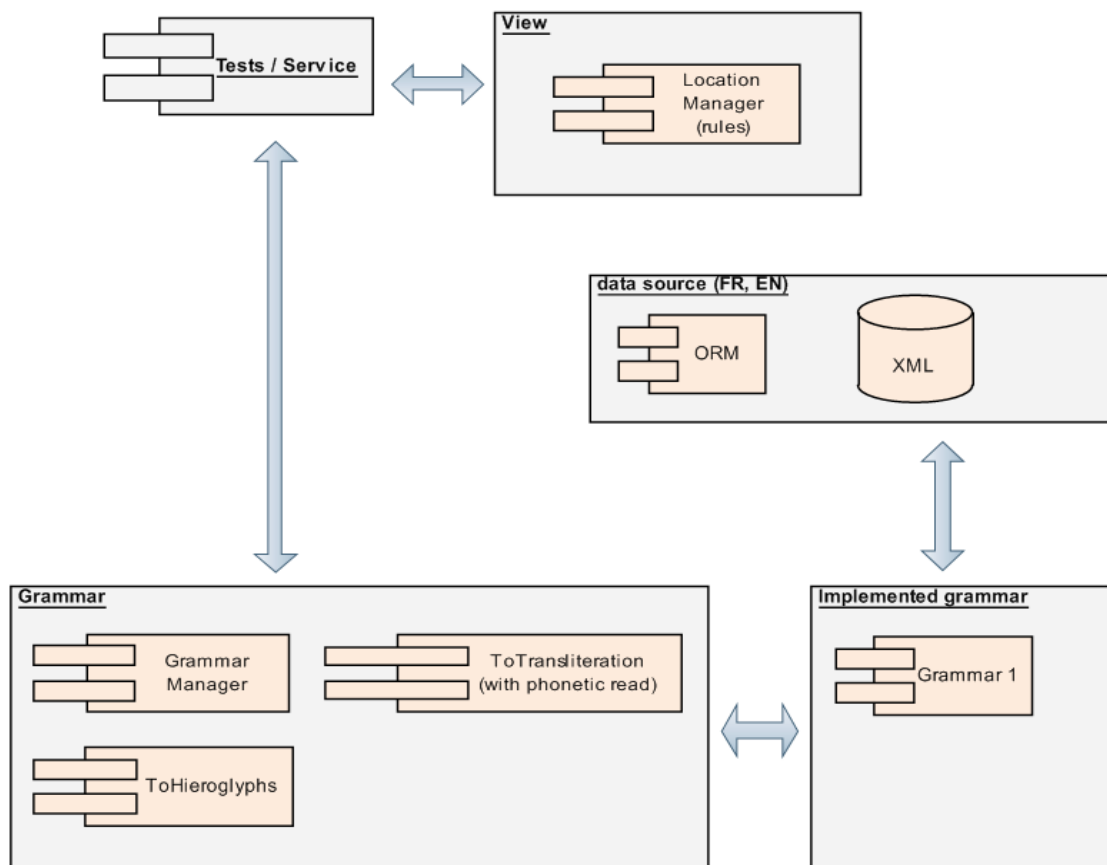


Illustration 2: approach by component

It's a approach by functionnal components.

Tests / Service : This layer allows to use the KEMET API (and these components). It can implement in the form of tests (JUnit) or of sources traditional.

View : This layer doesn't yet implement a complete GUI layer. It supplies at first the means to position hieroglyphs in a "railing" consisted of lines and cadrats (Location manager).



Kemet Project

Developer Guide for Kemet API (0.2)

v0.2.3d

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Data source : This layer allows the access to the data contained in XML files.

It uses two approaches:

- 1) the use of the XPath technology
- 2) the use of an API (Castor XML) which allows to associate the data with objects in memory (mapping).

According to the speed with which we wish to reach the data, we shall choose the one or the other method.

Why to have chosen XML files ?

It is simple:

- 1) the volume of the data is not sufficient for the implementation of a database
- 2) to simplify the installation and the starting of the Library.

Grammar : This layer implements the grammar manager.

It plays the role of a "controler" between mainly the tests / service layer and the implemented grammar.

The name of the class as well as name of the package of the implemented grammar must be specified during the configuration of the KEMET API.

See "Step 1 : How to configure KEMET API ?" section.

These parameters are used by the grammar manager to execute methods of implemented grammar.

