Package 'atom4R'

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Title Tools to Handle and Publish Metadata as 'Atom' XML Format

Maintainer Emmanuel Blondel <emmanuel.blondel1@gmail.com>

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Suggests testthat

Description Provides tools to read/write/publish metadata based on the 'Atom' XML syndication format. This includes
support of 'Dublin Core' XML implementation, and a client to API(s) implementing the 'AtomPub' 'SWORD' API specification.

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Author Emmanuel Blondel [aut, cre] (<https://orcid.org/0000-0002-5870-5762>)

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`atom4R` *Tools to Handle and Publish Metadata as Atom XML Format*

Description

Provides tools to read/write/publish metadata based on the Atom XML syndication format. This includes support of Dublin Core XML implementation, and a client to APIs implementing the AtomPub SWORD API specification.

Author(s)

Emmanuel Blondel <emmanuel.blondel1@gmail.com>

atom4RLogger *atom4RLogger*

Description

atom4RLogger

atom4RLogger

Format

R6Class object.

Value

Object of R6Class for modelling a simple logger

Public fields

`verbose.info` If package info log messages have to be printed out

`verbose.debug` If curl debug log messages have to be printed out

`loggerType` the type of logger

Methods

Public methods:

- atom4RLogger$logger()
- atom4RLogger$INFO()
- atom4RLogger$WARN()
- atom4RLogger$ERROR()
- atom4RLogger$new()
- atom4RLogger$getClassName()
- atom4RLogger$getClass()
- atom4RLogger$clone()

Method `logger()`**:** Provides log messages

Usage:

```
atom4RLogger$logger(type, text)
```

Arguments:

`type` type of log ("INFO", "WARN", "ERROR")

`text` the log message text

Method `INFO()`**:** Provides INFO log messages

Usage:

```
atom4RLogger$INFO(text)
```

Arguments:

`text` the log message text

Method `WARN()`**:** Provides WARN log messages

Usage:

```
atom4RLogger$WARN(text)
```

Arguments:

`text` the log message text

Method `ERROR()`**:** Provides ERROR log messages

Usage:

```
atom4RLogger$ERROR(text)
```

Arguments:

`text` the log message text

Method `new()`**:** Initalizes the logger

Usage:

```
atom4RLogger$new(logger = NULL)
```

Arguments:

`logger` logger type "INFO", "DEBUG" or `NULL`

Method `getClassName()`**:** Get class name

Usage:

```
atom4RLogger$getClassName()
```

Returns: object of class `data.frame`

Method `getClass()`**:** Get class

Usage:

```
atom4RLogger$getClass()
```

Returns: object of class R6Class

Method `clone()`**:** The objects of this class are cloneable with this method.

Usage:

```
atom4RLogger$clone(deep = FALSE)
```

Arguments:

`deep` Whether to make a deep clone.

Note

Logger class used internally by atom4R

`AtomAbstractObject` *Atom feed class*

Description

This class models an atom abstract object

Format

`R6Class` object.

Details

AtomAbstractObject

Value

Object of `R6Class` for modelling an Atom abstract Object

Super class

`atom4R::atom4RLogger` -> `AtomAbstractObject`

Public fields

`wrap` wrapping XML element

`element` element

`namespace` namespace

`defaults` defaults

`attrs` attrs

`printAttrs` attrs to print

`parentAttrs` parent attrs

Methods

Public methods:

- `AtomAbstractObject$new()`
- `AtomAbstractObject$setIsDocument()`
- `AtomAbstractObject$isDocument()`
- `AtomAbstractObject$getRootElement()`
- `AtomAbstractObject$getNamespace()`
- `AtomAbstractObject$createElement()`
- `AtomAbstractObject$addListElement()`
- `AtomAbstractObject$delListElement()`

- AtomAbstractObject$contains()
- AtomAbstractObject$print()
- AtomAbstractObject$decode()
- AtomAbstractObject$encode()
- AtomAbstractObject$validate()
- AtomAbstractObject$save()
- AtomAbstractObject$isFieldInheritedFrom()
- AtomAbstractObject$getClassName()
- AtomAbstractObject$getClass()
- AtomAbstractObject$getNamespaceDefinition()
- AtomAbstractObject$getXmlElement()
- AtomAbstractObject$clone()

Method `new()`**:** Initializes an object of class AtomAbstractObject

Usage:

```
AtomAbstractObject$new(
  xml = NULL,
  element = NULL,
  namespace = NULL,
  attrs = list(),
  defaults = list(),
  wrap = TRUE,
  logger = "INFO"
)
```

Arguments:

`xml` object of class XMLInternalNode-class

`element` element

`namespace` namespace

`attrs` attrs

`defaults` defaults

`wrap` wrap

`logger` logger type

Method `setIsDocument()`**:** Set if object is a document or not

Usage:

```
AtomAbstractObject$setIsDocument(isDocument)
```

Arguments:

`isDocument` object of class `logical`

Method `isDocument()`**:** Informs if the object is a document

Usage:

```
AtomAbstractObject$isDocument()
```

Returns: object of class `logical`

Method `getRootElement()`**:** Get root XML element

Usage:

```
AtomAbstractObject$getRootElement()
```

Returns: object of class `character`

Method `getNamespace()`**:** Get XML namespace

Usage:

```
AtomAbstractObject$getNamespace()
```

Returns: object of class `character`

Method `createElement()`**:** Creates an element

Usage:

```
AtomAbstractObject$createElement(element, type = "text")
```

Arguments:

`element` element

`type` type. Default is "text"

Returns: the typed element

Method `addListElement()`**:** Add a metadata element to an element list

Usage:

```
AtomAbstractObject$addListElement(field, metadataElement)
```

Arguments:

`field` field

`metadataElement` metadata element to add

Returns: `TRUE` if added, `FALSE` otherwise

Method `delListElement()`**:** Deletes a metadata element from an element list

Usage:

```
AtomAbstractObject$delListElement(field, metadataElement)
```

Arguments:

`field` field

`metadataElement` metadata element to add

Returns: `TRUE` if deleted, `FALSE` otherwise

Method `contains()`**:** Indicates if an element list contains or not an element

Usage:

```
AtomAbstractObject$contains(field, metadataElement)
```

Arguments:

`field` field

`metadataElement` metadata element to add

Returns: `TRUE` if contained, `FALSE` otherwise

Method `print()`**:** Prints the element

Usage:

```
AtomAbstractObject$print(..., depth = 1)
```

Arguments:

`...` any parameter to pass to print method

`depth` printing depth

Method `decode()`**:** Decodes the object from an **XML** representation

Usage:

```
AtomAbstractObject$decode(xml)
```

Arguments:

`xml` object of class XMLInternalNode-class from **XML**

Method `encode()`**:** Encodes the object as XML

Usage:

```
AtomAbstractObject$encode(
  addNS = TRUE,
  validate = TRUE,
  strict = FALSE,
  encoding = "UTF-8"
)
```

Arguments:

`addNS` whether namespace has to be added. Default is `TRUE`

`validate` whether validation has to be done vs. XML schemas. Default is `TRUE`

`strict` whether strict validation has to be operated (raise an error if invalid). Default is `FALSE`

`encoding` encoding. Default is "UTF-8"

Method `validate()`**:** Validates the object / XML vs. XML schemas

Usage:

```
AtomAbstractObject$validate(xml = NULL, strict = FALSE)
```

Arguments:

`xml` object of class XMLInternalNode-class from **XML**

`strict` strict validation or not

Returns: `TRUE` if valid, `FALSE` otherwise

Method `save()`**:** Saves the object as XML file

Usage:

```
AtomAbstractObject$save(file, ...)
```

Arguments:

`file` file name

`...` any parameter to pass to `encode()` method

Method `isFieldInheritedFrom()`**:** Indicates the class from which field is inherited

Usage:

```
AtomAbstractObject$isFieldInheritedFrom(field)
```

Arguments:

`field` field

Returns: an object of class R6Class, or `NULL`

Method `getClassName()`**:** Get class name

Usage:

```
AtomAbstractObject$getClassName()
```

Returns: object of class `character`

Method `getClass()`**:** Get class

Usage:

```
AtomAbstractObject$getClass()
```

Returns: object of class R6Class

Method `getNamespaceDefinition()`**:** Get namespace definition

Usage:

```
AtomAbstractObject$getNamespaceDefinition(recursive = FALSE)
```

Arguments:

`recursive` recursive

Returns: a named `list` of the XML namespaces

Method `getXmlElement()`**:** Get XML element name

Usage:

```
AtomAbstractObject$getXmlElement()
```

Returns: object of class `character`

Method `clone()`**:** The objects of this class are cloneable with this method.

Usage:

```
AtomAbstractObject$clone(deep = FALSE)
```

Arguments:

`deep` Whether to make a deep clone.

Note

abstract class used internally by **atom4R**

Author(s)

Emmanuel Blondel <emmanuel.blondel1@gmail.com>

AtomAuthor *Atom Author class*

Description

This class models an Atom Author

Format

R6Class object.

Details

AtomAuthor

Value

Object of R6Class for modelling an Atom Author

Super classes

atom4R::atom4RLogger -> atom4R::AtomAbstractObject -> atom4R::AtomPerson -> AtomAuthor

Methods

Public methods:

- AtomAuthor$new()
- AtomAuthor$clone()

Method new(): Initializes an AtomAuthor

Usage:

```
AtomAuthor$new(xml = NULL, name = NULL, uri = NULL, email = NULL)
```

Arguments:

xml object of class XMLInternalNode-class from **XML**

name name

uri uri

email email

Method clone(): The objects of this class are cloneable with this method.

Usage:

```
AtomAuthor$clone(deep = FALSE)
```

Arguments:

deep Whether to make a deep clone.

Author(s)

Emmanuel Blondel <emmanuel.blondel1@gmail.com>

Examples

```
## Not run:
  author <- AtomAuthor$new(name = "John Doe", email = "john.doe@atom4R.com")

## End(Not run)
```

`AtomCategory` *Atom Category class*

Description

This class models an atom Category

Format

`R6Class` object.

Details

AtomCategory

Value

Object of `R6Class` for modelling an Atom Category

Super classes

`atom4R::atom4RLogger` -> `atom4R::AtomAbstractObject` -> `AtomCategory`

Public fields

`attrs` attrs

`value` value

Methods

Public methods:

- `AtomCategory$new()`
- `AtomCategory$setTerm()`
- `AtomCategory$setScheme()`
- `AtomCategory$setLabel()`
- `AtomCategory$clone()`

Method `new()`: Initializes an AtomCategory

Usage:

```
AtomCategory$new(
  xml = NULL,
  value = NULL,
  term = NULL,
  scheme = NULL,
  label = NULL
)
```

Arguments:

`xml` object of class XMLInternalNode-class from **XML**

`value` value

`term` term

`scheme` scheme

`label` label

Method `setTerm()`: Set term

Usage:

```
AtomCategory$setTerm(term)
```

Arguments:

`term` term

Method `setScheme()`: Set scheme

Usage:

```
AtomCategory$setScheme(scheme)
```

Arguments:

`scheme` scheme

Method `setLabel()`: Set label

Usage:

```
AtomCategory$setLabel(label)
```

Arguments:

`label` label

Method `clone()`: The objects of this class are cloneable with this method.

Usage:

```
AtomCategory$clone(deep = FALSE)
```

Arguments:

`deep` Whether to make a deep clone.

Author(s)

Emmanuel Blondel <emmanuel.blondel1@gmail.com>

AtomContributor *Atom Contributorr class*

Description

This class models an Atom Contributor

Format

R6Class object.

Details

AtomContributor

Value

Object of R6Class for modelling an Atom Contributor

Super classes

atom4R::atom4RLogger -> atom4R::AtomAbstractObject -> atom4R::AtomPerson -> AtomContributor

Methods

Public methods:

- AtomContributor$new()
- AtomContributor$clone()

Method new(): Initializes an AtomContributor

Usage:

```
AtomContributor$new(xml = NULL, name = NULL, uri = NULL, email = NULL)
```

Arguments:

xml object of class XMLInternalNode-class from **XML**

name name

uri uri

email email

Method clone(): The objects of this class are cloneable with this method.

Usage:

```
AtomContributor$clone(deep = FALSE)
```

Arguments:

deep Whether to make a deep clone.

Author(s)

Emmanuel Blondel <emmanuel.blondel1@gmail.com>

Examples

```
## Not run:
  contrib <- AtomContributor$new(name = "John Doe", email = "john.doe@atom4R.com")

## End(Not run)
```

`AtomEntry` *Atom Entry class*

Description

This class models an atom Entry

Format

`R6Class` object.

Details

AtomEntry

Value

Object of `R6Class` for modelling an Atom Entry

Super classes

`atom4R::atom4RLogger` -> `atom4R::AtomAbstractObject` -> `AtomEntry`

Public fields

`id` identifier
`updated` Update date/time
`published` Publication date/time
`title` Title
`summary` Summary
`rights` Rights
`source` Source
`author` Author(s)
`contributor` Contributor(s)
`category` Category
`content` Content

Methods

Public methods:

- AtomEntry$new()
- AtomEntry$setId()
- AtomEntry$setUpdated()
- AtomEntry$setPublished()
- AtomEntry$setTitle()
- AtomEntry$setSummary()
- AtomEntry$setRights()
- AtomEntry$setSource()
- AtomEntry$addAuthor()
- AtomEntry$delAuthor()
- AtomEntry$addContributor()
- AtomEntry$delContributor()
- AtomEntry$addCategory()
- AtomEntry$delCategory()
- AtomEntry$addLink()
- AtomEntry$delLink()
- AtomEntry$setContent()
- AtomEntry$clone()

Method `new()`**:** Initializes an AtomEntry

Usage:

```
AtomEntry$new(xml = NULL)
```

Arguments:

`xml` object of class XMLInternalNode-class from **XML**

Method `setId()`**:** Set ID

Usage:

```
AtomEntry$setId(id)
```

Arguments:

`id` id

Method `setUpdated()`**:** Set updated date

Usage:

```
AtomEntry$setUpdated(updated)
```

Arguments:

`updated` object of class `Date` or `POSIXt`

Method `setPublished()`**:** Set published date

Usage:

```
AtomEntry$setPublished(published)
```

Arguments:

`published` object of class `Date` or `POSIXt`

Method `setTitle()`**:** Set title

Usage:

```
AtomEntry$setTitle(title, type = "text")
```

Arguments:

`title` title

`type` type. Default is "text"

Method `setSummary()`**:** Set summary

Usage:

```
AtomEntry$setSummary(summary, type = "text")
```

Arguments:

`summary` summary

`type` type. Default is "text"

Method `setRights()`**:** Set rights

Usage:

```
AtomEntry$setRights(rights, type = "text")
```

Arguments:

`rights` rights

`type` type. Default is "text"

Method `setSource()`**:** Set source

Usage:

```
AtomEntry$setSource(source, type = "text")
```

Arguments:

`source` source

`type` type. Default is "text"

Method `addAuthor()`**:** Adds author

Usage:

```
AtomEntry$addAuthor(author)
```

Arguments:

`author` object of class AtomAuthor

Returns: `TRUE` if added, `FALSE` otherwise

Method `delAuthor()`**:** Deletes author

Usage:

```
AtomEntry$delAuthor(author)
```

Arguments:

`author` object of class AtomAuthor

Returns: `TRUE` if deleted, `FALSE` otherwise

Method `addContributor()`**:** Adds contributor

Usage:

```
AtomEntry$addContributor(contributor)
```

Arguments:

`contributor` object of class AtomContributor

Returns: `TRUE` if added, `FALSE` otherwise

Method `delContributor()`**:** Deletes contributor

Usage:

```
AtomEntry$delContributor(contributor)
```

Arguments:

`contributor` object of class AtomContributor

Returns: `TRUE` if deleted, `FALSE` otherwise

Method `addCategory()`**:** Adds category

Usage:

```
AtomEntry$addCategory(value, term, scheme = NULL, label = NULL)
```

Arguments:

`value` value
`term` term
`scheme` scheme
`label` label

Returns: `TRUE` if added, `FALSE` otherwise

Method `delCategory()`**:** Deletes category

Usage:

```
AtomEntry$delCategory(value, term, scheme = NULL, label = NULL)
```

Arguments:

`value` value
`term` term
`scheme` scheme
`label` label

Returns: `TRUE` if deleted, `FALSE` otherwise

Method `addLink()`**:** Adds link

Usage:

```
AtomEntry$addLink(link, rel = "alternate", type = "text/html")
```

Arguments:

`link` link
`rel` relation. Default is "alternate"
`type` type. Default is "text/html"

Returns: `TRUE` if added, `FALSE` otherwise

Method `delLink()`**:** Deletes link

Usage:

```
AtomEntry$delLink(link, rel = "alternate", type = "text/html")
```

Arguments:

`link` link
`rel` relation. Default is "alternate"
`type` type. Default is "text/html"

Returns: `TRUE` if deleted, `FALSE` otherwise

Method `setContent()`**:** Set content

Usage:

```
AtomEntry$setContent(content)
```

Arguments:

`content` content

Method `clone()`**:** The objects of this class are cloneable with this method.

Usage:

```
AtomEntry$clone(deep = FALSE)
```

Arguments:

`deep` Whether to make a deep clone.

Author(s)

Emmanuel Blondel <emmanuel.blondel1@gmail.com>

Examples

```
## Not run:
 #encoding
 atom <- AtomEntry$new()
 atom$setId("my-atom-entry")
 atom$setTitle("My Atom feed entry")
 atom$setSummary("My Atom feed entry very comprehensive abstract")
 author1 <- AtomAuthor$new(
   name = "John Doe",
   uri = "http://www.atomxml.com/johndoe",
   email = "johndoe@atom4R.com"
 )
 atom$addAuthor(author1)
 author2 <- AtomAuthor$new(
   name = "John Doe's sister",
```

```
  uri = "http://www.atomxml.com/johndoesister",
  email = "johndoesister@atom4R.com"
)
atom$addAuthor(author2)
contrib1 <- AtomContributor$new(
  name = "Contrib1",
  uri = "http://www.atomxml.com/contrib1",
  email = "contrib1@atom4R.com"
)
atom$addContributor(contrib1)
contrib2 <- AtomContributor$new(
  name = "Contrib2",
  uri = "http://www.atomxml.com/contrib2",
  email = "contrib2@atom4R.com"
)
atom$addContributor(contrib2)
atom$addCategory("draft", "dataset")
atom$addCategory("world", "spatial")
atom$addCategory("fisheries", "domain")

xml <- atom$encode()

## End(Not run)
```

`AtomFeed` *Atom feed class*

Description

This class models an atom feed

Format

`R6Class` object.

