SEP #3 : Add of a build documentation function

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Title: Add of a build documentation function
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Abstract

This SEP proposes to add a new Scilab function in order to build Scilab's documentation. The current solution based on sh & DOS batch files is far from being efficient (hardcoded path, duplicate code, needs the Scilab Dev-Tools env...)

Rationale

Scilab building documentation process has been **rewrote** for Scilab 5 using **docbook**. However, the way it has been done causes a serie of **strong issues**.

Then, it has been decided to **rewrite the build process.**

sh and DOS scripts (SCI/modules/helptools/bin/*) are calling Java object with arguments as arguments. Therefore, it is pretty **straightforward to move this into a Scilab function**.

The build documentation process manages:

> ** XML scilab help => CHM*
>
> ** XML scilab help => HTML*
>
> ** XML scilab help => JH (Java Help)*
>
> ** XML scilab help => PDF*
>
> ** XML scilab help => Postscript*

To provide these features in Scilab, here is the **profile of the new function** proposed:

Note that the default master file is *SCI+"/modules/helptools/master_"+getlanguage()+"_help.xml*

buildDoc( ) => Build the documentation to the Java Help format using the default master file

buildDoc("format") => Build the documentation to the selected format

buildDoc("format"," master-xml-file") => Build the documentation to the selected format using the specified XML file.

Format can have the following values: *"CHM ", "HTML ", "JH ", "PDF ", "PS "*

Other features are also provided:

   * Convert a Scilab 4 man file => docbook format

   => This feature is **too specific** and won't be moved as a Scilab function (however, some work is needed on this file)

   * Provides a stand alone viewer

   => This feature is **too specific** and won't be moved as a Scilab function (however, some work is needed on this file)

   * Check if a documentation file is conform to the reference syntax

   => This feature will be **available from Scilab**

To provide this feature, here is the **profile of the new function** proposed:

Note that the default schema is SCI*/modules/helptools/schema /scilab.rnc*

checkDoc() => Check the syntax of the default file help *SCI+"/modules/helptools/master_"+getlanguage()+"_help.xml*

checkDoc(" xml-file ") => Check the syntax of the *xml-file*

checkDoc(" xml-file ","reference-schema") => Check the syntax of the xml-file against a specified reference-schema

In the meantime, the package *org.scilab.doc_kit* would be renamed to *org.scilab.modules.helptools* to match the current architecture.

Example Usage

```
buildDoc()
```

```
buildDoc(" PDF" )
```

```
buildDoc("JH" ," /home/sylvestre/scilab5/modules/helptools/master_fr_FR_help.xml" )
```

```
buildDoc("JH"     ,"     /home/sylvestre/scilab5/modules/helptools/master_fr_FR_help.xml"     )
```

```
checkDoc()
```

```
checkDoc(" /home/sylvestre/scilab5/modules/helptools/master_fr_FR_help.xml" )
```

```
checkDoc("                /home/sylvestre/scilab5/modules/helptools/master_fr_FR_help.xml","
/home/sylvestre/scilab5/modules/helptools/schema/scilab-sylvestre.rnc" )
```

Changelog

1.0 – Sylvestre Ledru <sylvestre.ledru@scilab.org> Initial version

1.1 – Sylvestre Ledru <sylvestre.ledru@scilab.org> Two typos fixed. SLIP renamed to SEP

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