It crosses the demands of the tests / service layer for the implemented grammar which execute them.

It leans on generic features which are defined and executed in the implemented grammar ("ToHieroglyphs", "ToTransliteration (with phonetic read)").

This approach is going to allow terms to envisage the implementation of several grammars (At present a single grammar is implemented).



Kemet Project

Developer Guide for Kemet API (0.2)

v0.2.3d

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Implemented grammar : This layer implements all grammatical features which are defined.

Functional notions

Transliteration to Hieroglyphs

This functional notion has for objective the conversion of a sequence transliterated in hieroglyphic signs (Gardiner's codification and not the visual pictogram).

It can be used in a autonomous way.

Hieroglyphs to Transliteration

This functional notion has for objective the word for word reading of a hieroglyphic sequence and the conversion of this one in symbols appropriate for the transliteration.

It can be used in a autonomous way.

Manual for the encoding of Hieroglyph texts for Computer-Input

This manual has for objective the management of the graphic arrangement(measure,disposal) of hieroglyphs.

It leans on a normalized codification to reach this objective.

KEMET API implements some normalized codification of this manual.

It makes no control over the lexical validity of hieroglyphs (signs or transliterations) which must be diagrammatically arranged.

It can be used in a autonomous way.

See the javadoc to know what codifications are used.



Kemet Project

Developer Guide for Kemet API (0.2)

v0.2.3d

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The KEMET_DATA directory

See the javadoc for more information on the methods for how to use the different files.

“phonograms.xml” file

This file contains some type of phonogram (unilateral, bilateral, trilateral).

The “phonograms.xsd” file describes associated schema to “phonograms.xml” file.

Main attribute	Explanation
PhonogramType	Type of phonogram : 1->unilateral, 2->bilateral, 3->trilateral
id	Id of sign (hieroglyph) if you have for example : "<id>M17-M17</id>" the "-" character means that this phonogram consists of the same sign repeated several times

Cf. “Overview of Information system” section.

“hieroglyphs.xml” file

This file contains some hieroglyphs based of Gardiner's List. It's available in French and in English.

The “hieroglyphs.xsd” file describes associated schema to “hieroglyphs.xml” file.

IMPORTANT : a special convention was adopted for coding some “hieroglyphic” characters.

We didn't use “hieroglyph” font so it was necessary to use an other system to represent these characters. For example we find in the file : “h.”, “h)”, “s^”, “h_”.

Our objective is to be independent for the moment from one font.



Kemet Project

Developer Guide for Kemet API (0.2)

v0.2.3d

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Main attribute	Explanation
id	Gardiner's codification
hieroglyph	Bitmap file path (in KEMET_DATA directory)
identification [optional]	Description of the hieroglyph
value	Transliterated value
type [optional]	1-> consonant, 2->semi - consonant
conventionnal_designation [optional]	Conventional designation
conventionnal_value [optional]	Pronunciation value
phonetic_value [optional]	Pronunciation value - phonetic side

For others attributes, please consult the "hieroxsd" shema.

Cf. "Overview of Information system" section.

"SupportedSequenceFormats.xml" file

This file contains all supported formats of sequence.

Attribut	Explanation
format	Contains "uniliteral" or "biliteral" or "triliteral" keyword

The "+" separator allows to begin to group 2 keywords and to consider them as one all. The ";" separator allows to separate 2 keywords. A sequence can contain several keywords.

This file is used in purely directed purposes "test". If a format does not exist, the sequence manager indicates it (in log file). In that case it is necessary to add it in the file.

We thus have a useful list of formats to estimate what was already tested. It's very important to coverage tests.

This file is "connected" in the sequence manager.

The "SupportedSequenceFormats.xsd" file describes associated schema to "SupportedSequenceFormats.xml" file.



Kemet Project

Developer Guide for Kemet API (0.2)

v0.2.3d

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“AssociatedProcToSFItems.xml” file

This file describes all treatments for a particular notion to execute one after the other.

Attribut	Explanation
name	Name of the notion to treat
package	Name of the package who are implemented the treatments
className	Name of the class which contains all associated treatments
Method / name	Name of the method to treat

For example, it's necessary to “purify” phonetic complement for “biliteral” in a sequence.

For “purify” these phonetic complements, it requires certain number of treatments which are described in this file with “biliteral” as “name” attribute value.

See the javadoc for more information on the methods which uses it.