Details

AtomFeed

Value

Object of `R6Class` for modelling an Atom feed

Methods

`new(xml)` This method is used to create an Atom Feed

`setId(id)` Set identifier

`setUpdated(updated)` Set update date (object of class 'character' or 'POSIX')

`addLink(link, rel, type)` Adds a link. Default `rel` value is set to "alternate". Default `type` value is set to "text/html"

`delLink(link, rel, type)` Deletes a link

`setSelfLink(link)` Sets a self-relation link

`setAlternateLink(link, type)` Sets an alternate-relation link. Default type is "text/html"

`setTitle(title)` Set title

`setSubtitle(subtitle)` Set subtitle

`addAuthor(author)` Adds an author, object of class `AtomAuthor`

`delAuthor(author)` Deletes an author, object of class `AtomAuthor`

`addContributor(contributor)` Adds a contributor, object of class `AtomContributor`

`delContributor(contributor)` Deletes a contributor, object of class `AtomContributor`

`setGenerator(generator, type)` Sets generator

`setIcon(icon)` Sets icon

`addCategory(term, scheme, label)` Adds a category

`delCategory(term, scheme, label)` Deletes a category

`addEntry(entry)` Adds an entry, object of class `AtomEntry`

`delEntry(entry)` Deletes an entry, object of class `AtomEntry`

Super classes

`atom4R::atom4RLogger` -> `atom4R::AtomAbstractObject` -> `AtomFeed`

Public fields

`id` Identifier

`updated` Update date

`published` Publication date

`title` Title

`subtitle` Subtitle

`rights` Rights (license, use, ...)

`author` Author person

`contributor` Contributor person

`generator` Generator

`icon` Icon

`logo` Logo

`category` Category

`link` links

`entry` List of entries

Methods

Public methods:

- AtomFeed$new()
- AtomFeed$setId()
- AtomFeed$setUpdated()
- AtomFeed$setPublished()
- AtomFeed$addLink()
- AtomFeed$delLink()
- AtomFeed$setSelfLink()
- AtomFeed$setAlternateLink()
- AtomFeed$setTitle()
- AtomFeed$setSubtitle()
- AtomFeed$setRights()
- AtomFeed$addAuthor()
- AtomFeed$delAuthor()
- AtomFeed$addContributor()
- AtomFeed$delContributor()
- AtomFeed$setGenerator()
- AtomFeed$setIcon()
- AtomFeed$addCategory()
- AtomFeed$delCategory()
- AtomFeed$addEntry()
- AtomFeed$delEntry()
- AtomFeed$clone()

Method `new()`**:** Initializes a AtomFeed

Usage:

```
AtomFeed$new(xml = NULL)
```

Arguments:

`xml` object of class XMLInternalNode-class from **XML**

Method `setId()`**:** Set ID

Usage:

```
AtomFeed$setId(id)
```

Arguments:

`id` id

Method `setUpdated()`**:** Set updated date

Usage:

```
AtomFeed$setUpdated(updated)
```

Arguments:

`updated` object of class `Date` or `POSIXt`

Method `setPublished()`**:** Set published date

Usage:

```
AtomFeed$setPublished(published)
```

Arguments:

`published` object of class `Date` or `POSIXt`

Method `addLink()`**:** Adds link

Usage:

```
AtomFeed$addLink(link, rel = "alternate", type = "text/html")
```

Arguments:

`link` link

`rel` relation. Default is "alternate"

`type` type. Default is "text/html"

Returns: `TRUE` if added, `FALSE` otherwise

Method `delLink()`**:** Deletes link

Usage:

```
AtomFeed$delLink(link, rel = "alternate", type = "text/html")
```

Arguments:

`link` link

`rel` relation. Default is "alternate"

`type` type. Default is "text/html"

Returns: `TRUE` if deleted, `FALSE` otherwise

Method `setSelfLink()`**:** Set self link

Usage:

```
AtomFeed$setSelfLink(link)
```

Arguments:

`link` link

Returns: `TRUE` if set, `FALSE` otherwise

Method `setAlternateLink()`**:** Set alternate link

Usage:

```
AtomFeed$setAlternateLink(link, type = "text/html")
```

Arguments:

`link` link

`type` type. Default is "text/html"

Returns: `TRUE` if set, `FALSE` otherwise

Method `setTitle()`**:** Set title

Usage:

```
AtomFeed$setTitle(title, type = "text")
```

Arguments:

`title` title

`type` type. Default is "text"

Method `setSubtitle()`**:** Set subtitle

Usage:

```
AtomFeed$setSubtitle(subtitle, type = "text")
```

Arguments:

`subtitle` subtitle

`type` type. Default is "text"

Method `setRights()`**:** Set rights

Usage:

```
AtomFeed$setRights(rights, type = "text")
```

Arguments:

`rights` rights

`type` type. Default is "text"

Method `addAuthor()`**:** Adds author

Usage:

```
AtomFeed$addAuthor(author)
```

Arguments:

`author` object of class AtomAuthor

Returns: `TRUE` if added, `FALSE` otherwise

Method `delAuthor()`**:** Deletes author

Usage:

```
AtomFeed$delAuthor(author)
```

Arguments:

`author` object of class AtomAuthor

Returns: `TRUE` if deleted, `FALSE` otherwise

Method `addContributor()`**:** Adds contributor

Usage:

```
AtomFeed$addContributor(contributor)
```

Arguments:

`contributor` object of class AtomContributor

Returns: `TRUE` if added, `FALSE` otherwise

Method `delContributor()`**:** Deletes contributor

Usage:

```
AtomFeed$delContributor(contributor)
```

Arguments:

`contributor` object of class AtomContributor

Returns: `TRUE` if deleted, `FALSE` otherwise

Method `setGenerator()`**:** Set generator

Usage:

```
AtomFeed$setGenerator(generator, type = "text")
```

Arguments:

`generator` generator

`type` type. Default is "text"

Method `setIcon()`**:** Set icon

Usage:

```
AtomFeed$setIcon(icon)
```

Arguments:

`icon` icon

Method `addCategory()`**:** Adds category

Usage:

```
AtomFeed$addCategory(value, term, scheme = NULL, label = NULL)
```

Arguments:

`value` value

`term` term

`scheme` scheme

`label` label

Returns: `TRUE` if added, `FALSE` otherwise

Method `delCategory()`**:** Deletes category

Usage:

```
AtomFeed$delCategory(value, term, scheme = NULL, label = NULL)
```

Arguments:

`value` value

`term` term

`scheme` scheme

`label` label

Returns: `TRUE` if deleted, `FALSE` otherwise

Method `addEntry()`**:** Adds an entry

Usage:

```
AtomFeed$addEntry(entry)
```

Arguments:

`entry` object of class AtomEntry

Returns: `TRUE` if added, `FALSE` otherwise

Method `delEntry()`**:** Deletes an entry

Usage:

```
AtomFeed$delEntry(entry)
```

Arguments:

`entry` object of class AtomEntry

Returns: `TRUE` if deleted, `FALSE` otherwise

Method `clone()`**:** The objects of this class are cloneable with this method.

Usage:

```
AtomFeed$clone(deep = FALSE)
```

Arguments:

`deep` Whether to make a deep clone.

Author(s)

Emmanuel Blondel <emmanuel.blondel1@gmail.com>

Examples

```
#encoding
atom <- AtomFeed$new()
atom$setId("my-atom-feed")
atom$setTitle("My Atom feed title")
atom$setSubtitle("MyAtom feed subtitle")
author1 <- AtomAuthor$new(
  name = "John Doe",
  uri = "http://www.atomxml.com/johndoe",
  email = "johndoe@atom4R.com"
)
atom$addAuthor(author1)
author2 <- AtomAuthor$new(
  name = "John Doe's sister",
  uri = "http://www.atomxml.com/johndoesister",
  email = "johndoesister@atom4R.com"
)
atom$addAuthor(author2)
contrib1 <- AtomContributor$new(
  name = "Contrib1",
  uri = "http://www.atomxml.com/contrib1",
  email = "contrib1@atom4R.com"
)
atom$addContributor(contrib1)
contrib2 <- AtomContributor$new(
  name = "Contrib2",
  uri = "http://www.atomxml.com/contrib2",
  email = "contrib2@atom4R.com"
```

```
)
atom$addContributor(contrib2)
atom$setIcon("https://via.placeholder.com/300x150.png/03f/fff?text=atom4R")
atom$setSelfLink("http://example.com/atom.feed")
atom$setAlternateLink("http://example.com/my-atom-feed")
atom$addCategory("draft", "dataset")
atom$addCategory("world", "spatial")
atom$addCategory("fisheries", "domain")
#add entry
entry <- AtomEntry$new()
entry$setId("my-atom-entry")
entry$setTitle("My Atom feed entry")
entry$setSummary("My Atom feed entry very comprehensive abstract")
author1 <- AtomAuthor$new(
  name = "John Doe",
  uri = "http://www.atomxml.com/johndoe",
  email = "johndoe@atom4R.com"
)
entry$addAuthor(author1)
author2 <- AtomAuthor$new(
  name = "John Doe's sister",
  uri = "http://www.atomxml.com/johndoesister",
  email = "johndoesister@atom4R.com"
)
entry$addAuthor(author2)
contrib1 <- AtomContributor$new(
  name = "Contrib1",
  uri = "http://www.atomxml.com/contrib1",
  email = "contrib1@atom4R.com"
)
entry$addContributor(contrib1)
contrib2 <- AtomContributor$new(
  name = "Contrib2",
  uri = "http://www.atomxml.com/contrib2",
  email = "contrib2@atom4R.com"
)
entry$addContributor(contrib2)
entry$addCategory("draft", "dataset")
entry$addCategory("world", "spatial")
entry$addCategory("fisheries", "domain")
atom$addEntry(entry)
xml <- atom$encode()
```

`AtomLink` *Atom Link class*

Description

This class models an atom Link

Format

R6Class object.

Details

AtomLink

Value

Object of R6Class for modelling an Atom Link

Super classes

atom4R::atom4RLogger -> atom4R::AtomAbstractObject -> AtomLink

Public fields

attrs attrs

Methods

Public methods:

- AtomLink$new()
- AtomLink$setRel()
- AtomLink$setType()
- AtomLink$setHref()
- AtomLink$setHreflang()
- AtomLink$setTitle()
- AtomLink$setLength()
- AtomLink$clone()

Method new(): Initializes an AtomLink

Usage:

```
AtomLink$new(
  xml = NULL,
  rel = NULL,
  type = NULL,
  href = NULL,
  hreflang = NULL,
  title = NULL,
  length = NULL
)
```

Arguments:

xml object of class XMLInternalNode-class from **XML**

rel rel

type type

`href` href
`hreflang` hreflang
`title` title
`length` length

Method `setRel()`: Set relation

Usage:

```
AtomLink$setRel(rel)
```

Arguments:

`rel` rel

Method `setType()`: Set type

Usage:

```
AtomLink$setType(type)
```

Arguments:

`type` type

Method `setHref()`: Set href

Usage:

```
AtomLink$setHref(href)
```

Arguments:

`href` href

Method `setHreflang()`: Set href lang

Usage:

```
AtomLink$setHreflang(hreflang)
```

Arguments:

`hreflang` hreflang

Method `setTitle()`: Set title

Usage:

```
AtomLink$setTitle(title)
```

Arguments:

`title` title

Method `setLength()`: Set length

Usage:

```
AtomLink$setLength(length)
```

Arguments:

`length` length

Method `clone()`: The objects of this class are cloneable with this method.

Usage:

```
AtomLink$clone(deep = FALSE)
```

Arguments:

`deep` Whether to make a deep clone.

Author(s)

Emmanuel Blondel <emmanuel.blondel1@gmail.com>

`AtomNamespace` *AtomNamespace*

Description

AtomNamespace

AtomNamespace

Format

`R6Class` object.

Value

Object of `R6Class` for modelling an Atom Namespace

Public fields

`id` id

`uri` uri

Methods

Public methods:

- `AtomNamespace$new()`
- `AtomNamespace$getDefinition()`
- `AtomNamespace$clone()`

Method `new()`**:** Initializes an AtomNamespace

Usage:

```
AtomNamespace$new(id, uri)
```

Arguments:

`id` id

`uri` uri

Method `getDefinition()`**:** Get definition

Usage:

```
AtomNamespace$getDefinition()
```

Returns: a named list defining the namespace

Method `clone()`**:** The objects of this class are cloneable with this method.

Usage:

```
AtomNamespace$clone(deep = FALSE)
```

Arguments:

`deep` Whether to make a deep clone.

Note

ISO class used internally by atom4R for specifying XML namespaces

Author(s)

Emmanuel Blondel <emmanuel.blondel1@gmail.com>

`AtomPerson` *Atom Person class*

Description

This class models an Atom Person

Format

`R6Class` object.

Details

AtomPerson

Value

Object of `R6Class` for modelling an Atom Person

Super classes

`atom4R::atom4RLogger` -> `atom4R::AtomAbstractObject` -> `AtomPerson`

Public fields

`name` name

`uri` uri

`email` email

Methods

Public methods:

- `AtomPerson$new()`
- `AtomPerson$setName()`
- `AtomPerson$setUri()`
- `AtomPerson$setEmail()`
- `AtomPerson$clone()`

Method `new()`**:** Initializes an AtomPerson

Usage:

```
AtomPerson$new(xml = NULL, name = NULL, uri = NULL, email = NULL)
```

Arguments:

`xml` object of class XMLInternalNode-class from **XML**

`name` name

`uri` uri

`email` email

Method `setName()`**:** Set name

Usage:

```
AtomPerson$setName(name)
```

Arguments:

`name` name

Method `setUri()`**:** Set URI

Usage:

```
AtomPerson$setUri(uri)
```

Arguments:

`uri` uri

Method `setEmail()`**:** Set email

Usage:

```
AtomPerson$setEmail(email)
```

Arguments:

`email` email

Method `clone()`**:** The objects of this class are cloneable with this method.

Usage:

```
AtomPerson$clone(deep = FALSE)
```

Arguments:

`deep` Whether to make a deep clone.

Note

Abstract class used internally for person-like classes

Author(s)

Emmanuel Blondel <emmanuel.blondel1@gmail.com>

AtomPubClient *AtomPubClient class*

Description

This class models an AtomPub service client

Format

R6Class object.

Details

AtomPubClient

Value

Object of R6Class for modelling an AtomPub client

Methods

`new(url, user, pwd, token, keyring_backend)` This method is to instantiate an AtomPub Client.

The `keyring_backend` can be set to use a different backend for storing the Atom pub user token with **keyring** (Default value is 'env').

The logger can be either NULL, "INFO" (with minimum logs), or "DEBUG" (for complete curl http calls logs)

`getUser()` Retrieves user (if any specified).

`getPwd()` Retrieves user password (if any user specified).

`getToken()` Retrieves user token.

`getServiceDocument()` Gets service document description. Unimplemented in abstract classes.

`listCollections(pretty)` Lists the available collections. Use `pretty` to return a "data.frame" insteaf of a list.

`getCollectionMembers(collectionId)` List members of a collection. Unimplemented in abstract classes.

Super class

`atom4R::atom4RLogger` -> `AtomPubClient`

Public fields

`service` service

Methods

Public methods:

Method `new()`**:** This method is to instantiate an Sword Client. By default the version is set to "2".

The `keyring_backend` can be set to use a different backend for storing the SWORD API user token with **keyring** (Default value is 'env').

The `logger` allows to specify the level of log (default is NULL), either "INFO" for **atom4R** logs or "DEBUG" for verbose HTTP client (curl) logs.

Usage:

```
AtomPubClient$new(
  url,
  user = NULL,
  pwd = NULL,
  token = NULL,
  logger = NULL,
  keyring_backend = "env"
)
```

Arguments:

`url` url

`user` user

`pwd` pwd

`token` token

`logger` logger

`keyring_backend` keyring backend. Default is 'env'

Method `getUser()`**:** Get user

Usage:

```
AtomPubClient$getUser()
```

Returns: object of class `character`

Method `getPwd()`**:** Get password

Usage:

```
AtomPubClient$getPwd()
```

Returns: object of class `character`

Method `getToken()`**:** Get token

Usage:

```
AtomPubClient$getToken()
```

Returns: object of class `character`

Method `getServiceDocument()`**:** Get service document

Usage:

```
AtomPubClient$getServiceDocument()
```

Arguments:

`force` force Force getting/refreshing of service document

Returns: object of class SwordServiceDocument

Method `listCollections()`**:** List collections

Usage:

```
AtomPubClient$listCollections(pretty = FALSE)
```

Arguments:

`pretty` pretty

Returns: a list of collections, or `data.frame`

Method `getCollectionMembers()`**:** Get collection members. Unimplemented abstract method at AtomPubClient level

Usage:

```
AtomPubClient$getCollectionMembers()
```

Method `clone()`**:** The objects of this class are cloneable with this method.

Usage:

```
AtomPubClient$clone(deep = FALSE)
```

Arguments:

`deep` Whether to make a deep clone.

Note

Abstract class used internally for AtomPub (Atom Publishing Protocol) clients

Author(s)

Emmanuel Blondel <emmanuel.blondel1@gmail.com>

DCAbstract *DCAbstract*

Description

This class models an DublinCore 'abstract' element

Format

R6Class object.

Value

Object of R6Class for modelling an Dublin Core 'abstract' element

Super classes

atom4R::atom4RLogger -> atom4R::AtomAbstractObject -> atom4R::DCElement -> atom4R::DCDescription -> DCAbstract

Methods

Public methods:

- DCAbstract$new()
- DCAbstract$clone()

Method `new()`**:** Initializes an object of class DCAbstract

Usage:

```
DCAbstract$new(xml = NULL, value = NULL)
```

Arguments:

`xml` object of class XMLInternalNode-class from **XML**

`value` value

Method `clone()`**:** The objects of this class are cloneable with this method.

