GODTextIO

André M. Vale Evandro F. Giovanini

Departamento de Ciências da Computação Universidade de São Paulo

25 de junho de 2015

- Objetivo: importar e exportar dados de GODData para arquivos PDF, RTF, DOC, etc
- Escopo inicial:
 - AbiWord atual incompatível com o projeto
 - Sem suporte para doc e docx
- Metodologia adotada:
 - Substituir o AbiWord por unoconv (Libreoffice)
 - Implementação dos formatos DOC e DOCX

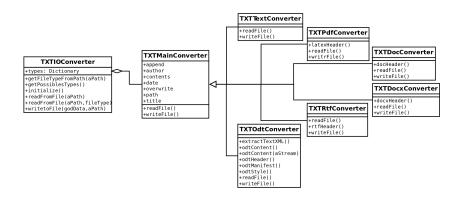


Diagrama de Classes

GODData

Object subclass: #GODData
instanceVariableNames: 'timestamp origin author title content tags width height layoutGrid id'
classVariableNames: "
poolDictionaries: "
category: 'GODKernel'

Testes

testOSProcessUnoconv testOSProcessUnoconv

testReadDocFromFileReturn testWriteDocToExistentFileOverwrite testWriteDocToFileAppend testWriteDocToFileBasic testWriteDocToFileOverwrite testWriteDocToNonexistentFileAppend

testReadDocxFromFileReturn testWriteDocxToExistentFileOverwrite testWriteDocxToFileAppend testWriteDocxToFileBasic testWriteDocxToFileOverwrite testWriteDocxToNonexistentFileAppend

testOSProcessUnocony

testOSProcessUnoconv

"Test for the existance of unoconv in the environment" | osproc |

osproc := OSProcess waitForCommand: 'unoconv --help'. self assert: (osproc exitStatus = 0).

testWriteDocToFileBasic

testWriteDocToFileBasic

```
"Tests write: toFile: method, and its variants"
| filePrefix godData |
godData := GODData new.
godData author: 'TextIO Group'.
godData content: 'Test from Text Processing module - Write Basic Doc'.
godData origin: 'TextIO'.
godData timestamp: TimeStamp now asString.
godData title: 'Test from TextIO Group'.
filePrefix := testDir pathName, FileDirectory slash, ( DateAndTime now asNanoSeconds ) asString, ' basic doc'.
self assert: ( textiO write: godData toFile: filePrefix, ' 1.doc' ).
self assert: ( textlO write: godData toFile: filePrefix, ' 2.doc' type: 'doc' ).
self assert: ( textiO write: qodData toFile: filePrefix, ' 3.doc' type: 'doc' append: false ).
self assert: ( textIO write: godData toFile: filePrefix, ' 4.doc' type: 'doc' overwrite: false ).
self assert: (FileDirectory new fileExists: filePrefix, ' 1.doc').
self assert: (FileDirectory new fileExists: filePrefix, ' 2.doc' ).
self assert: (FileDirectory new fileExists: filePrefix, ' 3.doc').
self assert: (FileDirectory new fileExists: filePrefix, ' 4.doc').
```

Chamada ao unoconv

```
convertFileType: fileType
"Convert file in path to fileType using abiword."

| tmpPath |

tmpPath := ( FileDirectory default ) pathName, FileDirectory slash, DateAndTime now asNanoSeconds, '', fileType.

OSProcess waitForCommand: 'unoconv --format=', fileType, path.

( FileDirectory new fileExists: tmpPath )
    ifTrue: [ ^tmpPath ]
    ifFalse: [ GODTextIOFailedToConvertType signal. ].
```

Escrevendo um arquivo DOC

writeFile

```
"Write 'content' to a Doc file in path 'path'."
| cReadStream cWriteStream docFile docCode |
cReadStream := ReadStream on ( self contents )
cWriteStream := WriteStream on: ( String new ).
"This replacement is done in order to convert a line break in a different paragraph"
cReadStream do: [ :each | ( each = Character cr )
    ifTrue: [ cWriteStream nextPutAll: '\par ' ]
    ifFalse: [ cWriteStream nextPut: each. ]. ].
docCode := '{', self docHeader, Character cr.
( self title = nil ) ifFalse: [ docCode := docCode, '{\gc \b \fs32 ', self title, '\par}', Character cr. ].
( self author = nil ) ifFalse: [ docCode := docCode, '{\qc \fs28 ', self author, '\par}', Character cr. ].
( self date = nil ) ifFalse: [ docCode := docCode, '{\qc \fs24 ', self date, '\par}', Character cr. ].
docCode := docCode, '\par \qi \fs22 ', cWriteStream contents, '\par \'.
"Write the .doc file using the TXTTextConverter class."
docFile := TXTTextConverter new
docFile append: false.
docFile contents: docCode
docFile overwrite: self overwrite.
docFile path: self path.
docFile writeFile
```