The “AssociatedProcToSFItems.xsd” file describes associated schema to “AssociatedProcToSFItems.xml” file.

“lexicographical_list.xml” file

This file contains currently a list of nouns. It is available in French and English.

The “lexicographical_list.xsd” file describes associated schema to “lexicographical_list .xml” file.

The “hieroglyphs” directory

This directory contains painted bitmap files (free of right) about hieroglyphs which are used in KEMET project.

The KEMET_LIB directory

This directory contains all librairies which are useful to use KEMET API.



Kemet Project

Developer Guide for Kemet API (0.2)

v0.2.3d

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Library	Explanation
castor	Useful to map relational database or file to objects in memory
commons-logging	Used by castor
Log4j (*)	Useful for KEMET API to log trace

See "READ_ME.txt" file to know how to install these librairies.

(*) In "src" directory, there is a "log4j.properties" file which can be modified according to your needs.

Javadoc

It supplies only the public part of the Library. Only some methods are described in this document. We advise you to consult in details these methods.

Overview of Information System

Please find attached a synthesis of the information system of the KEMET API.



Kemet Project

Developer Guide for Kemet API (0.2)

v0.2.3d

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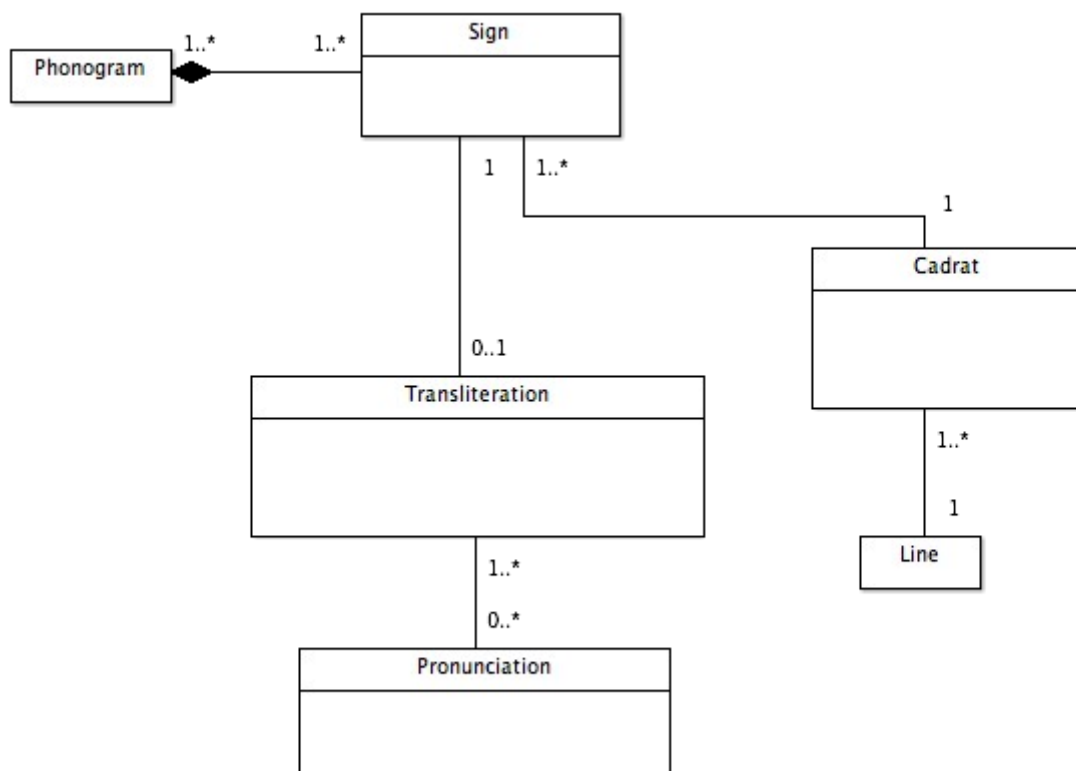


Illustration 3: Overview Information System of KEMET API

For more information, please consult the XSD files which are in the KEMET_DATA directory.

The Localization of messages

The localization for messages is automatically managed .

The list of supported localizations :

- "fr, "FR"



Kemet Project

Developer Guide for Kemet API (0.2)

v0.2.3d

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- “en”, “US”.

We take into account by default the localization local file.

If the localization local file doesn't exist, the “US” localization is used.