Usage:

```
DCAbstract$clone(deep = FALSE)
```

Arguments:

`deep` Whether to make a deep clone.

References

Dublin Core Metadata Initiative. https://www.dublincore.org/specifications/dublin-core/dcmi-terms/terms/abstract

DCAccessRights *DCAccessRights*

Description

This class models an DublinCore 'accessRights' element

Format

R6Class object.

Value

Object of R6Class for modelling an Dublin Core 'accessRights' element

Super classes

atom4R::atom4RLogger -> atom4R::AtomAbstractObject -> atom4R::DCElement -> atom4R::DCRights -> DCAccessRights

Methods

Public methods:

- DCAccessRights$new()
- DCAccessRights$clone()

Method `new()`**:** Initializes an object of class DCAccessRights

Usage:

```
DCAccessRights$new(xml = NULL, value = NULL)
```

Arguments:

`xml` object of class XMLInternalNode-class from **XML**

`value` value

Method `clone()`**:** The objects of this class are cloneable with this method.

Usage:

```
DCAccessRights$clone(deep = FALSE)
```

Arguments:

`deep` Whether to make a deep clone.

References

Dublin Core Metadata Initiative. https://www.dublincore.org/specifications/dublin-core/dcmi-terms/terms/accessRights

DCAccrualMethod *DCAccrualMethod*

Description

This class models an DublinCore 'accrualMethod' element

Format

R6Class object.

Value

Object of R6Class for modelling an Dublin Core 'accrualMethod' element

Super classes

atom4R::atom4RLogger -> atom4R::AtomAbstractObject -> atom4R::DCElement -> DCAccrualMethod

Methods

Public methods:

- DCAccrualMethod$new()
- DCAccrualMethod$clone()

Method `new()`**:** Initializes an object of class DCAccrualMethod

Usage:

```
DCAccrualMethod$new(xml = NULL, value = NULL)
```

Arguments:

`xml` object of class XMLInternalNode-class from **XML**

`value` value

Method `clone()`**:** The objects of this class are cloneable with this method.

Usage:

```
DCAccrualMethod$clone(deep = FALSE)
```

Arguments:

`deep` Whether to make a deep clone.

References

Dublin Core Metadata Initiative. https://www.dublincore.org/specifications/dublin-core/dcmi-terms/terms/accrualMethod

DCAccrualPeriodicity *DCAccrualPeriodicity*

Description

This class models an DublinCore 'accrualPeriodicity' element

Format

R6Class object.

Value

Object of R6Class for modelling an Dublin Core 'accrualPeriodicity' element

Super classes

atom4R::atom4RLogger -> atom4R::AtomAbstractObject -> atom4R::DCElement -> DCAccrualPeriodicity

Methods

Public methods:

- DCAccrualPeriodicity$new()
- DCAccrualPeriodicity$clone()

Method `new()`**:** Initializes an object of class DCAccrualPeriodicity

Usage:

```
DCAccrualPeriodicity$new(xml = NULL, value = NULL)
```

Arguments:

`xml` object of class XMLInternalNode-class from **XML**

`value` value

Method `clone()`**:** The objects of this class are cloneable with this method.

Usage:

```
DCAccrualPeriodicity$clone(deep = FALSE)
```

Arguments:

`deep` Whether to make a deep clone.

References

Dublin Core Metadata Initiative. https://www.dublincore.org/specifications/dublin-core/dcmi-terms/terms/accrualPeriodicity

DCAccrualPolicy *DCAccrualPolicy*

Description

This class models an DublinCore 'accrualPolicy' element

Format

R6Class object.

Value

Object of R6Class for modelling an Dublin Core 'accrualPolicy' element

Super classes

atom4R::atom4RLogger -> atom4R::AtomAbstractObject -> atom4R::DCElement -> DCAccrualPolicy

Methods

Public methods:

- DCAccrualPolicy$new()
- DCAccrualPolicy$clone()

Method `new()`**:** Initializes an object of class DCAccrualPolicy

Usage:

```
DCAccrualPolicy$new(xml = NULL, value = NULL)
```

Arguments:

`xml` object of class XMLInternalNode-class from **XML**

`value` value

Method `clone()`**:** The objects of this class are cloneable with this method.

Usage:

```
DCAccrualPolicy$clone(deep = FALSE)
```

Arguments:

`deep` Whether to make a deep clone.

References

Dublin Core Metadata Initiative. https://www.dublincore.org/specifications/dublin-core/dcmi-terms/terms/accrualPolicy

DCAlternative *DCAlternative*

Description

This class models an DublinCore 'alternative' element

Format

R6Class object.

Value

Object of R6Class for modelling an Dublin Core 'alternative' element

Super classes

atom4R::atom4RLogger -> atom4R::AtomAbstractObject -> atom4R::DCElement -> atom4R::DCTitle -> DCAlternative

Methods

Public methods:

- DCAlternative$new()
- DCAlternative$clone()

Method `new()`**:** Initializes an object of class DCAlternative

Usage:

```
DCAlternative$new(xml = NULL, value = NULL)
```

Arguments:

`xml` object of class XMLInternalNode-class from **XML**

`value` value

Method `clone()`**:** The objects of this class are cloneable with this method.

Usage:

```
DCAlternative$clone(deep = FALSE)
```

Arguments:

`deep` Whether to make a deep clone.

References

Dublin Core Metadata Initiative. https://www.dublincore.org/specifications/dublin-core/dcmi-terms/terms/alternative

DCAudience *DCAudience*

Description

This class models an DublinCore 'audience' element

Format

R6Class object.

Value

Object of R6Class for modelling an Dublin Core 'audience' element

Super classes

atom4R::atom4RLogger -> atom4R::AtomAbstractObject -> atom4R::DCElement -> DCAudience

Methods

Public methods:

- DCAudience$new()
- DCAudience$clone()

Method `new()`**:** Initializes an object of class DCAudience

Usage:

```
DCAudience$new(xml = NULL, term = NULL, value = NULL)
```

Arguments:

`xml` object of class XMLInternalNode-class from **XML**

`term` term

`value` value

Method `clone()`**:** The objects of this class are cloneable with this method.

Usage:

```
DCAudience$clone(deep = FALSE)
```

Arguments:

`deep` Whether to make a deep clone.

References

Dublin Core Metadata Initiative. https://www.dublincore.org/specifications/dublin-core/dcmi-terms/terms/audience

DCAvailable *DCAvailable*

Description

This class models an DublinCore 'available' element

Format

R6Class object.

Value

Object of R6Class for modelling an Dublin Core 'available' element

Super classes

atom4R::atom4RLogger -> atom4R::AtomAbstractObject -> atom4R::DCElement -> atom4R::DCDate -> DCAvailable

Methods

Public methods:

- DCAvailable$new()
- DCAvailable$clone()

Method `new()`**:** Initializes an object of class DCAvailable

Usage:

```
DCAvailable$new(xml = NULL, value = NULL)
```

Arguments:

`xml` object of class XMLInternalNode-class from **XML**

`value` value

Method `clone()`**:** The objects of this class are cloneable with this method.

Usage:

```
DCAvailable$clone(deep = FALSE)
```

Arguments:

`deep` Whether to make a deep clone.

References

Dublin Core Metadata Initiative. https://www.dublincore.org/specifications/dublin-core/dcmi-terms/terms/available

DCBibliographicCitation *DCBibliographicCitation*

Description

This class models an DublinCore 'bibliographicCitation' element

Format

R6Class object.

Value

Object of R6Class for modelling an Dublin Core 'bibliographicCitation' element

Super classes

atom4R::atom4RLogger -> atom4R::AtomAbstractObject -> atom4R::DCElement -> atom4R::DCIdentifier -> DCBibliographicCitation

Methods

Public methods:

- DCBibliographicCitation$new()
- DCBibliographicCitation$clone()

Method `new()`**:** Initializes an object of class DCBibliographicCitation

Usage:

```
DCBibliographicCitation$new(xml = NULL, value = NULL)
```

Arguments:

`xml` object of class XMLInternalNode-class from **XML**

`value` value

Method `clone()`**:** The objects of this class are cloneable with this method.

Usage:

```
DCBibliographicCitation$clone(deep = FALSE)
```

Arguments:

`deep` Whether to make a deep clone.

References

Dublin Core Metadata Initiative. https://www.dublincore.org/specifications/dublin-core/dcmi-terms/terms/bibliographicCitat

DCConformsTo *DCConformsTo*

Description

This class models an DublinCore 'conformsTo' element

Format

R6Class object.

Value

Object of R6Class for modelling an Dublin Core 'conformsTo' element

Super classes

atom4R::atom4RLogger -> atom4R::AtomAbstractObject -> atom4R::DCElement -> atom4R::DCRelation -> DCConformsTo

Methods

Public methods:

- DCConformsTo$new()
- DCConformsTo$clone()

Method `new()`**:** Initializes an object of class DCConformsTo

Usage:

```
DCConformsTo$new(xml = NULL, value = NULL)
```

Arguments:

`xml` object of class XMLInternalNode-class from **XML**

`value` value

Method `clone()`**:** The objects of this class are cloneable with this method.

Usage:

```
DCConformsTo$clone(deep = FALSE)
```

Arguments:

`deep` Whether to make a deep clone.

References

Dublin Core Metadata Initiative. https://www.dublincore.org/specifications/dublin-core/dcmi-terms/terms/conformsTo

DCContributor *DCContributor*

Description

This class models an DublinCore 'contributor' element

Format

R6Class object.

Value

Object of R6Class for modelling an Dublin Core 'contributor' element

Super classes

atom4R::atom4RLogger -> atom4R::AtomAbstractObject -> atom4R::DCElement -> DCContributor

Methods

Public methods:

- DCContributor$new()
- DCContributor$clone()

Method `new()`**:** This method is used to create an Dublin core 'contributor' element. Use dc to TRUE to use Dublin core namespace instead of DC terms.

Usage:

```
DCContributor$new(xml = NULL, value = NULL, dc = FALSE)
```

Arguments:

`xml` object of class XMLInternalNode-class from **XML**

`value` value

`dc` use DC namespace?

Method `clone()`**:** The objects of this class are cloneable with this method.

Usage:

```
DCContributor$clone(deep = FALSE)
```

Arguments:

`deep` Whether to make a deep clone.

References

Dublin Core Metadata Initiative. https://www.dublincore.org/specifications/dublin-core/dcmi-terms/terms/contributor

DCCoverage *DCCoverage*

Description

This class models an DublinCore Terms 'coverage' element

Format

R6Class object.

Value

Object of R6Class for modelling an Dublin Core Terms 'coverage' element

Super classes

atom4R::atom4RLogger -> atom4R::AtomAbstractObject -> atom4R::DCElement -> DCCoverage

Methods

Public methods:

- DCCoverage$new()
- DCCoverage$clone()

Method `new()`**:** This method is used to create an Dublin core 'coverage' element. Use `dc` to `TRUE` to use Dublin core namespace instead of DC terms.

Usage:

```
DCCoverage$new(xml = NULL, term = NULL, value = NULL, dc = FALSE)
```

Arguments:

`xml` object of class XMLInternalNode-class from **XML**

`term` term

`value` value

`dc` use DC namespace?

Method `clone()`**:** The objects of this class are cloneable with this method.

Usage:

```
DCCoverage$clone(deep = FALSE)
```

Arguments:

`deep` Whether to make a deep clone.

References

Dublin Core Metadata Initiative. https://www.dublincore.org/specifications/dublin-core/dcmi-terms/terms/coverage

DCCreated *DCCreated*

Description

This class models an DublinCore Terms 'date' element

Format

R6Class object.

Value

Object of R6Class for modelling an Dublin Core Terms 'date' element

Super classes

atom4R::atom4RLogger -> atom4R::AtomAbstractObject -> atom4R::DCElement -> atom4R::DCDate -> DCCreated

Methods

Public methods:

- DCCreated$new()
- DCCreated$clone()

Method `new()`**:** Initializes an object of class DCCreated

Usage:

```
DCCreated$new(xml = NULL, value = NULL)
```

Arguments:

`xml` object of class XMLInternalNode-class from **XML**

`value` value

Method `clone()`**:** The objects of this class are cloneable with this method.

Usage:

```
DCCreated$clone(deep = FALSE)
```

Arguments:

`deep` Whether to make a deep clone.

References

Dublin Core Metadata Initiative. https://www.dublincore.org/specifications/dublin-core/dcmi-terms/terms/created

DCCreator *DCCreator*

Description

This class models an DublinCore 'creator' element

Format

R6Class object.

Value

Object of R6Class for modelling an Dublin Core 'creator' element

Super classes

atom4R::atom4RLogger -> atom4R::AtomAbstractObject -> atom4R::DCElement -> DCCreator

Methods

Public methods:

- DCCreator$new()
- DCCreator$clone()

Method `new()`**:** This method is used to create an Dublin core 'creator' element. Use dc to TRUE to use Dublin core namespace instead of DC terms.

Usage:

```
DCCreator$new(xml = NULL, value = NULL, dc = FALSE)
```

Arguments:

`xml` object of class XMLInternalNode-class from **XML**

`value` value

`dc` use DC namespace?

Method `clone()`**:** The objects of this class are cloneable with this method.

Usage:

```
DCCreator$clone(deep = FALSE)
```

Arguments:

`deep` Whether to make a deep clone.

References

Dublin Core Metadata Initiative. https://www.dublincore.org/specifications/dublin-core/dcmi-terms/terms/creator

DCDate *DCDate*

Description

This class models an DublinCore 'date' element

Format

R6Class object.

Value

Object of R6Class for modelling an Dublin Core 'date' element

Super classes

atom4R::atom4RLogger -> atom4R::AtomAbstractObject -> atom4R::DCElement -> DCDate

Methods

Public methods:

- DCDate$new()
- DCDate$clone()

Method `new()`**:** This method is used to create an Dublin core 'date' element. Use `dc` to `TRUE` to use Dublin core namespace instead of DC terms.

Usage:

```
DCDate$new(xml = NULL, term = NULL, value = NULL, dc = FALSE)
```

Arguments:

`xml` object of class XMLInternalNode-class from **XML**

`term` term

`value` value

`dc` use DC namespace?

Method `clone()`**:** The objects of this class are cloneable with this method.

Usage:

```
DCDate$clone(deep = FALSE)
```

Arguments:

`deep` Whether to make a deep clone.

References

Dublin Core Metadata Initiative. https://www.dublincore.org/specifications/dublin-core/dcmi-terms/terms/date

DCDateAccepted *DCDateAccepted*

Description

This class models an DublinCore 'dateAccepted' element

Format

R6Class object.

Value

Object of R6Class for modelling an Dublin Core 'dateAccepted' element

Super classes

atom4R::atom4RLogger -> atom4R::AtomAbstractObject -> atom4R::DCElement -> atom4R::DCDate -> DCDateAccepted

Methods

Public methods:

- DCDateAccepted$new()
- DCDateAccepted$clone()

Method `new()`**:** Initializes an object of class DCDateAccepted

Usage:

```
DCDateAccepted$new(xml = NULL, value = NULL)
```

Arguments:

`xml` object of class XMLInternalNode-class from **XML**

`value` value

Method `clone()`**:** The objects of this class are cloneable with this method.

Usage:

```
DCDateAccepted$clone(deep = FALSE)
```

Arguments:

`deep` Whether to make a deep clone.

References

Dublin Core Metadata Initiative. https://www.dublincore.org/specifications/dublin-core/dcmi-terms/terms/dateAccepted

DCDateCopyrighted *DCDateCopyrighted*

Description

This class models an DublinCore 'dateCopyrighted' element

Format

R6Class object.

Value

Object of R6Class for modelling an Dublin Core 'dateCopyrighted' element

Super classes

atom4R::atom4RLogger -> atom4R::AtomAbstractObject -> atom4R::DCElement -> atom4R::DCDate -> DCDateCopyrighted

Methods

Public methods:

- DCDateCopyrighted$new()
- DCDateCopyrighted$clone()

Method `new()`**:** Initializes an object of class DCDateCopyrighted

Usage:

```
DCDateCopyrighted$new(xml = NULL, value = NULL)
```

Arguments:

`xml` object of class XMLInternalNode-class from **XML**

`value` value

Method `clone()`**:** The objects of this class are cloneable with this method.

Usage:

```
DCDateCopyrighted$clone(deep = FALSE)
```

Arguments:

`deep` Whether to make a deep clone.

References

Dublin Core Metadata Initiative. https://www.dublincore.org/specifications/dublin-core/dcmi-terms/terms/dateCopyrighted

DCDateSubmitted *DCDateSubmitted*

Description

This class models an DublinCore 'dateSubmitted' element

Format

R6Class object.

Value

Object of R6Class for modelling an Dublin Core 'dateSubmitted' element

Super classes

atom4R::atom4RLogger -> atom4R::AtomAbstractObject -> atom4R::DCElement -> atom4R::DCDate -> DCDateSubmitted

Methods

Public methods:

- DCDateSubmitted$new()
- DCDateSubmitted$clone()

Method `new()`**:** Initializes an object of class DCDateSubmitted

Usage:

```
DCDateSubmitted$new(xml = NULL, value = NULL)
```

Arguments:

`xml` object of class XMLInternalNode-class from **XML**

`value` value

Method `clone()`**:** The objects of this class are cloneable with this method.

Usage:

```
DCDateSubmitted$clone(deep = FALSE)
```

Arguments:

`deep` Whether to make a deep clone.

References

Dublin Core Metadata Initiative. https://www.dublincore.org/specifications/dublin-core/dcmi-terms/terms/dateSubmitted

DCDescription *DCDescription*

Description

This class models an DublinCore 'description' element

Format

R6Class object.

Value

Object of R6Class for modelling an Dublin Core 'description' element

Super classes

atom4R::atom4RLogger -> atom4R::AtomAbstractObject -> atom4R::DCElement -> DCDescription

Methods

Public methods:

- DCDescription$new()
- DCDescription$clone()

Method `new()`**:** This method is used to create an Dublin core 'description' element. Use dc to TRUE to use Dublin core namespace instead of DC terms.

Usage:

```
DCDescription$new(xml = NULL, term = NULL, value = NULL, dc = FALSE)
```

Arguments:

`xml` object of class XMLInternalNode-class from **XML**

`term` term

`value` value

`dc` use DC namespace?