See the javadoc for more informations about the use of [Messages](#) class.

How to configure KEMET API ?

It is necessary to initialize the grammar manager.

To do that, this initialization is exclusively made in the source. You have to initialize at first certain attributes.

Complete list of attributes

Attribute	explanation
grammarMainClassName	This attribute always has to have this value : “GrammarBusiness” (Cf. “Technical Architecture” section)
selectedGrammar	This attribute always has to have this value : “org.kemet.impl.grammar1” (Cf. “Technical Architecture” section)
XMLPath	KEMET_DATA directory path (local path where KEMET_DATA is installed) which contains all required data for KEMET API pay attention to unix or windows system for path (*)
file1	This attribute always has to have this value : Phonogram.xml (Cf. “The KEMET_DATA directory” section)
file2	This attribute always has to have this value : hiero.xml (Cf. “The KEMET_DATA directory” section)
encoding	This attribute always has to have this value : “UTF-8” ; All sources and files are encoded “UTF-8” there.
SupportedSequenceFormats [optional]	This attribute always has to have this value : SupportedSequenceFormats.xml (Cf. “The KEMET_DATA directory” section)
SequenceFormatManager [optional]	This attribute always has to have this value : AssociatedProcToSFItems.xml (Cf. “The KEMET_DATA directory” section)
methodNameToManageTransliteration	Method name (without signature) to process hieroglyphs to transliteration (Cf. “Technical Architecture” section)



Kemet Project

Developer Guide for Kemet API (0.2)

v0.2.3d

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Attribute	explanation
methodNameToManageHieroglyphs	Method name (without signature) to process transliteration to hieroglyphs (Cf. "Technical Architecture" section)
methodNameToPhoneticRead	Method name (without signature) to process phonetic read (Cf. "Technical Architecture" section)

(*) for unix system : \\Volumes\\... | for windows system : C..Z:\\...

Certain attributes are optional. Please consult the javadoc to know if a feature needs an attribute in particular.

In the example which follows all attributes are initialized.

Source example (on Windows system) :

```
private GrammarManager gm;
public static final String grammarMainClassName = "GrammarBusiness";

public static final String selectedGrammar = "org.kemet.impl.grammar1";

private HashMap args;

public static String XMLPath = "D:\\DEV\\Kemet\\workspace\\kemet_data\\";

public static String file1 = XMLPath + "phonogram.xml";
public static String file2 = XMLPath + "hieroglyph.xml";

public static String SupportedSequenceFormats =
"D:\\DEV\\Kemet\\workspace\\kemet_data\\SupportedSequenceFormats.xml";

public static String SequenceFormatManager =
"D:\\DEV\\Kemet\\workspace\\kemet_data\\AssociatedProcToSFIItems.xml";

// init the param...
args = new HashMap();

args.put("XMLPath", XMLPath);
args.put("file1", file1);
args.put("file2", file2);
args.put("encoding", "UTF-8");
```



Kemet Project

Developer Guide for Kemet API (0.2)

v0.2.3d

KEMET API © 2008 - Fabrice MAUPIN

```
args.put("SupportedSequenceFormats", SupportedSequenceFormats);
args.put("SequenceFormatManager", SequenceFormatManager);

args.put("methodNameToManageTransliteration",
        "toTransliteration");
args.put("methodNameToManageHieroglyphs", "toHieroglyphs");
args.put("methodNameToPhoneticRead", "toPhoneticRead");

// init the grammar manager...
gm = new GrammarManager(selectedGrammar + "." + grammarMainClassName,
                        args);
```

How to use basic operations ?

How to extract particular phonograms ?

You have to initialize the grammar manager (see "First Step : How to configure KEMET API ?" section).

Source example :

```
private Hashtable<String, String> phInfo;

// get all phonograms with some informations (sign, type)
phInfo = org.kemet.impl.grammar.model.Phonogram.getAllPhonograms();
```

See the javadoc for more information.

The grammar manager loads all phonograms by default.

You can choose to work with a type of phonogram in particular.

Source example :

```
// list of available values
public static final int uniliteral = 1;

public static final int biliteral = 2;

public static final int triliteral = 3;
```



Kemet Project

Developer Guide for Kemet API (0.2)

v0.2.3d

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```
public static final int ALL = 4; // all type of phonograms

// get the uniliterals phonograms
org.kemet.impl.grammar.model.Phonogram.getPhonogramsByType(uniliteral);

// or
// Phonogram[] ph =
// org.kemet.impl.grammar.model.Phonogram.getPhonogramsByType(uniliteral);
```

You can set the return value but it's not compulsory.

By default, KEMET API stored in private static attribut named "extractedPhonograms" the return value.

This value is used by others treatments for more ease.

See the javadoc for more information.

How to transliterate hieroglyph text from Gardiner's sign list ?

You have to initialize the grammar manager (see "First Step : How to configure KEMET API ?" section).

You have to use Gardiner's codification.

You pass a array of "id" (with "_" between 2 "id") and the method returns a string which contains transliterated "id" list.

There is no separator in the returned string.

Source example :

```
// init the data tests...
signList = new String[] { "G1_N29_G370", "G43_D58_N35_N80" };
results = "3q?jwbn";

// test if we have "???" expression
try {
    assertEquals(gm.toTransliteration(new String[] { "???" }, 0), "");
} catch (Exception e) {
    assertTrue(false);
}
```



Kemet Project

Developer Guide for Kemet API (0.2)

v0.2.3d

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```
// test if we have a right transliteration
try {
    assertEquals(gm.toTransliteration(signList, 0), results);
} catch (Exception e) {
    assertTrue(false);
}
```

The "?" expression means that the sign can't be transliterate.

See the javadoc for more information.

How to verify if the format of transliterated sequence is correct ?

You have to initialize the grammar manager (see "First Step : How to configure KEMET API ?" section).

You have to use Gardiner's codification and pass a array of "id" (with "_" between 2 "id").

Source example :

```
// init the data tests...
signList = new String[] { "G1_N29_G370", "G43_D58_N35_N80" };

/*
 * (exclude (y/n) "?" character)
 */
try {
    assertEquals(gm.isTCorrectFormat(gm.toTransliteration(signList, 0),
                                     true), true);
} catch (Exception e) {
    assertTrue(false);
}

try {
    assertEquals(gm.isTCorrectFormat(gm.toTransliteration(signList, 0),
                                     false), false);
} catch (Exception e) {
    assertTrue(false);
}

assertEquals(gm.isTCorrectFormat("3x?", true), false);
```



Kemet Project

Developer Guide for Kemet API (0.2)

v0.2.3d

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See the javadoc for more information.

How to get Gardiner's sign list from transliterated text ?

You have to initialize the grammar manager (see "First Step : How to configure KEMET API ?" section).

Source example :

```
// init data tests...
transliterationList = new String[] { "jqr", "psh." };
results = "M17N29D21Q3[O34;S29]V28";

// the transliteration is not correct
try {
    assertEquals(gm.toHieroglyphs(new String[] { "???" }), "");
} catch (Exception e) {
    assertTrue(false);
}

try {
    assertEquals(gm.toHieroglyphs(new String[] { "" }), "");
} catch (Exception e) {
    assertTrue(false);
}

// the transliteration is correct
try {
    assertEquals(gm.toHieroglyphs(transliterationList), results);
} catch (Exception e) {
    assertTrue(false);
}

// the transliteration is partially correct
try {
    assertEquals(gm.toHieroglyphs(new String[] { "jer" }), "M17D21");
} catch (Exception e) {
    assertTrue(false);
}

try {
    assertEquals(gm.toHieroglyphs(new String[] { "j.r" }), "M17D21");
} catch (Exception e) {
    assertTrue(false);
}
```



Kemet Project

Developer Guide for Kemet API (0.2)

v0.2.3d

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```
}  
  
try {  
    assertEquals(gm.toHieroglyphs(new String[] { "?jer" }), "M17D21");  
} catch (Exception e) {  
    assertTrue(false);  
}
```

The values between hooks represent "id" which have the same transliterated value. They are separated by ",".

In this example for the transliteration which are partially correct, you note that the method is able to get only correct transliterated value.

See the javadoc for more information.

How to get phonetic read from transliterated text ?

Without global approach

You have to initialize the grammar manager (see "First Step : How to configure KEMET API ?" section).

This approach consists in making a phonetic reading of each letter of each transliteration.

Source example :

```
// init data tests...  
transliterationList = new String[] { "jqr", "d_d" };  
results = "ikrdjd";  
  
transliterationList2 = new String[] { "s", "3tp" };  
results2 = "s (deaf)éatèp";  
  
// phonetic read without vowels  
try {  
    assertEquals(gm.toPhoneticRead(transliterationList, false),  
                results);  
} catch (Exception e) {  
    assertTrue(false);  
}  
  
// phonetic read with vowels and complementary information
```



Kemet Project

Developer Guide for Kemet API (0.2)

v0.2.3d

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```
try {
    assertEquals(gm.toPhoneticRead(transliterationList2, true),
                 results2);
} catch (Exception e) {
    assertTrue(false);
}
```

See the javadoc for more information.