Method `clone()`**:** The objects of this class are cloneable with this method.

Usage:

```
DCDescription$clone(deep = FALSE)
```

Arguments:

`deep` Whether to make a deep clone.

References

Dublin Core Metadata Initiative. https://www.dublincore.org/specifications/dublin-core/dcmi-terms/terms/description

DCEducationalLevel *DCEducationalLevel*

Description

This class models an DublinCore 'educationalLevel' element

Format

R6Class object.

Value

Object of R6Class for modelling an Dublin Core 'educationalLevel' element

Super classes

atom4R::atom4RLogger -> atom4R::AtomAbstractObject -> atom4R::DCElement -> atom4R::DCAudience -> DCEducationalLevel

Methods

Public methods:

- DCEducationalLevel$new()
- DCEducationalLevel$clone()

Method `new()`**:** Initializes an object of class DCEducationalLevel

Usage:

```
DCEducationalLevel$new(xml = NULL, value = NULL)
```

Arguments:

`xml` object of class XMLInternalNode-class from **XML**

`value` value

Method `clone()`**:** The objects of this class are cloneable with this method.

Usage:

```
DCEducationalLevel$clone(deep = FALSE)
```

Arguments:

`deep` Whether to make a deep clone.

References

Dublin Core Metadata Initiative. https://www.dublincore.org/specifications/dublin-core/dcmi-terms/terms/educationalLevel

DCElement *DublinCore element class*

Description

This class models an DublinCore element

Format

R6Class object.

Details

DCElement

Value

Object of R6Class for modelling an Dublin Core element

Super classes

atom4R::atom4RLogger -> atom4R::AtomAbstractObject -> DCElement

Public fields

value value

Methods

Public methods:

- DCElement$new()
- DCElement$clone()

Method new(): Initializes an abstract DCElement

Usage:

```
DCElement$new(
  xml = NULL,
  term = NULL,
  value = NULL,
  vocabulary = NULL,
  extended = FALSE
)
```

Arguments:

xml object of class XMLInternalNode-class from **XML**

term term

value value

`vocabulary` vocabulary

`extended` extended

Method `clone()`**:** The objects of this class are cloneable with this method.

Usage:

```
DCElement$clone(deep = FALSE)
```

Arguments:

`deep` Whether to make a deep clone.

Note

Class used internally by **atom4R**

Author(s)

Emmanuel Blondel <emmanuel.blondel1@gmail.com>

`DCEntry` *Dublin Core Entry class*

Description

This class models an Dublin Core Entry

Format

`R6Class` object.

Details

DCEntry

Value

Object of `R6Class` for modelling an Dublin Core Entry

Super classes

`atom4R::atom4RLogger` -> `atom4R::AtomAbstractObject` -> `atom4R::AtomEntry` -> `DCEntry`

Methods

Public methods:

- DCEntry$new()
- DCEntry$addDCElement()
- DCEntry$delDCElement()
- DCEntry$setDCElements()
- DCEntry$getDCElements()
- DCEntry$getDCElementByValue()
- DCEntry$addDCAbstract()
- DCEntry$delDCAbstract()
- DCEntry$setDCAbstracts()
- DCEntry$getDCAbstracts()
- DCEntry$addDCAccessRights()
- DCEntry$delDCAccessRights()
- DCEntry$setDCAccessRights()
- DCEntry$getDCAccessRights()
- DCEntry$addDCAccrualMethod()
- DCEntry$delDCAccrualMethod()
- DCEntry$setDCAccrualMethods()
- DCEntry$getDCAccrualMethods()
- DCEntry$addDCAccrualPeriodicity()
- DCEntry$delDCAccrualPeriodicity()
- DCEntry$setDCAccrualPeriodicities()
- DCEntry$getDCAccrualPeriodicities()
- DCEntry$addDCAccrualPolicy()
- DCEntry$delDCAccrualPolicy()
- DCEntry$setDCAccrualPolicies()
- DCEntry$getDCAccrualPolicies()
- DCEntry$addDCAlternative()
- DCEntry$delDCAlternative()
- DCEntry$setDCAlternatives()
- DCEntry$getDCAlternatives()
- DCEntry$addDCAudience()
- DCEntry$delDCAudience()
- DCEntry$setDCAudiences()
- DCEntry$getDCAudiences()
- DCEntry$addDCAvailable()
- DCEntry$delDCAvailable()
- DCEntry$setDCAvailables()
- DCEntry$getDCAvailables()
- DCEntry$addDCBibliographicCitation()
- DCEntry$delDCBibliographicCitation()

- DCEntry$setDCBibliographicCitations()
- DCEntry$getDCBibliographicCitations()
- DCEntry$addDCConformsTo()
- DCEntry$delDCConformsTo()
- DCEntry$setDCConformsTo()
- DCEntry$getDCConformsTo()
- DCEntry$addDCContributor()
- DCEntry$delDCContributor()
- DCEntry$setDCContributors()
- DCEntry$getDCContributors()
- DCEntry$addDCCoverage()
- DCEntry$delDCCoverage()
- DCEntry$setDCCoverages()
- DCEntry$getDCCoverages()
- DCEntry$addDCCreated()
- DCEntry$delDCCreated()
- DCEntry$addDCCreator()
- DCEntry$delDCCreator()
- DCEntry$setDCCreators()
- DCEntry$getDCCreators()
- DCEntry$addDCDate()
- DCEntry$delDCDate()
- DCEntry$setDCDates()
- DCEntry$getDCDates()
- DCEntry$addDCDateAccepted()
- DCEntry$delDCDateAccepted()
- DCEntry$addDCDateCopyrighted()
- DCEntry$delDCDateCopyrighted()
- DCEntry$addDCDateSubmitted()
- DCEntry$delDCDateSubmitted()
- DCEntry$addDCDescription()
- DCEntry$delDCDescription()
- DCEntry$setDCDescriptions()
- DCEntry$getDCDescriptions()
- DCEntry$addDCEducationalLevel()
- DCEntry$delDCEducationalLevel()
- DCEntry$setDCEducationalLevels()
- DCEntry$getDCEducationalLevels()
- DCEntry$addDCExtent()
- DCEntry$delDCExtent()
- DCEntry$setDCExtents()
- DCEntry$getDCExtents()

- DCEntry$addDCFormat()
- DCEntry$delDCFormat()
- DCEntry$setDCFormats()
- DCEntry$getDCFormats()
- DCEntry$addDCHasPart()
- DCEntry$delDCHasPart()
- DCEntry$setDCHasParts()
- DCEntry$getDCHasParts()
- DCEntry$addDCHasVersion()
- DCEntry$delDCHasVersion()
- DCEntry$setDCHasVersions()
- DCEntry$getDCHasVersions()
- DCEntry$addDCIdentifier()
- DCEntry$delDCIdentifier()
- DCEntry$setDCIdentifiers()
- DCEntry$getDCIdentifiers()
- DCEntry$addDCInstructionalMethod()
- DCEntry$delDCInstructionalMethod()
- DCEntry$setDCInstructionalMethods()
- DCEntry$getDCInstructionalMethods()
- DCEntry$addDCIsPartOf()
- DCEntry$delDCIsPartOf()
- DCEntry$setDCIsPartOf()
- DCEntry$getDCIsPartOfs()
- DCEntry$addDCIsReferencedBy()
- DCEntry$delDCIsReferencedBy()
- DCEntry$setDCIsReferencedBys()
- DCEntry$getDCIsReferencedBys()
- DCEntry$addDCIsReplacedBy()
- DCEntry$delDCIsReplacedBy()
- DCEntry$setDCIsReplacedBys()
- DCEntry$getDCIsReplacedBys()
- DCEntry$addDCIsRequiredBy()
- DCEntry$delDCIsRequiredBy()
- DCEntry$setDCIsRequiredBys()
- DCEntry$getDCIsRequiredBys()
- DCEntry$addDCIsVersionOf()
- DCEntry$delDCIsVersionOf()
- DCEntry$setDCIsVersionOfs()
- DCEntry$getDCIsVersionOfs()
- DCEntry$addDCIssued()
- DCEntry$delDCIssued()

- DCEntry$addDCLanguage()
- DCEntry$delDCLanguage()
- DCEntry$setDCLanguages()
- DCEntry$getDCLanguages()
- DCEntry$addDCLicense()
- DCEntry$delDCLicense()
- DCEntry$setDCLicenses()
- DCEntry$getDCLicenses()
- DCEntry$addDCMediator()
- DCEntry$delDCMediator()
- DCEntry$setDCMediators()
- DCEntry$getDCMediators()
- DCEntry$addDCMedium()
- DCEntry$delDCMedium()
- DCEntry$setDCMediums()
- DCEntry$getDCMediums()
- DCEntry$addDCModified()
- DCEntry$delDCModified()
- DCEntry$addDCProvenance()
- DCEntry$delDCProvenance()
- DCEntry$setDCProvenances()
- DCEntry$getDCProvenances()
- DCEntry$addDCPublisher()
- DCEntry$delDCPublisher()
- DCEntry$setDCPublishers()
- DCEntry$getDCPublishers()
- DCEntry$addDCReferences()
- DCEntry$delDCReferences()
- DCEntry$setDCReferences()
- DCEntry$getDCReferences()
- DCEntry$addDCRelation()
- DCEntry$delDCRelation()
- DCEntry$setDCRelations()
- DCEntry$getDCRelations()
- DCEntry$addDCReplaces()
- DCEntry$delDCReplaces()
- DCEntry$setDCReplaces()
- DCEntry$getDCReplaces()
- DCEntry$addDCRequires()
- DCEntry$delDCRequires()
- DCEntry$setDCRequires()
- DCEntry$getDCRequires()

- DCEntry$addDCRights()
- DCEntry$delDCRights()
- DCEntry$setDCRights()
- DCEntry$getDCRights()
- DCEntry$addDCRightsHolder()
- DCEntry$delDCRightsHolder()
- DCEntry$setDCRightsHolders()
- DCEntry$getDCRightsHolders()
- DCEntry$addDCSource()
- DCEntry$delDCSource()
- DCEntry$setDCSources()
- DCEntry$getDCSources()
- DCEntry$addDCSubject()
- DCEntry$delDCSubject()
- DCEntry$setDCSubjects()
- DCEntry$getDCSubjects()
- DCEntry$addDCTableOfContents()
- DCEntry$delDCTableOfContents()
- DCEntry$setDCTablesOfContents()
- DCEntry$getDCTablesOfContent()
- DCEntry$addDCTemporal()
- DCEntry$delDCTemporal()
- DCEntry$setDCTemporals()
- DCEntry$getDCTemporals()
- DCEntry$addDCTitle()
- DCEntry$delDCTitle()
- DCEntry$setDCTitles()
- DCEntry$getDCTitles()
- DCEntry$addDCType()
- DCEntry$delDCType()
- DCEntry$setDCTypes()
- DCEntry$getDCTypes()
- DCEntry$clone()

Method `new()`**:** Initializes an object of class DCEntry

Usage:

```
DCEntry$new(xml = NULL)
```

Arguments:

`xml` object of class XMLInternalNode-class from **XML**

Method `addDCElement()`**:** Adds a Dublin Core element

Usage:

```
DCEntry$addDCElement(term, value, extended = FALSE)
```

Arguments:

`term` term

`value` value

`extended` extended. Default is `FALSE`

Returns: `TRUE` if added, `FALSE` otherwise

Method `delDCElement()`**:** Deletes a Dublin Core element

Usage:

```
DCEntry$delDCElement(term, value)
```

Arguments:

`term` term

`value` value

Returns: `TRUE` if deleted, `FALSE` otherwise

Method `setDCElements()`**:** Set a list of DC elements

Usage:

```
DCEntry$setDCElements(term, values)
```

Arguments:

`term` term

`values` vector of values

Method `getDCElements()`**:** Get a list of DC elements

Usage:

```
DCEntry$getDCElements(term)
```

Arguments:

`term` term

Returns: a list of objects extending DCElement

Method `getDCElementByValue()`**:** Get a DC element by value

Usage:

```
DCEntry$getDCElementByValue(term, value)
```

Arguments:

`term` term

`value` value

Method `addDCAbstract()`**:** Adds DC abstract

Usage:

```
DCEntry$addDCAbstract(abstract)
```

Arguments:

`abstract` object of class DCAbstract or vector of class character and length 1

Returns: TRUE if added, FALSE otherwise

Method `delDCAbstract()`**:** Deletes DC abstract

Usage:

```
DCEntry$delDCAbstract(abstract)
```

Arguments:

`abstract` object of class DCAbstract or vector of class character and length 1

Method `setDCAbstracts()`**:** Set DC abstracts

Usage:

```
DCEntry$setDCAbstracts(abstracts)
```

Arguments:

`abstracts` abstracts, vector of class character

Method `getDCAbstracts()`**:** Get DC abstracts

Usage:

```
DCEntry$getDCAbstracts()
```

Returns: a list of objects of class DCAbstract

Method `addDCAccessRights()`**:** Adds DC access rights

Usage:

```
DCEntry$addDCAccessRights(accessRights)
```

Arguments:

`accessRights` object of class DCAccessRights or vector of class character and length 1

Returns: TRUE if added, FALSE otherwise

Method `delDCAccessRights()`**:** Deletes DC access rights

Usage:

```
DCEntry$delDCAccessRights(accessRights)
```

Arguments:

`accessRights` object of class DCAccessRights or vector of class character and length 1

Method `setDCAccessRights()`**:** Set access rights

Usage:

```
DCEntry$setDCAccessRights(accessRights)
```

Arguments:

`accessRights` vector of class character

Method `getDCAccessRights()`**:** Get DC access rights

Usage:

```
DCEntry$getDCAccessRights()
```

Returns: a list of objects of class DCAccessRights

Method `addDCAccrualMethod()`**:** Adds DC accrual method

Usage:

```
DCEntry$addDCAccrualMethod(accrualMethod)
```

Arguments:

`accrualMethod` object of class DCAccrualMethod or vector of class character and length 1

Returns: `TRUE` if added, `FALSE` otherwise

Method `delDCAccrualMethod()`**:** Deletes DC accrual method

Usage:

```
DCEntry$delDCAccrualMethod(accrualMethod)
```

Arguments:

`accrualMethod` object of class DCAccrualMethod or vector of class character and length 1

Returns: `TRUE` if deleted, `FALSE` otherwise

Method `setDCAccrualMethods()`**:** Set DC accrual method

Usage:

```
DCEntry$setDCAccrualMethods(accrualMethods)
```

Arguments:

`accrualMethods` vector of class character

Method `getDCAccrualMethods()`**:** Get DC accrual method

Usage:

```
DCEntry$getDCAccrualMethods()
```

Returns: a list of objects of class DCAccrualMethod

Method `addDCAccrualPeriodicity()`**:** Adds DC accrual periodicity

Usage:

```
DCEntry$addDCAccrualPeriodicity(accrualPeriodicity)
```

Arguments:

`accrualPeriodicity` object of class DCAccrualPeriodicity or vector of class character and length 1

Returns: `TRUE` if added, `FALSE` otherwise

Method `delDCAccrualPeriodicity()`**:** Deletes DC accrual periodicity

Usage:

```
DCEntry$delDCAccrualPeriodicity(accrualPeriodicity)
```

Arguments:

`accrualPeriodicity` object of class DCAccrualPeriodicity or vector of class character and length 1

Returns: `TRUE` if deleted, `FALSE` otherwise

Method `setDCAccrualPeriodicities()`**:** Set DC accrual periodicities

Usage:

```
DCEntry$setDCAccrualPeriodicities(accrualPeriodicities)
```

Arguments:

`accrualPeriodicities` vector of class character

Method `getDCAccrualPeriodicities()`**:** Get DC accrual periodicities

Usage:

```
DCEntry$getDCAccrualPeriodicities()
```

Returns: a list of objects of class DCAccrualPeriodicity

Method `addDCAccrualPolicy()`**:** Adds DC accrual policy

Usage:

```
DCEntry$addDCAccrualPolicy(accrualPolicy)
```

Arguments:

`accrualPolicy` object of class DCAccrualPolicy or vector of class character and length 1

Returns: `TRUE` if added, `FALSE` otherwise

Method `delDCAccrualPolicy()`**:** Deletes DC accrual policy

Usage:

```
DCEntry$delDCAccrualPolicy(accrualPolicy)
```

Arguments:

`accrualPolicy` object of class DCAccrualPolicy or vector of class character and length 1

Returns: `TRUE` if deleted, `FALSE` otherwise

Method `setDCAccrualPolicies()`**:** Set DC accrual policies

Usage:

```
DCEntry$setDCAccrualPolicies(accrualPolicies)
```

Arguments:

`accrualPolicies` vector of class character

Method `getDCAccrualPolicies()`**:** Get DC accrual policies

Usage:

```
DCEntry$getDCAccrualPolicies()
```

Returns: a list of objects of class DCAccrualPolicy

Method `addDCAlternative()`**:** Adds DC alternative

Usage:

```
DCEntry$addDCAlternative(alternative)
```

Arguments:

`alternative` object of class DCAlternative or vector of class character and length 1

Returns: `TRUE` if added, `FALSE` otherwise

Method `delDCAlternative()`**:** Deletes DC alternative

Usage:

```
DCEntry$delDCAlternative(alternative)
```

Arguments:

`alternative` object of class DCAlternative or vector of class character and length 1

Returns: `TRUE` if deleted, `FALSE` otherwise

Method `setDCAlternatives()`**:** Set DC alternatives

Usage:

```
DCEntry$setDCAlternatives(alternatives)
```

Arguments:

`alternatives` vector of class character

Method `getDCAlternatives()`**:** Get DC alternatives

Usage:

```
DCEntry$getDCAlternatives()
```

Returns: a list of objects of class DCAlternative

Method `addDCAudience()`**:** Adds DC audience

Usage:

```
DCEntry$addDCAudience(audience)
```

Arguments:

`audience` object of class DCAudience or vector of class character and length 1

Returns: `TRUE` if added, `FALSE` otherwise

Method `delDCAudience()`**:** Deletes DC audience

Usage:

```
DCEntry$delDCAudience(audience)
```

Arguments:

`audience` object of class DCAudience or vector of class character and length 1

Returns: `TRUE` if deleted, `FALSE` otherwise

Method `setDCAudiences()`**:** Set DC audiences

Usage:

```
DCEntry$setDCAudiences(audiences)
```

Arguments:

`audiences` vector of class character

Method `getDCAudiences()`**:** Get DC audiences

Usage:

```
DCEntry$getDCAudiences()
```

Returns: a list of objects of class DCAudience

Method `addDCAvailable()`**:** Adds DC available

Usage:

```
DCEntry$addDCAvailable(available)
```

Arguments:

`available` object of class DCAvailable or vector of class Date,POSIXt or character and length 1

Returns: `TRUE` if added, `FALSE` otherwise

Method `delDCAvailable()`**:** Deletes DC available

Usage:

```
DCEntry$delDCAvailable(available)
```

Arguments:

`available` object of class DCAvailable or vector of class Date,POSIXt or character and length 1

Returns: `TRUE` if deleted, `FALSE` otherwise

Method `setDCAvailables()`**:** Set DC availables

Usage:

```
DCEntry$setDCAvailables(availables)
```

Arguments:

`availables` vector of class character

Method `getDCAvailables()`**:** Get DC availables

Usage:

```
DCEntry$getDCAvailables()
```

Returns: a list of objects of class DCAvailable

Method `addDCBibliographicCitation()`**:** Adds DC bibliographic citation

Usage:

```
DCEntry$addDCBibliographicCitation(bibliographicCitation)
```

Arguments:

`bibliographicCitation` object of class DCBibliographicCitation or vector of class character and length 1

Returns: `TRUE` if added, `FALSE` otherwise

Method `delDCBibliographicCitation()`**:** Deletes DC bibliographic citation

Usage:

```
DCEntry$delDCBibliographicCitation(bibliographicCitation)
```

Arguments:

`bibliographicCitation` object of class DCBibliographicCitation or vector of class character and length 1

Returns: `TRUE` if deleted, `FALSE` otherwise

Method `setDCBibliographicCitations()`: Set bibliographic citations

Usage:

```
DCEntry$setDCBibliographicCitations(bibliographicCitations)
```

Arguments:

`bibliographicCitations` vector of class character

Method `getDCBibliographicCitations()`: Get bibliographic citations

Usage:

```
DCEntry$getDCBibliographicCitations()
```

Returns: the list of objects of class DCBibliographicCitation

Method `addDCConformsTo()`: Adds DC conforms to

Usage:

```
DCEntry$addDCConformsTo(conformsTo)
```

Arguments:

`conformsTo` object of class DCConformsTo or vector of class character and length 1

Returns: `TRUE` if added, `FALSE` otherwise

Method `delDCConformsTo()`: Deletes DC conforms to

Usage:

```
DCEntry$delDCConformsTo(conformsTo)
```

Arguments:

`conformsTo` object of class DCConformsTo or vector of class character and length 1

Returns: `TRUE` if deleted, `FALSE` otherwise

Method `setDCConformsTo()`: Set DC conforms to

Usage:

```
DCEntry$setDCConformsTo(conformsTo)
```

Arguments:

`conformsTo` vector of class character

Method `getDCConformsTo()`: Get DC conforms to

Usage:

```
DCEntry$getDCConformsTo()
```

Returns: the list of objects of class DCConformsTo

Method `addDCContributor()`: Adds DC contributor

Usage:

```
DCEntry$addDCContributor(contributor)
```

Arguments:

`contributor` object of class DCContributor or vector of class character and length 1

Returns: `TRUE` if added, `FALSE` otherwise

Method `delDCContributor()`**:** Deletes DC contributor

Usage:

```
DCEntry$delDCContributor(contributor)
```

Arguments:

`contributor` object of class DCContributor or vector of class character and length 1

Returns: `TRUE` if deleted, `FALSE` otherwise

Method `setDCContributors()`**:** Set DC contributors

Usage:

```
DCEntry$setDCContributors(contributors)
```

Arguments:

`contributors` vector of class character

Method `getDCContributors()`**:** Get DC contributors

Usage:

```
DCEntry$getDCContributors()
```

Returns: list of objects of class DCContributor

Method `addDCCoverage()`**:** Adds DC coverage

Usage:

```
DCEntry$addDCCoverage(coverage)
```

Arguments:

`coverage` object of class DCCoverage or vector of class character and length 1

Returns: `TRUE` if added, `FALSE` otherwise

Method `delDCCoverage()`**:** Deletes DC coverage

Usage:

```
DCEntry$delDCCoverage(coverage)
```

Arguments:

`coverage` object of class DCCoverage or vector of class character and length 1

Returns: `TRUE` if deleted, `FALSE` otherwise

Method `setDCCoverages()`**:** Set DC coverages

Usage:

```
DCEntry$setDCCoverages(coverages)
```

Arguments:

`coverages` coverages vector of class character

Method `getDCCoverages()`**:** Get DC coverages

Usage:

```
DCEntry$getDCCoverages()
```

Returns: a list of objects of class DCCoverage

Method `addDCCreated()`**:** Adds DC created

Usage:

```
DCEntry$addDCCreated(created)
```

Arguments:

`created` object of class DCCreated or vector of class Date,POSIXt or character and length 1

Returns: `TRUE` if added, `FALSE` otherwise

Method `delDCCreated()`**:** Deletes DC created

Usage:

```
DCEntry$delDCCreated(created)
```

Arguments:

`created` object of class DCCreated or vector of class Date,POSIXt or character and length 1

Returns: `TRUE` if deleted, `FALSE` otherwise

Method `addDCCreator()`**:** Adds DC creator

Usage:

```
DCEntry$addDCCreator(creator)
```

Arguments:

`creator` object of class DCCreator or vector of class character and length 1

Returns: `TRUE` if added, `FALSE` otherwise

Method `delDCCreator()`**:** Deletes DC creator

Usage:

```
DCEntry$delDCCreator(creator)
```

Arguments:

`creator` object of class DCCreator or vector of class character and length 1

Returns: `TRUE` if deleted, `FALSE` otherwise

Method `setDCCreators()`**:** Set DC creators

Usage:

```
DCEntry$setDCCreators(creators)
```

Arguments:

`creators` creators

Method `getDCCreators()`**:** Get DC creators

Usage:

```
DCEntry$getDCCreators()
```

Returns: a list of objects of class DCCreator

Method `addDCDate()`**:** Adds DC date

Usage:

```
DCEntry$addDCDate(date)
```

Arguments:

`date` object of class DCDate or vector of class Date,POSIXt or character and length 1

Returns: `TRUE` if added, `FALSE` otherwise

Method `delDCDate()`**:** Deletes DC date

Usage:

```
DCEntry$delDCDate(date)
```

Arguments:

`date` object of class DCDate or vector of class Date,POSIXt or character and length 1

Returns: `TRUE` if deleted, `FALSE` otherwise

Method `setDCDates()`**:** Set DC Creators

Usage:

```
DCEntry$setDCDates(dates)
```

Arguments:

`dates` dates vector of class Date or POSIXt

Method `getDCDates()`**:** Get DC Dates

Usage:

```
DCEntry$getDCDates()
```

Returns: a list of objects of class DCDate

Method `addDCDateAccepted()`**:** Adds DC date accepted

Usage:

```
DCEntry$addDCDateAccepted(dateAccepted)
```

Arguments:

`dateAccepted` object of class DCDateAccepted or vector of class Date,POSIXt or character and length 1

Returns: `TRUE` if added, `FALSE` otherwise

Method `delDCDateAccepted()`**:** Deletes DC date accepted

Usage:

```
DCEntry$delDCDateAccepted(dateAccepted)
```

Arguments:

`dateAccepted` object of class DCDateAccepted or vector of class Date,POSIXt or character and length 1

Returns: `TRUE` if deleted, `FALSE` otherwise

Method `addDCDateCopyrighted()`**:** Adds DC date copyrighted

Usage:

```
DCEntry$addDCDateCopyrighted(dateCopyrighted)
```

Arguments:

`dateCopyrighted` object of class DCDateCopyrighted or vector of class Date,POSIXt or character and length 1

Returns: `TRUE` if added, `FALSE` otherwise

Method `delDCDateCopyrighted()`**:** Deletes DC date copyrighted

Usage:

```
DCEntry$delDCDateCopyrighted(dateCopyrighted)
```

Arguments:

`dateCopyrighted` object of class DCDateCopyrighted or vector of class Date,POSIXt or character and length 1

Returns: `TRUE` if deleted, `FALSE` otherwise

Method `addDCDateSubmitted()`**:** Adds DC date submitted

Usage:

```
DCEntry$addDCDateSubmitted(dateSubmitted)
```

Arguments:

`dateSubmitted` object of class DCDateSubmitted or vector of class Date,POSIXt or character and length 1

Returns: `TRUE` if added, `FALSE` otherwise

Method `delDCDateSubmitted()`**:** Deletes DC date submitted

Usage:

```
DCEntry$delDCDateSubmitted(dateSubmitted)
```

Arguments:

`dateSubmitted` object of class DCDateSubmitted or vector of class Date,POSIXt or character and length 1

Returns: `TRUE` if deleted, `FALSE` otherwise

Method `addDCDescription()`**:** Adds DC description

Usage:

```
DCEntry$addDCDescription(description)
```

Arguments:

`description` object of class DCDescription or vector of class character and length 1

Returns: `TRUE` if added, `FALSE` otherwise

Method `delDCDescription()`**:** Deletes DC description

Usage:

```
DCEntry$delDCDescription(description)
```

Arguments:

`description` object of class DCDescription or vector of class character and length 1

Returns: `TRUE` if deleted, `FALSE` otherwise

Method `setDCDescriptions()`**:** Set DC descriptions

Usage:

```
DCEntry$setDCDescriptions(descriptions)
```

Arguments:

`descriptions` vector of class character

Method `getDCDescriptions()`**:** Get DC descriptions

Usage:

```
DCEntry$getDCDescriptions()
```

Returns: a list of objects of class DCDescription

Method `addDCEducationalLevel()`**:** Adds DC educational level

Usage:

```
DCEntry$addDCEducationalLevel(educationalLevel)
```

Arguments:

`educationalLevel` object of class DCEducationalLevel or vector of class character and length 1

Returns: `TRUE` if added, `FALSE` otherwise

Method `delDCEducationalLevel()`**:** Deletes DC educational level

Usage:

```
DCEntry$delDCEducationalLevel(educationalLevel)
```

Arguments:

`educationalLevel` object of class DCEducationalLevel or vector of class character and length 1

Returns: `TRUE` if deleted, `FALSE` otherwise

Method `setDCEducationalLevels()`**:** set DC education levels

Usage:

```
DCEntry$setDCEducationalLevels(educationLevels)
```

Arguments:

`educationLevels` vector of class character

Method `getDCEducationalLevels()`**:** Get DC educational levels

Usage:

```
DCEntry$getDCEducationalLevels()
```

Returns: a list of objects of class DCEducationalLevel

Method `addDCExtent()`**:** Adds DC extent

Usage:

```
DCEntry$addDCExtent(extent)
```

Arguments:

`extent` object of class DCExtent or vector of class character and length 1

Returns: `TRUE` if added, `FALSE` otherwise

Method `delDCExtent()`**:** Deletes DC extent

Usage:

```
DCEntry$delDCExtent(extent)
```

Arguments:

`extent` object of class DCExtent or vector of class character and length 1

Returns: `TRUE` if deleted, `FALSE` otherwise

Method `setDCExtents()`**:** Set DC extents

Usage:

```
DCEntry$setDCExtents(extents)
```

Arguments:

`extents` vector of class character

Method `getDCExtents()`**:** Get DC extents

Usage:

```
DCEntry$getDCExtents()
```

Returns: a list of objects of class DCExtent

Method `addDCFormat()`**:** Adds DC format

Usage:

```
DCEntry$addDCFormat(format)
```

Arguments:

`format` object of class DCFormat or vector of class character and length 1

Returns: `TRUE` if added, `FALSE` otherwise

Method `delDCFormat()`**:** Deletes DC format

Usage:

```
DCEntry$delDCFormat(format)
```

Arguments:

`format` object of class DCFormat or vector of class character and length 1

Returns: `TRUE` if deleted, `FALSE` otherwise

Method `setDCFormats()`**:** Set DC formats

Usage:

```
DCEntry$setDCFormats(formats)
```

Arguments:

`formats` vector of class character

Method `getDCFormats()`**:** Get DC formats

Usage:

```
DCEntry$getDCFormats()
```

Returns: a list of objects of class DCFormat

Method `addDCHasPart()`**:** Adds DC hasPart

Usage:

```
DCEntry$addDCHasPart(hasPart)
```

Arguments:

`hasPart` object of class DCHasPart or vector of class character and length 1

Returns: `TRUE` if added, `FALSE` otherwise

Method `delDCHasPart()`**:** Deletes DC hasPart

Usage:

```
DCEntry$delDCHasPart(hasPart)
```

Arguments:

`hasPart` object of class DCHasPart or vector of class character and length 1

Returns: `TRUE` if deleted, `FALSE` otherwise

Method `setDCHasParts()`**:** Set DC hasParts

Usage:

```
DCEntry$setDCHasParts(hasParts)
```

Arguments:

`hasParts` vector of class character

Method `getDCHasParts()`**:** Get DC has part

Usage:

```
DCEntry$getDCHasParts()
```

Returns: a list of objects of class DCHasPart

Method `addDCHasVersion()`**:** Adds DC hasVersion

Usage:

```
DCEntry$addDCHasVersion(hasVersion)
```

Arguments:

`hasVersion` object of class DCHasVersion or vector of class character and length 1

Returns: `TRUE` if added, `FALSE` otherwise

Method `delDCHasVersion()`**:** Deletes DC hasVersion

Usage:

```
DCEntry$delDCHasVersion(hasVersion)
```

Arguments:

`hasVersion` object of class DCHasVersion or vector of class character and length 1

Returns: TRUE if deleted, FALSE otherwise

Method `setDCHasVersions()`**:** Set DC hasVersions

Usage:

```
DCEntry$setDCHasVersions(hasVersions)
```

Arguments:

`hasVersions` vector of class character

Method `getDCHasVersions()`**:** Get DC has versions

Usage:

```
DCEntry$getDCHasVersions()
```

Returns: a list of objects of class DCHasVersion

Method `addDCIdentifier()`**:** Adds DC identifier

Usage:

```
DCEntry$addDCIdentifier(identifier)
```

Arguments:

`identifier` object of class DCIdentifier or vector of class character and length 1

Returns: TRUE if added, FALSE otherwise

Method `delDCIdentifier()`**:** Deletes DC identifier

Usage:

```
DCEntry$delDCIdentifier(identifier)
```

Arguments:

`identifier` object of class DCIdentifier or vector of class character and length 1

Returns: TRUE if deleted, FALSE otherwise

Method `setDCIdentifiers()`**:** Set DC identifiers

Usage:

```
DCEntry$setDCIdentifiers(identifiers)
```

Arguments:

`identifiers` vector of class character

Method `getDCIdentifiers()`**:** Get DC identifiers

Usage:

```
DCEntry$getDCIdentifiers()
```

Returns: a list of objects of class DCIdentifier

Method `addDCInstructionalMethod()`**:** Adds DC instructionalMethod

Usage:

```
DCEntry$addDCInstructionalMethod(instructionalMethod)
```

Arguments:

`instructionalMethod` object of class DCInstructionalMethod or vector of class character and length 1

Returns: `TRUE` if added, `FALSE` otherwise

Method `delDCInstructionalMethod()`**:** Deletes DC instructionalMethod

Usage:

```
DCEntry$delDCInstructionalMethod(instructionalMethod)
```

Arguments:

`instructionalMethod` object of class DCInstructionalMethod or vector of class character and length 1

Returns: `TRUE` if deleted, `FALSE` otherwise

Method `setDCInstructionalMethods()`**:** Set DC Instructional methods

Usage:

```
DCEntry$setDCInstructionalMethods(instructionalMethods)
```

Arguments:

`instructionalMethods` vector of class character

Method `getDCInstructionalMethods()`**:** Get DC instructional methods

Usage:

```
DCEntry$getDCInstructionalMethods()
```

Returns: a list of objects of class DCInstructionalMethod

Method `addDCIsPartOf()`**:** Adds DC isPartOf

Usage:

```
DCEntry$addDCIsPartOf(isPartOf)
```

Arguments:

`isPartOf` object of class DCIsPartOf or vector of class character and length 1

Returns: `TRUE` if added, `FALSE` otherwise

Method `delDCIsPartOf()`**:** Deletes DC isPartOf

Usage:

```
DCEntry$delDCIsPartOf(isPartOf)
```

Arguments:

`isPartOf` object of class DCIsPartOf or vector of class character and length 1

Returns: `TRUE` if deleted, `FALSE` otherwise

Method `setDCIsPartOf()`**:** Set DC IsPartOf

Usage:

```
DCEntry$setDCIsPartOf(isPartOf)
```

Arguments:

`isPartOf` vector of class character

Method `getDCIsPartOfs()`: Get DC Is Part of

Usage:

```
DCEntry$getDCIsPartOfs()
```

Returns: a list of objects of class DCIsPartOf

Method `addDCIsReferencedBy()`: Adds DC isReferencedBy

Usage:

```
DCEntry$addDCIsReferencedBy(isReferencedBy)
```

Arguments:

`isReferencedBy` object of class DCIsReferencedBy or vector of class character and length 1

Returns: `TRUE` if added, `FALSE` otherwise

Method `delDCIsReferencedBy()`: Deletes DC isReferencedBy

Usage:

```
DCEntry$delDCIsReferencedBy(isReferencedBy)
```

Arguments:

`isReferencedBy` object of class DCIsReferencedBy or vector of class character and length 1

Returns: `TRUE` if deleted, `FALSE` otherwise

Method `setDCIsReferencedBys()`: Set DC isReferencedBys

Usage:

```
DCEntry$setDCIsReferencedBys(isReferencedBys)
```

Arguments:

`isReferencedBys` vector of class character

Method `getDCIsReferencedBys()`: Get DC Is Referenced by

Usage:

```
DCEntry$getDCIsReferencedBys()
```

Returns: a list of objects of class DCIsReferencedBy

Method `addDCIsReplacedBy()`: Adds DC isReplacedBy

Usage:

```
DCEntry$addDCIsReplacedBy(isReplacedBy)
```

Arguments:

`isReplacedBy` object of class DCIsReplacedBy or vector of class character and length 1

Returns: `TRUE` if added, `FALSE` otherwise

Method `delDCIsReplacedBy()`: Deletes DC isReferencedBy

Usage:

```
DCEntry$delDCIsReplacedBy(isReplacedBy)
```

Arguments:

`isReplacedBy` object of class DCIsReplacedBy or vector of class character and length 1

Returns: TRUE if deleted, FALSE otherwise

Method `setDCIsReplacedBys()`**:** Set DC isReplacedBys

Usage:

```
DCEntry$setDCIsReplacedBys(isReplacedBys)
```

Arguments:

`isReplacedBys` vector of class character

Method `getDCIsReplacedBys()`**:** Get DC Is Replaced by

Usage:

```
DCEntry$getDCIsReplacedBys()
```

Returns: a list of objects of class DCIsReplacedBy

Method `addDCIsRequiredBy()`**:** Adds DC isRequiredBy

Usage:

```
DCEntry$addDCIsRequiredBy(isRequiredBy)
```

Arguments:

`isRequiredBy` object of class DCIsRequiredBy or vector of class character and length 1

Returns: TRUE if added, FALSE otherwise

Method `delDCIsRequiredBy()`**:** Deletes DC isRequiredBy

Usage:

```
DCEntry$delDCIsRequiredBy(isRequiredBy)
```

Arguments:

`isRequiredBy` object of class DCIsRequiredBy or vector of class character and length 1

Returns: TRUE if deleted, FALSE otherwise

Method `setDCIsRequiredBys()`**:** Set DC isRequiredBys

Usage:

```
DCEntry$setDCIsRequiredBys(isRequiredBys)
```

Arguments:

`isRequiredBys` vector of class character

Method `getDCIsRequiredBys()`**:** Get DC Is Required by

Usage:

```
DCEntry$getDCIsRequiredBys()
```

Returns: a list of objects of class DCIsRequiredBy

Method `addDCIsVersionOf()`**:** Adds DC isVersionOf

Usage:

```
DCEntry$addDCIsVersionOf(isVersionOf)
```

Arguments:

isVersionOf object of class DCIsVersionOf or vector of class character and length 1

Returns: TRUE if added, FALSE otherwise

Method delDCIsVersionOf(): Deletes DC isVersionOf

Usage:

```
DCEntry$delDCIsVersionOf(isVersionOf)
```

Arguments:

isVersionOf object of class DCIsVersionOf or vector of class character and length 1

Returns: TRUE if deleted, FALSE otherwise

Method setDCIsVersionOfs(): Set DC isVersionOfs

Usage:

```
DCEntry$setDCIsVersionOfs(isVersionOfs)
```

Arguments:

isVersionOfs vector of class character

Method getDCIsVersionOfs(): Get DC Is Version Ofs

Usage:

```
DCEntry$getDCIsVersionOfs()
```

Returns: a list of objects of class DCIsVersionOf

Method addDCIssued(): Adds DC issued

Usage:

```
DCEntry$addDCIssued(issued)
```

Arguments:

issued object of class DCIssued or vector of class Date,POSIXt or character and length 1

Returns: TRUE if added, FALSE otherwise

Method delDCIssued(): Deletes DC issued

Usage:

```
DCEntry$delDCIssued(issued)
```

Arguments:

issued object of class DCIssued or vector of class Date,POSIXt or character and length 1

Returns: TRUE if deleted, FALSE otherwise

Method addDCLanguage(): Adds DC language

Usage:

```
DCEntry$addDCLanguage(language)
```

Arguments:

language object of class DCLanguage or vector of class character and length 1

Returns: TRUE if added, FALSE otherwise

Method `delDCLanguage()`**:** Deletes DC language

Usage:

```
DCEntry$delDCLanguage(language)
```

Arguments:

`language` object of class DCLanguage or vector of class character and length 1

Returns: `TRUE` if deleted, `FALSE` otherwise

Method `setDCLanguages()`**:** Set DC languages

Usage:

```
DCEntry$setDCLanguages(languages)
```

Arguments:

`languages` languages vector of class character

Method `getDCLanguages()`**:** Get languages

Usage:

```
DCEntry$getDCLanguages()
```

Returns: a list of objects of class DCLanguage

Method `addDCLicense()`**:** Adds DC license

Usage:

```
DCEntry$addDCLicense(license)
```

Arguments:

`license` object of class DCLicense or vector of class character and length 1

Returns: `TRUE` if added, `FALSE` otherwise

Method `delDCLicense()`**:** Deletes DC license

Usage:

```
DCEntry$delDCLicense(license)
```

Arguments:

`license` object of class DCLicense or vector of class character and length 1

Returns: `TRUE` if deleted, `FALSE` otherwise

Method `setDCLicenses()`**:** Set DC licences

Usage:

```
DCEntry$setDCLicenses(licenses)
```

Arguments:

`licenses` vector of class character

Method `getDCLicenses()`**:** Get DC licenses

Usage:

```
DCEntry$getDCLicenses()
```

Returns: a list of objects of class DCLicense

Method `addDCMediator()`**:** Adds DC mediator

Usage:

```
DCEntry$addDCMediator(mediator)
```

Arguments:

`mediator` object of class DCMediator or vector of class character and length 1

Returns: `TRUE` if added, `FALSE` otherwise

Method `delDCMediator()`**:** Deletes DC mediator

Usage:

```
DCEntry$delDCMediator(mediator)
```

Arguments:

`mediator` object of class DCMediator or vector of class character and length 1

Returns: `TRUE` if deleted, `FALSE` otherwise

Method `setDCMediators()`**:** Set DC mediators

Usage:

```
DCEntry$setDCMediators(mediators)
```

Arguments:

`mediators` vector of class character

Method `getDCMediators()`**:** Get DC mediators

Usage:

```
DCEntry$getDCMediators()
```

Returns: a list of objects of class DCMediator

Method `addDCMedium()`**:** Adds DC medium

Usage:

```
DCEntry$addDCMedium(medium)
```

Arguments:

`medium` object of class DCMedium or vector of class character and length 1

Returns: `TRUE` if added, `FALSE` otherwise

Method `delDCMedium()`**:** Deletes DC medium

Usage:

```
DCEntry$delDCMedium(medium)
```

Arguments:

`medium` object of class DCMedium or vector of class character and length 1

Returns: `TRUE` if deleted, `FALSE` otherwise

Method `setDCMediums()`**:** Set DC mediums

Usage:

```
DCEntry$setDCMediums(mediums)
```

Arguments:

`mediums` vector of class character

Method `getDCMediums()`**:** Get DC mediums

Usage:

```
DCEntry$getDCMediums()
```

Returns: a list of objects of class DCMedium

Method `addDCModified()`**:** Adds DC modified

Usage:

```
DCEntry$addDCModified(modified)
```

Arguments:

`modified` object of class DCModified or vector of class Date,POSIXt or character and length 1

Returns: `TRUE` if added, `FALSE` otherwise

Method `delDCModified()`**:** Deletes DC modified

Usage:

```
DCEntry$delDCModified(modified)
```

Arguments:

`modified` object of class DCModified or vector of class Date,POSIXt or character and length 1

Returns: `TRUE` if deletes, `FALSE` otherwise

Method `addDCProvenance()`**:** Adds DC provenance

Usage:

```
DCEntry$addDCProvenance(provenance)
```

Arguments:

`provenance` object of class DCProvenance or vector of class character and length 1

Returns: `TRUE` if added, `FALSE` otherwise

Method `delDCProvenance()`**:** Deletes DC provenance

Usage:

```
DCEntry$delDCProvenance(provenance)
```

Arguments:

`provenance` object of class DCProvenance or vector of class character and length 1

Returns: `TRUE` if deleted, `FALSE` otherwise

Method `setDCProvenances()`**:** Set DC provenances

Usage:

```
DCEntry$setDCProvenances(provenances)
```

Arguments:

`provenances` vector of class character

Method `getDCProvenances()`**:** Get DC provenances

Usage:

```
DCEntry$getDCProvenances()
```

Returns: a list of objects of class DCProvenance

Method `addDCPublisher()`**:** Adds DC publisher

Usage:

```
DCEntry$addDCPublisher(publisher)
```

Arguments:

`publisher` object of class DCPublisher or vector of class character and length 1

Returns: `TRUE` if added, `FALSE` otherwise

Method `delDCPublisher()`**:** Deletes DC publisher

Usage:

```
DCEntry$delDCPublisher(publisher)
```

Arguments:

`publisher` object of class DCPublisher or vector of class character and length 1

Returns: `TRUE` if deleted, `FALSE` otherwise

Method `setDCPublishers()`**:** Set DC publishers

Usage:

```
DCEntry$setDCPublishers(publishers)
```

Arguments:

`publishers` vector of class character

Method `getDCPublishers()`**:** Get DC publishers

Usage:

```
DCEntry$getDCPublishers()
```

Returns: a list of objects of class DCPublisher

Method `addDCReferences()`**:** Adds DC references

Usage:

```
DCEntry$addDCReferences(references)
```

Arguments:

`references` object of class DCReferences or vector of class character and length 1

Returns: `TRUE` if added, `FALSE` otherwise

Method `delDCReferences()`**:** Deletes DC references

Usage:

```
DCEntry$delDCReferences(references)
```

Arguments:

`references` object of class DCReferences or vector of class character and length 1

Returns: TRUE if deleted, FALSE otherwise

Method `setDCReferences()`**:** Set DC references

Usage:

```
DCEntry$setDCReferences(references)
```

Arguments:

`references` vector of class character

Method `getDCReferences()`**:** Get DC references

Usage:

```
DCEntry$getDCReferences()
```

Returns: a list of objects of class DCReferences

Method `addDCRelation()`**:** Adds DC relation

Usage:

```
DCEntry$addDCRelation(relation)
```

Arguments:

`relation` object of class DCRelation or vector of class character and length 1

Returns: TRUE if added, FALSE otherwise

Method `delDCRelation()`**:** Deletes DC relation

Usage:

```
DCEntry$delDCRelation(relation)
```

Arguments:

`relation` object of class DCRelation or vector of class character and length 1

Returns: TRUE if deleted, FALSE otherwise

Method `setDCRelations()`**:** Set DC relations

Usage:

```
DCEntry$setDCRelations(relations)
```

Arguments:

`relations` vector of class character

Method `getDCRelations()`**:** Get DC relations

Usage:

```
DCEntry$getDCRelations()
```

Returns: a list of objects of class DCRelation

Method `addDCReplaces()`**:** Adds DC replaces

Usage:

```
DCEntry$addDCReplaces(replaces)
```

Arguments:

`replaces` object of class DCReplaces or vector of class character and length 1

Returns: `TRUE` if added, `FALSE` otherwise

Method `delDCReplaces()`**:** Deletes DC replaces

Usage:

```
DCEntry$delDCReplaces(replaces)
```

Arguments:

`replaces` object of class DCReplaces or vector of class character and length 1

Returns: `TRUE` if deleted, `FALSE` otherwise

Method `setDCReplaces()`**:** Set DC replaces

Usage:

```
DCEntry$setDCReplaces(replaces)
```

Arguments:

`replaces` vector of class character

Method `getDCReplaces()`**:** Get DC replaces

Usage:

```
DCEntry$getDCReplaces()
```

Returns: a list of objects of class DCReplaces

Method `addDCRequires()`**:** Adds DC requires

Usage:

```
DCEntry$addDCRequires(requires)
```

Arguments:

`requires` object of class DCRequires or vector of class character and length 1

Returns: `TRUE` if added, `FALSE` otherwise

Method `delDCRequires()`**:** Deletes DC requires

Usage:

```
DCEntry$delDCRequires(requires)
```

Arguments:

`requires` object of class DCRequires or vector of class character and length 1

Returns: `TRUE` if deleted, `FALSE` otherwise

Method `setDCRequires()`**:** Set DC requires

Usage:

```
DCEntry$setDCRequires(requires)
```

Arguments:

`requires` vector of class character

Method `getDCRequires()`**:** Get DC requires

Usage:

```
DCEntry$getDCRequires()
```

Returns: a list of objects of class DCRequires

Method `addDCRights()`**:** Adds DC rights

Usage:

```
DCEntry$addDCRights(rights)
```

Arguments:

`rights` object of class DCRights or vector of class character and length 1

Returns: `TRUE` if added, `FALSE` otherwise

Method `delDCRights()`**:** Deletes DC rights

Usage:

```
DCEntry$delDCRights(rights)
```

Arguments:

`rights` object of class DCRights or vector of class character and length 1

Returns: `TRUE` if deleted, `FALSE` otherwise

Method `setDCRights()`**:** Set DC rights

Usage:

```
DCEntry$setDCRights(rights)
```

Arguments:

`rights` vector of class character

Method `getDCRights()`**:** Get DC rights

Usage:

```
DCEntry$getDCRights()
```

Returns: a list of objects of class DCRights

Method `addDCRightsHolder()`**:** Adds DC rightsHolder

Usage:

```
DCEntry$addDCRightsHolder(rightsHolder)
```

Arguments:

`rightsHolder` object of class DCRightsHolder or vector of class character and length 1

Returns: `TRUE` if added, `FALSE` otherwise

Method `delDCRightsHolder()`**:** Deletes DC rightsHolder

Usage:

```
DCEntry$delDCRightsHolder(rightsHolder)
```

Arguments:

`rightsHolder` object of class DCRightsHolder or vector of class character and length 1

Returns: TRUE if deleted, FALSE otherwise

Method `setDCRightsHolders()`**:** Set DC rights holders

Usage:

```
DCEntry$setDCRightsHolders(rightsHolders)
```

Arguments:

`rightsHolders` vector of class character

Method `getDCRightsHolders()`**:** Get DC rights holders

Usage:

```
DCEntry$getDCRightsHolders()
```

Returns: a list of objects of class DCRightsHolder

Method `addDCSource()`**:** Adds DC source

Usage:

```
DCEntry$addDCSource(source)
```

Arguments:

`source` object of class DCSource or vector of class character and length 1

Returns: TRUE if added, FALSE otherwise

Method `delDCSource()`**:** Deletes DC source

Usage:

```
DCEntry$delDCSource(source)
```

Arguments:

`source` object of class DCSource or vector of class character and length 1

Returns: TRUE if deleted, FALSE otherwise

Method `setDCSources()`**:** Set DC sources

Usage:

```
DCEntry$setDCSources(sources)
```

Arguments:

`sources` vector of class character

Method `getDCSources()`**:** Get DC sources

Usage:

```
DCEntry$getDCSources()
```

Returns: a list of objects of class DCSource

Method `addDCSubject()`**:** Adds DC subject

Usage:

```
DCEntry$addDCSubject(subject)
```

Arguments:

`subject` object of class DCSubject or vector of class character and length 1

Returns: `TRUE` if added, `FALSE` otherwise

Method `delDCSubject()`**:** Deletes DC subject

Usage:

```
DCEntry$delDCSubject(subject)
```

Arguments:

`subject` object of class DCSubject or vector of class character and length 1

Returns: `TRUE` if deleted, `FALSE` otherwise

Method `setDCSubjects()`**:** Set DC subjects

Usage:

```
DCEntry$setDCSubjects(subjects)
```

Arguments:

`subjects` vector of class character

Method `getDCSubjects()`**:** Get DC Subjects

Usage:

```
DCEntry$getDCSubjects()
```

Returns: a list of objects of class DCSubject

Method `addDCTableOfContents()`**:** Adds DC tableOfContents

Usage:

```
DCEntry$addDCTableOfContents(tableOfContents)
```

Arguments:

`tableOfContents` object of class DCTableOfContents or vector of class character and length 1

Returns: `TRUE` if added, `FALSE` otherwise

Method `delDCTableOfContents()`**:** Deletes DC tableOfContents

Usage:

```
DCEntry$delDCTableOfContents(tableOfContents)
```

Arguments:

`tableOfContents` object of class DCTableOfContents or vector of class character and length 1

Returns: `TRUE` if deleted, `FALSE` otherwise

Method `setDCTablesOfContents()`**:** Set DC tables of contents

Usage:

```
DCEntry$setDCTablesOfContents(tablesOfContents)
```

Arguments:

`tablesOfContents` vector of class character

Method `getDCTablesOfContent()`: Get DC tables of contents

Usage:

```
DCEntry$getDCTablesOfContent()
```

Returns: a list of objects of class DCTableOfContents

Method `addDCTemporal()`: Adds DC temporal

Usage:

```
DCEntry$addDCTemporal(temporal)
```

Arguments:

`temporal` object of class DCTemporal or vector of class character and length 1

Returns: `TRUE` if added, `FALSE` otherwise

Method `delDCTemporal()`: Deletes DC temporal

Usage:

```
DCEntry$delDCTemporal(temporal)
```

Arguments:

`temporal` object of class DCTemporal or vector of class character and length 1

Returns: `TRUE` if deleted, `FALSE` otherwise

Method `setDCTemporals()`: Set DC temporals

Usage:

```
DCEntry$setDCTemporals(temporals)
```

Arguments:

`temporals` vector of class character

Method `getDCTemporals()`: Get DC temporals

Usage:

```
DCEntry$getDCTemporals()
```

Returns: a list of objects of class DCTemporal

Method `addDCTitle()`: Adds DC title

Usage:

```
DCEntry$addDCTitle(title)
```

Arguments:

`title` object of class DCTitle or vector of class character and length 1

Returns: `TRUE` if added, `FALSE` otherwise

Method `delDCTitle()`: Deletes DC title

Usage:

```
DCEntry$delDCTitle(title)
```

Arguments:

`title` object of class DCTitle or vector of class character and length 1

Returns: TRUE if deleted, FALSE otherwise

Method `setDCTitles()`**:** Set DC titles

Usage:

```
DCEntry$setDCTitles(titles)
```

Arguments:

`titles` vector of class character

Method `getDCTitles()`**:** Get DC titles

Usage:

```
DCEntry$getDCTitles()
```

Returns: a list of objects of class DCTitle

Method `addDCType()`**:** Adds DC type

Usage:

```
DCEntry$addDCType(type)
```

Arguments:

`type` object of class DCType or vector of class character and length 1

Returns: TRUE if added, FALSE otherwise

Method `delDCType()`**:** Deletes DC type

Usage:

```
DCEntry$delDCType(type)
```

Arguments:

`type` object of class DCType or vector of class character and length 1

Returns: TRUE if deleted, FALSE otherwise

Method `setDCTypes()`**:** Set DC Types

Usage:

```
DCEntry$setDCTypes(types)
```

Arguments:

`types` vector of class character

Method `getDCTypes()`**:** Get DC types

Usage:

```
DCEntry$getDCTypes()
```

Returns: a list of objects of class DCType

Method `clone()`**:** The objects of this class are cloneable with this method.

Usage:

```
DCEntry$clone(deep = FALSE)
```

Arguments:

`deep` Whether to make a deep clone.

Author(s)

Emmanuel Blondel <emmanuel.blondel1@gmail.com>

Examples

```
#encoding
dcentry <- DCEntry$new()
dcentry$setId("my-dc-entry")

#fill dc entry
dcentry$addDCDate(Sys.time())
dcentry$addDCTitle("atom4R - Tools to read/write and publish metadata as Atom XML format")
dcentry$addDCType("Software")
creator <- DCCreator$new(value = "Blondel, Emmanuel")
creator$attrs[["affiliation"]] <- "Independent"
dcentry$addDCCreator(creator)
dcentry$addDCSubject("R")
dcentry$addDCSubject("FAIR")
dcentry$addDCSubject("Interoperability")
dcentry$addDCSubject("Open Science")
dcentry$addDCDescription("Atom4R offers tools to read/write and publish metadata as Atom XML")
dcentry$addDCPublisher("GitHub")
funder <- DCContributor$new(value = "CNRS")
funder$attrs[["type"]] <- "Funder"
dcentry$addDCContributor(funder)
dcentry$addDCRelation("Github repository: https://github.com/eblondel/atom4R")
dcentry$addDCSource("Atom Syndication format - https://www.ietf.org/rfc/rfc4287")
dcentry$addDCSource("AtomPub, The Atom publishing protocol - https://tools.ietf.org/html/rfc5023")
dcentry$addDCSource("Sword API - http://swordapp.org/")
dcentry$addDCSource("Dublin Core Metadata Initiative - https://www.dublincore.org/")
dcentry$addDCSource("Guidelines for implementing Dublin Core in XML")
dcentry$addDCLicense("NONE")
dcentry$addDCRights("MIT License")
dcentry$addDCHasPart("part1")
dcentry$addDCHasPart("part2")
dcentry$addDCHasVersion("0.2")
dcentry$addDCIsPartOf("CRAN")
dcentry$addDCIsPartOf("GitHub")
dcentry$addDCIsReferencedBy("CRAN")
dcentry$addDCIsReferencedBy("GitHub")
dcentry$addDCIsRequiredBy("zen4R")
dcentry$addDCIsRequiredBy("cloud4R")

xml <- dcentry$encode()

#decoding
dcentry2 <- DCEntry$new(xml = xml)
xml2 <- dcentry2$encode()
```

DCExtent *DCExtent*

Description

This class models an DublinCore 'extent' element

Format

R6Class object.

Value

Object of R6Class for modelling an Dublin Core 'extent' element

Super classes

atom4R::atom4RLogger -> atom4R::AtomAbstractObject -> atom4R::DCElement -> atom4R::DCFormat -> DCExtent

Methods

Public methods:

- DCExtent$new()
- DCExtent$clone()

Method `new()`**:** Initializes an object of class DCExtent

Usage:

```
DCExtent$new(xml = NULL, value = NULL)
```

Arguments:

`xml` object of class XMLInternalNode-class from **XML**

`value` value

Method `clone()`**:** The objects of this class are cloneable with this method.

Usage:

```
DCExtent$clone(deep = FALSE)
```

Arguments:

`deep` Whether to make a deep clone.

References

Dublin Core Metadata Initiative. https://www.dublincore.org/specifications/dublin-core/dcmi-terms/terms/extent

DCFormat *DCFormat*

Description

This class models an DublinCore 'format' element

Format

R6Class object.

Value

Object of R6Class for modelling an Dublin Core 'format' element

Super classes

atom4R::atom4RLogger -> atom4R::AtomAbstractObject -> atom4R::DCElement -> DCFormat

Methods

Public methods:

- DCFormat$new()
- DCFormat$clone()

Method `new()`**:** Initializes an object of class DCFormat

Usage:

```
DCFormat$new(xml = NULL, term = NULL, value = NULL)
```

Arguments:

`xml` object of class XMLInternalNode-class from **XML**

`term` term

`value` value

Method `clone()`**:** The objects of this class are cloneable with this method.

Usage:

```
DCFormat$clone(deep = FALSE)
```

Arguments:

`deep` Whether to make a deep clone.

References

Dublin Core Metadata Initiative. https://www.dublincore.org/specifications/dublin-core/dcmi-terms/terms/format

DCHasPart *DCHasPart*

Description

This class models an DublinCore 'hasPart' element

Format

R6Class object.

Value

Object of R6Class for modelling an Dublin Core Terms 'hasPart' element

Super classes

atom4R::atom4RLogger -> atom4R::AtomAbstractObject -> atom4R::DCElement -> DCHasPart

Methods

Public methods:

- DCHasPart$new()
- DCHasPart$clone()

Method `new()`**:** This method is used to create an Dublin core 'hasPart' element. Use dc to TRUE to use Dublin core namespace instead of DC terms.

Usage:

```
DCHasPart$new(xml = NULL, value = NULL, dc = FALSE)
```

Arguments:

`xml` object of class XMLInternalNode-class from **XML**

`value` value

`dc` use DC namespace?

Method `clone()`**:** The objects of this class are cloneable with this method.

Usage:

```
DCHasPart$clone(deep = FALSE)
```

Arguments:

`deep` Whether to make a deep clone.

References

Dublin Core Metadata Initiative. https://www.dublincore.org/specifications/dublin-core/dcmi-terms/#http://purl.org/dc/terms

DCHasVersion *DCHasVersion*

Description

This class models an DublinCore 'hasVersion' element

Format

R6Class object.

Value

Object of R6Class for modelling an Dublin Core Terms 'hasPart' element

Super classes

atom4R::atom4RLogger -> atom4R::AtomAbstractObject -> atom4R::DCElement -> DCHasVersion

Methods

Public methods:

- DCHasVersion$new()
- DCHasVersion$clone()

Method `new()`**:** This method is used to create an Dublin core 'hasVersion' element. Use dc to TRUE to use Dublin core namespace instead of DC terms.

Usage:

```
DCHasVersion$new(xml = NULL, value = NULL, dc = FALSE)
```

Arguments:

`xml` object of class XMLInternalNode-class from **XML**

`value` value

`dc` use DC namespace?

Method `clone()`**:** The objects of this class are cloneable with this method.

Usage:

```
DCHasVersion$clone(deep = FALSE)
```

Arguments:

`deep` Whether to make a deep clone.

References

Dublin Core Metadata Initiative. https://www.dublincore.org/specifications/dublin-core/dcmi-terms/#http://purl.org/dc/terms

DCIdentifier *DCIdentifier*

Description

This class models an DublinCore 'identifier' element

Format

R6Class object.

Value

Object of R6Class for modelling an Dublin Core 'identifier' element

Super classes

atom4R::atom4RLogger -> atom4R::AtomAbstractObject -> atom4R::DCElement -> DCIdentifier

Methods

Public methods:

- DCIdentifier$new()
- DCIdentifier$clone()

Method `new()`**:** This method is used to create an Dublin core 'identifier' element. Use `dc` to `TRUE` to use Dublin core namespace instead of DC terms.

Usage:

```
DCIdentifier$new(xml = NULL, term = NULL, value = NULL, dc = FALSE)
```

Arguments:

`xml` object of class XMLInternalNode-class from **XML**

`term` term

`value` value

`dc` use DC namespace?

Method `clone()`**:** The objects of this class are cloneable with this method.

Usage:

```
DCIdentifier$clone(deep = FALSE)
```

Arguments:

`deep` Whether to make a deep clone.

References

Dublin Core Metadata Initiative. https://www.dublincore.org/specifications/dublin-core/dcmi-terms/terms/identifier

DCInstructionalMethod *DCInstructionalMethod*

Description

This class models an DublinCore 'instructionalMethod' element

Format

R6Class object.

Value

Object of R6Class for modelling an Dublin Core 'instructionalMethod' element

Super classes

atom4R::atom4RLogger -> atom4R::AtomAbstractObject -> atom4R::DCElement -> DCInstructionalMethod

Methods

Public methods:

- DCInstructionalMethod$new()
- DCInstructionalMethod$clone()

Method `new()`**:** Initializes an object of class DCInstructionalMethod

Usage:

```
DCInstructionalMethod$new(xml = NULL, value = NULL)
```

Arguments:

`xml` object of class XMLInternalNode-class from **XML**

`value` value

Method `clone()`**:** The objects of this class are cloneable with this method.

Usage:

```
DCInstructionalMethod$clone(deep = FALSE)
```

Arguments:

`deep` Whether to make a deep clone.

References

Dublin Core Metadata Initiative. https://www.dublincore.org/specifications/dublin-core/dcmi-terms/terms/instructionalMeth

DCIsPartOf *DCIsPartOf*

Description

This class models an DublinCore 'isPartOf' element

Format

`R6Class` object.

Value

Object of `R6Class` for modelling an Dublin Core Terms 'isPartOf' element

Super classes

`atom4R::atom4RLogger` -> `atom4R::AtomAbstractObject` -> `atom4R::DCElement` -> `DCIsPartOf`

Methods

Public methods:

- `DCIsPartOf$new()`
- `DCIsPartOf$clone()`

Method `new()`**:** This method is used to create an Dublin core 'isPartOf' element. Use `dc` to `TRUE` to use Dublin core namespace instead of DC terms.

Usage:

```
DCIsPartOf$new(xml = NULL, value = NULL, dc = FALSE)
```

Arguments:

`xml` object of class XMLInternalNode-class from **XML**

`value` value

`dc` use DC namespace?

Method `clone()`**:** The objects of this class are cloneable with this method.

Usage:

```
DCIsPartOf$clone(deep = FALSE)
```

Arguments:

`deep` Whether to make a deep clone.

References

Dublin Core Metadata Initiative. https://www.dublincore.org/specifications/dublin-core/dcmi-terms/#http://purl.org/dc/terms

DCIsReferencedBy *DCIsReferencedBy*

Description

This class models an DublinCore 'isReferencedBy' element

Format

R6Class object.

Value

Object of R6Class for modelling an Dublin Core Terms 'isReferencedBy' element

Super classes

atom4R::atom4RLogger -> atom4R::AtomAbstractObject -> atom4R::DCElement -> DCIsReferencedBy

Methods

Public methods:

- DCIsReferencedBy$new()
- DCIsReferencedBy$clone()

Method `new()`**:** This method is used to create an Dublin core 'isReferencedBy' element. Use dc to TRUE to use Dublin core namespace instead of DC terms.

Usage:

```
DCIsReferencedBy$new(xml = NULL, value = NULL, dc = FALSE)
```

Arguments:

`xml` object of class XMLInternalNode-class from **XML**

`value` value

`dc` use DC namespace?

Method `clone()`**:** The objects of this class are cloneable with this method.

Usage:

```
DCIsReferencedBy$clone(deep = FALSE)
```

Arguments:

`deep` Whether to make a deep clone.

References

Dublin Core Metadata Initiative. https://www.dublincore.org/specifications/dublin-core/dcmi-terms/#http://purl.org/dc/terms

DCIsReplacedBy *DCIsReplacedBy*

Description

This class models an DublinCore 'isReplacedBy' element

Format

R6Class object.

Value

Object of R6Class for modelling an Dublin Core Terms 'isReplacedBy' element

Super classes

atom4R::atom4RLogger -> atom4R::AtomAbstractObject -> atom4R::DCElement -> DCIsReplacedBy

Methods

Public methods:

- DCIsReplacedBy$new()
- DCIsReplacedBy$clone()

Method `new()`**:** This method is used to create an Dublin core 'isReplacedBy' element. Use `dc` to `TRUE` to use Dublin core namespace instead of DC terms.

Usage:

```
DCIsReplacedBy$new(xml = NULL, value = NULL, dc = FALSE)
```

Arguments:

`xml` object of class XMLInternalNode-class from **XML**

`value` value

`dc` use DC namespace?

Method `clone()`**:** The objects of this class are cloneable with this method.

Usage:

```
DCIsReplacedBy$clone(deep = FALSE)
```

Arguments:

`deep` Whether to make a deep clone.

References

Dublin Core Metadata Initiative. https://www.dublincore.org/specifications/dublin-core/dcmi-terms/#http://purl.org/dc/terms

DCIsRequiredBy *DCIsRequiredBy*

Description

This class models an DublinCore 'isRequiredBy' element

Format

R6Class object.

Value

Object of R6Class for modelling an Dublin Core Terms 'isRequiredBy' element

Super classes

atom4R::atom4RLogger -> atom4R::AtomAbstractObject -> atom4R::DCElement -> DCIsRequiredBy

Methods

Public methods:

- DCIsRequiredBy$new()
- DCIsRequiredBy$clone()

Method `new()`**:** This method is used to create an Dublin core 'isRequiredBy' element. Use `dc` to `TRUE` to use Dublin core namespace instead of DC terms.

Usage:

```
DCIsRequiredBy$new(xml = NULL, value = NULL, dc = FALSE)
```

Arguments:

`xml` object of class XMLInternalNode-class from **XML**

`value` value

`dc` use DC namespace?

Method `clone()`**:** The objects of this class are cloneable with this method.

Usage:

```
DCIsRequiredBy$clone(deep = FALSE)
```

Arguments:

`deep` Whether to make a deep clone.

References

Dublin Core Metadata Initiative. https://www.dublincore.org/specifications/dublin-core/dcmi-terms/#http://purl.org/dc/terms

DCIssued *DCIssued*

Description

This class models an DublinCore 'issued' element

Format

R6Class object.

Value

Object of R6Class for modelling an Dublin Core Terms 'issued' element

Super classes

atom4R::atom4RLogger -> atom4R::AtomAbstractObject -> atom4R::DCElement -> atom4R::DCDate -> DCIssued

Methods

Public methods:

- DCIssued$new()
- DCIssued$clone()

Method `new()`**:** Initializes an object of class DCIssued

Usage:

```
DCIssued$new(xml = NULL, value = NULL)
```

Arguments:

`xml` object of class XMLInternalNode-class from **XML**

`value` value

Method `clone()`**:** The objects of this class are cloneable with this method.

Usage:

```
DCIssued$clone(deep = FALSE)
```

Arguments:

`deep` Whether to make a deep clone.

References

Dublin Core Metadata Initiative. https://www.dublincore.org/specifications/dublin-core/dcmi-terms/terms/issued

DCIsVersionOf *DCIsVersionOf*

Description

This class models an DublinCore 'isVersionOf' element

Format

`R6Class` object.

Value

Object of `R6Class` for modelling an Dublin Core Terms 'isVersionOf' element

Super classes

`atom4R::atom4RLogger` -> `atom4R::AtomAbstractObject` -> `atom4R::DCElement` -> `DCIsVersionOf`

Methods

Public methods:

- `DCIsVersionOf$new()`
- `DCIsVersionOf$clone()`

Method `new()`**:** This method is used to create an Dublin core 'isVersionOf' element. Use `dc` to `TRUE` to use Dublin core namespace instead of DC terms.

Usage:

```
DCIsVersionOf$new(xml = NULL, value = NULL, dc = FALSE)
```

Arguments:

`xml` object of class XMLInternalNode-class from **XML**

`value` value

`dc` use DC namespace?

Method `clone()`**:** The objects of this class are cloneable with this method.

Usage:

```
DCIsVersionOf$clone(deep = FALSE)
```

Arguments:

`deep` Whether to make a deep clone.

References

Dublin Core Metadata Initiative. https://www.dublincore.org/specifications/dublin-core/dcmi-terms/#http://purl.org/dc/terms

DCLanguage *DCLanguage*

Description

This class models an DublinCore 'language' element

Format

R6Class object.

Value

Object of R6Class for modelling an Dublin Core Terms 'language' element

Super classes

atom4R::atom4RLogger -> atom4R::AtomAbstractObject -> atom4R::DCElement -> DCLanguage

Methods

Public methods:

- DCLanguage$new()
- DCLanguage$clone()

Method `new()`**:** This method is used to create an Dublin core 'language' element. Use dc to TRUE to use Dublin core namespace instead of DC terms.

Usage:

```
DCLanguage$new(xml = NULL, value = NULL, dc = FALSE)
```

Arguments:

`xml` object of class XMLInternalNode-class from **XML**

`value` value

`dc` use DC namespace?

Method `clone()`**:** The objects of this class are cloneable with this method.

Usage:

```
DCLanguage$clone(deep = FALSE)
```

Arguments:

`deep` Whether to make a deep clone.

References

Dublin Core Metadata Initiative. https://www.dublincore.org/specifications/dublin-core/dcmi-terms/terms/language

DCLicense *DCLicense*

Description

This class models an DublinCore 'license' element

Format

R6Class object.

Value

Object of R6Class for modelling an Dublin Core Terms 'license' element

Super classes

atom4R::atom4RLogger -> atom4R::AtomAbstractObject -> atom4R::DCElement -> atom4R::DCRights -> DCLicense

Methods

Public methods:

- DCLicense$new()
- DCLicense$clone()

Method `new()`**:** Initializes an object of class DCLicense

Usage:

```
DCLicense$new(xml = NULL, value = NULL)
```

Arguments:

`xml` object of class XMLInternalNode-class from **XML**

`value` value

Method `clone()`**:** The objects of this class are cloneable with this method.

Usage:

```
DCLicense$clone(deep = FALSE)
```

Arguments:

`deep` Whether to make a deep clone.

References

Dublin Core Metadata Initiative. https://www.dublincore.org/specifications/dublin-core/dcmi-terms/terms/license

DCMediator *DCMediator*

Description

This class models an DublinCore 'mediator' element

Format

R6Class object.