With global approach

You have to initialize the grammar manager (see "First Step : How to configure KEMET API ?" section).

This approach consists in making a phonetic reading of each transliteration.

Source example :

```
// tests exceptions to pronunciation particulars cases
try {
    assertEquals(gm.toPhoneticReadWithGlobalApproach(new String[] {
        "mmj", "mj" }, false), "mam");
} catch (Exception e) {
    assertTrue(false);
}

// phonetic read with vowels
try {
    assertEquals(gm.toPhoneticReadWithGlobalApproach(new String[] {
        "mmj", "mj" }, true), "méame");
} catch (Exception e) {
    assertTrue(false);
}
```

See the javadoc for more information.

How to epurate the phonetic complements (for biliteral and trilateral only) ?

You have to initialize the grammar manager (see "First Step : How to configure KEMET API ?" section).

Source example :



Kemet Project

Developer Guide for Kemet API (0.2)

v0.2.3d

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```
// init tests data...
d1 = new String[] { "bb33", "kmm" };
d1Expected = new String[] { "b3", "km" };

private Hashtable<String, String> phInfo;

// get all phonograms with some informations (sign, type)
phInfo = org.kemet.impl.grammar.model.Phonogram.getAllPhonograms();

// treat phonetic complements
assertEquals(Arrays.equals(gm.toEpuratePhoneticComplementFromSequence(
    d1, 2, phInfo, args), d1Expected), true);
```

See the javadoc for more information.

The “integration” step

The “integration” step is the higher level of this package.

This step is very important : it allows to test all the implemented hieroglyphic features (we'll find the list of the features in “features_xx.pdf” files).

2 “toolbox” are supply : the hieroglyph manager and the transliteration manager.

The Hieroglyph manager allows :

- to convert the id of the hieroglyphs to a transliterated sequence
- to convert the id of the hieroglyphs to a list of types (ex : UNILITERAL, PRONOUN)
- to convert the id of the hieroglyphs to a phonetic read.

The transliteration manager allows :

- to “cut” the transliterated sequence in “small” parts (ex : “jwnn” devient “jwn”, “n”)
- to convert the transliterated sequence to a list of hieroglyphs
- to convert the transliterated sequence to a list of types.



Kemet Project

Developer Guide for Kemet API (0.2)

v0.2.3d

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For more informations, please consult the tests in this package.

The “Manual for the encoding of Hieroglyph texts for Computer-Input”

This manual explain how to organize the view of hieroglyphs.

We use “Line” and “Cadrat” (part of a line) to represent hieroglyphs.

We advise you of consult this manual (for more information see “READ_ME.txt” file which contains the name of publisher).

The supported codes

Please find attached the list of supported codes.

Source example :

```
HashMap values = new HashMap();

// Supported MdC code
values.put("-", "ruleIndentVerify");
values.put("*", "ruleStarVerify");
values.put(":", "ruleDoublePointVerify");
values.put("!", "ruleExclamationPointVerify");
values.put("(", "ruleInputBracketVerify");
values.put(")", "ruleOutputBracketVerify");
```

How to initialize the location manager ?

You have to initialize the supported codes (see “The supported codes” section).

Source example :

```
private String input = "N1-N2-G1";
LocationManager ra = null;

try {
    ra = new LocationManager(input, "org.kemet.mdc.LocationRules", values);
}
```



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Developer Guide for Kemet API (0.2)

v0.2.3d

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```
} catch (LocationManagerException e) {  
    assertTrue(true);  
}
```

Special characters are they correct ?

You have to initialize the supported codes (see "The supported codes" section).

Source example :

```
LocationManager ra = null;  
private String input = "N1*N2!G1";  
  
try {  
    ra = new LocationManager(input, "org.kemet.mdc.LocationRules", values);  
    assertEquals(ra.getCorrect().getValue(), EReturnedMdCCode.Ok  
                .getValue());  
} catch (LocationManagerException e) {  
}
```

List of EReturnedMdCCode values = NoSpecialCharacters(0), Ok(1), NotOk(2);

how to use " - " and " * " codes ?

Source example :

```
// 1. "-"  
private String input = "N1-N2-G1";  
  
LocationManager ra = new LocationManager();  
ra.getInformationLocation(input);  
  
assertEquals(Line.size(), 1);  
  
assertEquals(Line.get(0).getCadratList().size(), 3);  
  
assertEquals(Cadrat.get(0).getObject(0).getJustification(),  
              EJustification.CENTER.getValue());  
  
assertEquals(Cadrat.get(0).getObject(0).getIndex(), 1);
```



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v0.2.3d

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```
// 2. "*"
input = "N1*N2*G1";
ra.getInformationLocation(input);

assertEquals(Line.size(), 1);

assertEquals(Line.get(0).getCadratList().size(), 1);
assertEquals(Cadrat.get(0).getObject(0).getJustification(),
              EJustification.LEFT.getValue());

// 3. "*", "-"
input = "N1*N2-G1";
ra.getInformationLocation(input);

assertEquals(Line.size(), 1);
assertEquals(Line.get(0).getCadratList().size(), 2);

assertEquals(Cadrat.get(0).getObject(0).getJustification(),
              EJustification.LEFT.getValue());

assertEquals(Cadrat.get(0).getObject(1).getJustification(),
              EJustification.RIGHT.getValue());

assertEquals(Cadrat.get(1).getObject(0).getJustification(),
              EJustification.CENTER.getValue());

// 4. tests for justification
input = "N1*N2*X1*A15-G1*N3-G1-N2";
ra.getInformationLocation(input);

assertEquals(Line.size(), 1);
assertEquals(Line.get(0).getCadratList().size(), 4);

assertEquals(Cadrat.get(0).getObject(0).getJustification(),
              EJustification.NoJustification.getValue());
assertEquals(Cadrat.get(0).getObject(0).getIndex(), 1);

assertEquals(Cadrat.get(0).getObject(1).getJustification(),
              EJustification.NoJustification.getValue());
assertEquals(Cadrat.get(0).getObject(1).getIndex(), 2);

assertEquals(Cadrat.get(1).getObject(0).getJustification(),
              EJustification.LEFT.getValue());

assertEquals(Cadrat.get(2).getObject(0).getJustification(),
```



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```
EJustification.CENTER.getValue());
assertEquals(Cadtrat.get(3).getObject(0).getJustification(),
             EJustification.CENTER.getValue());

// 5. tests for associated signs
assertEquals(Cadtrat.get(0).getSign(0), "N1");
assertEquals(Cadtrat.get(0).getSign(1), "N2");
assertEquals(Cadtrat.get(1).getSign(0), "G1");
```

See the javadoc for more informations.

How to use “:” code ?

Source example :

```
LocationManager ra = new LocationManager();
input = "N1*P1:N2";

ra.getInformationLocation(input);

assertEquals(Line.size(), 1);
assertEquals(Line.get(0).getCadtratList().size(), 2);

assertEquals(Cadtrat.get(0).getType(), ECadtratType.upHalf.getValue());
assertEquals(Cadtrat.get(1).getType(), ECadtratType.downHalf.getValue());

ra = new LocationManager();
input = "N1:P1-G1";
ra.getInformationLocation(input);

assertEquals(Line.size(), 1);
assertEquals(Line.get(0).getCadtratList().size(), 3);

assertEquals(Cadtrat.get(0).getType(), ECadtratType.upHalf.getValue());
assertEquals(Cadtrat.get(1).getType(), ECadtratType.downHalf.getValue());

assertEquals(Cadtrat.get(2).getType(), ECadtratType.full.getValue());
```

See the javadoc for more informations.

How to use the end of line ?



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Source example :

```
LocationManager ra = null;
private String[] input = new String[] {
    "N1*P1:N2!N1:P1-G1", "N1*P1:N2!N1:P1-G1!" };

try {
    ra = new LocationManager(input[0], Messages
        .getString("LocationManager.4"), values);
} catch (LocationManagerException e) {
}

try {
    ra = new LocationManager(input[1], Messages
        .getString("LocationManager.4"), values);
} catch (LocationManagerException e) {
    assertTrue(true);
}

ra = new LocationManager();
ra.getInformationLocation(input[0]);

assertEquals(Line.size(), 2);

Cadrat c = (Cadrat) Line.get(0).getCadratList().get(0);
assertEquals(c.getType(), ECadratType.upHalf.getValue());

c = (Cadrat) Line.get(0).getCadratList().get(1);
assertEquals(c.getType(), ECadratType.downHalf.getValue());

c = (Cadrat) Line.get(1).getCadratList().get(2);
assertEquals(c.getType(), ECadratType.full.getValue());

c = (Cadrat) Line.get(1).getCadratList().get(0);
assertEquals(c.getObject(0).getJustification(), EJustification.CENTER
    .getValue());

c = (Cadrat) Line.get(0).getCadratList().get(0);
assertEquals(c.getObject(0).getJustification(), EJustification.LEFT
    .getValue());

c = (Cadrat) Line.get(0).getCadratList().get(0);
assertEquals(c.getObject(1).getJustification(), EJustification.RIGHT
    .getValue());
```



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```
c = (Cadrat) Line.get(0).getCadratList().get(1);
assertEquals(c.getObject(0).getJustification(), EJustification.CENTER
              .getValue());
```

See the javadoc for more informations.

How to use the “ (“ and “) ” codes ?

Source example :

```
private String[] input = new String[] { "G1*(N1:N2):P1", "G1*(N1:N2:P1",
                                         "G1*)N1:N2:P1", "G1*((N1:N2)):P1" };
LocationManager ra = null;

try {
    ra = new LocationManager(input[0], Messages
                             .getString("LocationManager.4"), values);
} catch (LocationManagerException e) {
}

try {
    ra = new LocationManager(input[1], Messages
                             .getString("LocationManager.4"), values);
} catch (LocationManagerException e) {
    assertTrue(true);
}

try {
    ra = new LocationManager(input[2], Messages
                             .getString("LocationManager.4"), values);
} catch (LocationManagerException e) {
    assertTrue(true);
}

try {
    ra = new LocationManager(input[3], Messages
                             .getString("LocationManager.4"), values);
} catch (LocationManagerException e) {
    assertTrue(true);
}

ra = new LocationManager();
ra.getInformationLocation(input[0]);
```



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```
assertEquals(Line.size(), 1);
assertEquals(Line.get(0).getCadratList().size(), 5);

Cadrat c = (Cadrat) Line.get(0).getCadratList().get(0);
assertEquals(c.getType(), ECadratType.full.getValue());

c = (Cadrat) Line.get(0).getCadratList().get(1);
assertEquals(c.getType(), ECadratType.rightquarter.getValue());

c = (Cadrat) Line.get(0).getCadratList().get(2);
assertEquals(c.getType(), ECadratType.upHalf.getValue());

c = (Cadrat) Line.get(0).getCadratList().get(3);
assertEquals(c.getType(), ECadratType.downHalf.getValue());

c = (Cadrat) Line.get(0).getCadratList().get(4);
assertEquals(c.getType(), ECadratType.downHalf.getValue());

// justification tests

c = (Cadrat) Line.get(0).getCadratList().get(0);
assertEquals(c.getObject(0).getJustification(), EJustification.CENTER
    .getValue());

c = (Cadrat) Line.get(0).getCadratList().get(1);
assertEquals(c.size(), 0);

c = (Cadrat) Line.get(0).getCadratList().get(2);
assertEquals(c.getObject(0).getJustification(), EJustification.CENTER
    .getValue());

c = (Cadrat) Line.get(0).getCadratList().get(4);
assertEquals(c.getObject(0).getJustification(), EJustification.CENTER
    .getValue());
```

See the javadoc for more informations.



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Some examples

Please consult the “tests” directory supplies. It contains a suite of tests based of hieroglyphic features which were described.

Glossary

Please find attached the definition of the notions which are used by the KEMET API.

Notion	Definition
Transliteration	Word for word reading of a hieroglyphic sequence (with symbols appropriate for the transliteration)
Phonogram	Represent one or several sounds associated with a phonetic value
unilateral	Phonogram containing that a single sound
biliteral	Phonogram containing 2 sounds
triliteral	Phonogram containing 3 sounds
Phonetic complement	Useful to differentiate 2 terms written in the same way - a phonetic complement does not pronounce
Semi - consonant	Can take the value of a consonant or a vowel



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