Value

Object of R6Class for modelling an Dublin Core Terms 'mediator' element

Super classes

atom4R::atom4RLogger -> atom4R::AtomAbstractObject -> atom4R::DCElement -> atom4R::DCAudience -> DCMediator

Methods

Public methods:

- DCMediator$new()
- DCMediator$clone()

Method `new()`**:** Initializes an object of class DCMediator

Usage:

```
DCMediator$new(xml = NULL, value = NULL)
```

Arguments:

`xml` object of class XMLInternalNode-class from **XML**

`value` value

Method `clone()`**:** The objects of this class are cloneable with this method.

Usage:

```
DCMediator$clone(deep = FALSE)
```

Arguments:

`deep` Whether to make a deep clone.

References

Dublin Core Metadata Initiative. https://www.dublincore.org/specifications/dublin-core/dcmi-terms/terms/mediator

DCMedium *DCMedium*

Description

This class models an DublinCore 'medium' element

Format

R6Class object.

Value

Object of R6Class for modelling an Dublin Core Terms 'medium' element

Super classes

atom4R::atom4RLogger -> atom4R::AtomAbstractObject -> atom4R::DCElement -> atom4R::DCFormat -> DCMedium

Methods

Public methods:

- DCMedium$new()
- DCMedium$clone()

Method `new()`**:** Initializes an object of class DCMedium

Usage:

```
DCMedium$new(xml = NULL, value = NULL)
```

Arguments:

`xml` object of class XMLInternalNode-class from **XML**

`value` value

Method `clone()`**:** The objects of this class are cloneable with this method.

Usage:

```
DCMedium$clone(deep = FALSE)
```

Arguments:

`deep` Whether to make a deep clone.

References

Dublin Core Metadata Initiative. https://www.dublincore.org/specifications/dublin-core/dcmi-terms/terms/medium

DCMIVocabulary *DCMI Vocabulary class*

Description

This class models an DCMI Vocabulary

Format

R6Class object.

Details

DCMIVocabulary

Value

Object of R6Class for modelling an Dublin Core element

Public fields

`id` id

`doc` doc

`representation` representation

`data` data

Methods

Public methods:

- DCMIVocabulary$new()
- DCMIVocabulary$fetch()
- DCMIVocabulary$clone()

Method `new()`**:** This method is used to read a DCMI vocabulary RDF doc. The format corresponds to the RDF format as used by **rdflib** `rdf_parse` function.

Usage:

```
DCMIVocabulary$new(id, doc, format, fetch = TRUE)
```

Arguments:

`id` id

`doc` doc

`format` format

`fetch` fetch

Method `fetch()`**:** Runs a Sparql query over the RDF vocabulary to fetch the vocabulary content.

Usage:

```
DCMIVocabulary$fetch()
```

Method `clone()`**:** The objects of this class are cloneable with this method.

Usage:

```
DCMIVocabulary$clone(deep = FALSE)
```

Arguments:

`deep` Whether to make a deep clone.

Author(s)

Emmanuel Blondel <emmanuel.blondel1@gmail.com>

`DCModified` *DCModified*

Description

This class models an DublinCore 'modified' element

Format

`R6Class` object.

Value

Object of `R6Class` for modelling an Dublin Core Terms 'modified' element

Super classes

`atom4R::atom4RLogger` -> `atom4R::AtomAbstractObject` -> `atom4R::DCElement` -> `atom4R::DCDate` -> `DCModified`

Methods

Public methods:

- `DCModified$new()`
- `DCModified$clone()`

Method `new()`**:** Initializes an object of class DCModified

Usage:

```
DCModified$new(xml = NULL, value = NULL)
```

Arguments:

`xml` object of class XMLInternalNode-class from **XML**

`value` value

Method `clone()`**:** The objects of this class are cloneable with this method.

Usage:

```
DCModified$clone(deep = FALSE)
```

Arguments:

`deep` Whether to make a deep clone.

References

Dublin Core Metadata Initiative. https://www.dublincore.org/specifications/dublin-core/dcmi-terms/terms/modified

---

`DCProvenance` *DCProvenance*

Description

This class models an DublinCore 'provenance' element

Format

`R6Class` object.

Value

Object of `R6Class` for modelling an Dublin Core Terms 'provenance' element

Super classes

`atom4R::atom4RLogger` -> `atom4R::AtomAbstractObject` -> `atom4R::DCElement` -> `DCProvenance`

Methods

Public methods:

- `DCProvenance$new()`
- `DCProvenance$clone()`

Method `new()`**:** Initializes an object of class DCProvenance

Usage:

```
DCProvenance$new(xml = NULL, value = NULL)
```

Arguments:

`xml` object of class XMLInternalNode-class from **XML**

`value` value

Method `clone()`**:** The objects of this class are cloneable with this method.

Usage:

```
DCProvenance$clone(deep = FALSE)
```

Arguments:

`deep` Whether to make a deep clone.

References

Dublin Core Metadata Initiative. https://www.dublincore.org/specifications/dublin-core/dcmi-terms/terms/provenance

---

`DCPublisher` *DCPublisher*

Description

This class models an DublinCore 'publisher' element

Format

`R6Class` object.

Value

Object of `R6Class` for modelling an Dublin Core Terms 'publisher' element

Super classes

`atom4R::atom4RLogger` -> `atom4R::AtomAbstractObject` -> `atom4R::DCElement` -> `DCPublisher`

Methods

Public methods:

- `DCPublisher$new()`
- `DCPublisher$clone()`

Method `new()`**:** This method is used to create an Dublin core 'publisher' element. Use `dc` to `TRUE` to use Dublin core namespace instead of DC terms.

Usage:

```
DCPublisher$new(xml = NULL, value = NULL, dc = FALSE)
```

Arguments:

`xml` object of class XMLInternalNode-class from **XML**

`value` value

`dc` use DC namespace?

Method `clone()`**:** The objects of this class are cloneable with this method.

Usage:

```
DCPublisher$clone(deep = FALSE)
```

Arguments:

`deep` Whether to make a deep clone.

References

Dublin Core Metadata Initiative. https://www.dublincore.org/specifications/dublin-core/dcmi-terms/terms/publisher

DCReferences *DCReferences*

Description

This class models an DublinCore 'references' element

Format

R6Class object.

Value

Object of R6Class for modelling an Dublin Core Terms 'references' element

Super classes

atom4R::atom4RLogger -> atom4R::AtomAbstractObject -> atom4R::DCElement -> atom4R::DCRelation -> DCReferences

Methods

Public methods:

- DCReferences$new()
- DCReferences$clone()

Method `new()`**:** Initializes an object of class DCReferences

Usage:

```
DCReferences$new(xml = NULL, value = NULL)
```

Arguments:

`xml` object of class XMLInternalNode-class from **XML**

`value` value

Method `clone()`**:** The objects of this class are cloneable with this method.

Usage:

```
DCReferences$clone(deep = FALSE)
```

Arguments:

`deep` Whether to make a deep clone.

References

Dublin Core Metadata Initiative. https://www.dublincore.org/specifications/dublin-core/dcmi-terms/terms/references

DCRelation *DCRelation*

Description

This class models an DublinCore 'relation' element

Format

R6Class object.

Value

Object of R6Class for modelling an Dublin Core Terms 'relation' element

Super classes

atom4R::atom4RLogger -> atom4R::AtomAbstractObject -> atom4R::DCElement -> DCRelation

Methods

Public methods:

- DCRelation$new()
- DCRelation$clone()

Method `new()`**:** This method is used to create an Dublin core 'relation' element. Use dc to TRUE to use Dublin core namespace instead of DC terms.

Usage:

```
DCRelation$new(xml = NULL, term = NULL, value = NULL, dc = FALSE)
```

Arguments:

`xml` object of class XMLInternalNode-class from **XML**

`term` term

`value` value

`dc` use DC namespace?

Method `clone()`**:** The objects of this class are cloneable with this method.

Usage:

```
DCRelation$clone(deep = FALSE)
```

Arguments:

`deep` Whether to make a deep clone.

References

Dublin Core Metadata Initiative. https://www.dublincore.org/specifications/dublin-core/dcmi-terms/terms/relation

DCReplaces *DCReplaces*

Description

This class models an DublinCore 'replaces' element

Format

R6Class object.

Value

Object of R6Class for modelling an Dublin Core Terms 'replaces' element

Super classes

atom4R::atom4RLogger -> atom4R::AtomAbstractObject -> atom4R::DCElement -> atom4R::DCRelation -> DCReplaces

Methods

Public methods:

- DCReplaces$new()
- DCReplaces$clone()

Method `new()`**:** Initializes an object of class DCReplaces

Usage:

```
DCReplaces$new(xml = NULL, value = NULL)
```

Arguments:

`xml` object of class XMLInternalNode-class from **XML**

`value` value

Method `clone()`**:** The objects of this class are cloneable with this method.

Usage:

```
DCReplaces$clone(deep = FALSE)
```

Arguments:

`deep` Whether to make a deep clone.

References

Dublin Core Metadata Initiative. https://www.dublincore.org/specifications/dublin-core/dcmi-terms/terms/replaces

DCRequires *DCRequires*

Description

This class models an DublinCore 'requires' element

Format

R6Class object.

Value

Object of R6Class for modelling an Dublin Core Terms 'requires' element

Super classes

atom4R::atom4RLogger -> atom4R::AtomAbstractObject -> atom4R::DCElement -> atom4R::DCRelation -> DCRequires

Methods

Public methods:

- DCRequires$new()
- DCRequires$clone()

Method `new()`**:** Initializes an object of class DCRequires

Usage:

```
DCRequires$new(xml = NULL, value = NULL)
```

Arguments:

`xml` object of class XMLInternalNode-class from **XML**

`value` value

Method `clone()`**:** The objects of this class are cloneable with this method.

Usage:

```
DCRequires$clone(deep = FALSE)
```

Arguments:

`deep` Whether to make a deep clone.

References

Dublin Core Metadata Initiative. https://www.dublincore.org/specifications/dublin-core/dcmi-terms/terms/requires

DCRights *DCRights*

Description

This class models an DublinCore 'rights' element

Format

R6Class object.

Value

Object of R6Class for modelling an Dublin Core Terms 'rights' element

Super classes

atom4R::atom4RLogger -> atom4R::AtomAbstractObject -> atom4R::DCElement -> DCRights

Methods

Public methods:

- DCRights$new()
- DCRights$clone()

Method `new()`**:** This method is used to create an Dublin core 'rights' element. Use `dc` to `TRUE` to use Dublin core namespace instead of DC terms.

Usage:

```
DCRights$new(xml = NULL, term = NULL, value = NULL, dc = FALSE)
```

Arguments:

`xml` object of class XMLInternalNode-class from **XML**

`term` term

`value` value

`dc` use DC namespace?

Method `clone()`**:** The objects of this class are cloneable with this method.

Usage:

```
DCRights$clone(deep = FALSE)
```

Arguments:

`deep` Whether to make a deep clone.

References

Dublin Core Metadata Initiative. https://www.dublincore.org/specifications/dublin-core/dcmi-terms/terms/rights

DCRightsHolder *DCRightsHolder*

Description

This class models an DublinCore 'rightsHolder' element

Format

R6Class object.

Value

Object of R6Class for modelling an Dublin Core Terms 'rightsHolder' element

Super classes

atom4R::atom4RLogger -> atom4R::AtomAbstractObject -> atom4R::DCElement -> DCRightsHolder

Methods

Public methods:

- DCRightsHolder$new()
- DCRightsHolder$clone()

Method `new()`**:** Initializes an object of class DCRightsHolder

Usage:

```
DCRightsHolder$new(xml = NULL, value = NULL)
```

Arguments:

`xml` object of class XMLInternalNode-class from **XML**

`value` value

Method `clone()`**:** The objects of this class are cloneable with this method.

Usage:

```
DCRightsHolder$clone(deep = FALSE)
```

Arguments:

`deep` Whether to make a deep clone.

References

Dublin Core Metadata Initiative. https://www.dublincore.org/specifications/dublin-core/dcmi-terms/terms/rightsHolder

DCSource *DCSource*

Description

This class models an DublinCore 'source' element

Format

R6Class object.

Value

Object of R6Class for modelling an Dublin Core Terms 'source' element

Super classes

atom4R::atom4RLogger -> atom4R::AtomAbstractObject -> atom4R::DCElement -> atom4R::DCRelation -> DCSource

Methods

Public methods:

- DCSource$new()
- DCSource$clone()

Method `new()`**:** This method is used to create an Dublin core 'source' element. Use dc to TRUE to use Dublin core namespace instead of DC terms.

Usage:

```
DCSource$new(xml = NULL, value = NULL, dc = FALSE)
```

Arguments:

`xml` object of class XMLInternalNode-class from **XML**

`value` value

`dc` use DC namespace?

Method `clone()`**:** The objects of this class are cloneable with this method.

Usage:

```
DCSource$clone(deep = FALSE)
```

Arguments:

`deep` Whether to make a deep clone.

References

Dublin Core Metadata Initiative. https://www.dublincore.org/specifications/dublin-core/dcmi-terms/terms/source

DCSpatial *DCSpatial*

Description

This class models an DublinCore 'spatial' element

Format

R6Class object.

Value

Object of R6Class for modelling an Dublin Core Terms 'spatial' element

Super classes

atom4R::atom4RLogger -> atom4R::AtomAbstractObject -> atom4R::DCElement -> atom4R::DCCoverage -> DCSpatial

Methods

Public methods:

- DCSpatial$new()
- DCSpatial$clone()

Method `new()`**:** Initializes an object of class DCSpatial

Usage:

```
DCSpatial$new(xml = NULL, value = NULL)
```

Arguments:

`xml` object of class XMLInternalNode-class from **XML**

`value` value

Method `clone()`**:** The objects of this class are cloneable with this method.

Usage:

```
DCSpatial$clone(deep = FALSE)
```

Arguments:

`deep` Whether to make a deep clone.

References

Dublin Core Metadata Initiative. https://www.dublincore.org/specifications/dublin-core/dcmi-terms/terms/spatial

DCSubject *DCSubject*

Description

This class models an DublinCore 'subject' element

Format

R6Class object.

Value

Object of R6Class for modelling an Dublin Core Terms 'subject' element

Super classes

atom4R::atom4RLogger -> atom4R::AtomAbstractObject -> atom4R::DCElement -> DCSubject

Methods

Public methods:

- DCSubject$new()
- DCSubject$clone()

Method `new()`**:** This method is used to create an Dublin core 'subject' element. Use dc to TRUE to use Dublin core namespace instead of DC terms.

Usage:

```
DCSubject$new(xml = NULL, value = NULL, dc = FALSE)
```

Arguments:

`xml` object of class XMLInternalNode-class from **XML**

`value` value

`dc` use DC namespace?

Method `clone()`**:** The objects of this class are cloneable with this method.

Usage:

```
DCSubject$clone(deep = FALSE)
```

Arguments:

`deep` Whether to make a deep clone.

References

Dublin Core Metadata Initiative. https://www.dublincore.org/specifications/dublin-core/dcmi-terms/terms/subject

DCTableOfContents *DCTableOfContents*

Description

This class models an DublinCore 'tableOfContents' element

Format

R6Class object.

Value

Object of R6Class for modelling an Dublin Core Terms 'tableOfContents' element

Super classes

atom4R::atom4RLogger -> atom4R::AtomAbstractObject -> atom4R::DCElement -> atom4R::DCDescription -> DCTableOfContents

Methods

Public methods:

- DCTableOfContents$new()
- DCTableOfContents$clone()

Method `new()`**:** Initializes an object of class DCTableOfContents

Usage:

```
DCTableOfContents$new(xml = NULL, value = NULL)
```

Arguments:

`xml` object of class XMLInternalNode-class from **XML**

`value` value

Method `clone()`**:** The objects of this class are cloneable with this method.

Usage:

```
DCTableOfContents$clone(deep = FALSE)
```

Arguments:

`deep` Whether to make a deep clone.

References

Dublin Core Metadata Initiative. https://www.dublincore.org/specifications/dublin-core/dcmi-terms/terms/tableOfContents

DCTemporal *DCTemporal*

Description

This class models an DublinCore 'temporal' element

Format

R6Class object.

Value

Object of R6Class for modelling an Dublin Core Terms 'temporal' element

Super classes

atom4R::atom4RLogger -> atom4R::AtomAbstractObject -> atom4R::DCElement -> atom4R::DCCoverage -> DCTemporal

Methods

Public methods:

- DCTemporal$new()
- DCTemporal$clone()

Method `new()`**:** Initializes an object of class DCTemporal

Usage:

```
DCTemporal$new(xml = NULL, value = NULL)
```

Arguments:

`xml` object of class XMLInternalNode-class from **XML**

`value` value

Method `clone()`**:** The objects of this class are cloneable with this method.

Usage:

```
DCTemporal$clone(deep = FALSE)
```

Arguments:

`deep` Whether to make a deep clone.

References

Dublin Core Metadata Initiative. https://www.dublincore.org/specifications/dublin-core/dcmi-terms/terms/temporal

DCTitle *DCTitle*

Description

This class models an DublinCore 'title' element

Format

R6Class object.

Value

Object of R6Class for modelling an Dublin Core Terms 'title' element

Super classes

atom4R::atom4RLogger -> atom4R::AtomAbstractObject -> atom4R::DCElement -> DCTitle

Methods

Public methods:

- DCTitle$new()
- DCTitle$clone()

Method new(): This method is used to create an Dublin core 'title' element. Use dc to TRUE to use Dublin core namespace instead of DC terms.

Usage:

```
DCTitle$new(xml = NULL, term = NULL, value = NULL, dc = FALSE)
```

Arguments:

xml object of class XMLInternalNode-class from **XML**

term term

value value

dc use DC namespace?

Method clone(): The objects of this class are cloneable with this method.

Usage:

```
DCTitle$clone(deep = FALSE)
```

Arguments:

deep Whether to make a deep clone.

References

Dublin Core Metadata Initiative. https://www.dublincore.org/specifications/dublin-core/dcmi-terms/terms/title

DCType *DCType*

Description

This class models an DublinCore 'type' element

Format

`R6Class` object.

Value

Object of `R6Class` for modelling an Dublin Core Terms 'type' element

Super classes

`atom4R::atom4RLogger` -> `atom4R::AtomAbstractObject` -> `atom4R::DCElement` -> `DCType`

Methods

Public methods:

- `DCType$new()`
- `DCType$clone()`

Method `new()`**:** This method is used to create an Dublin core 'type' element. Use `dc` to `TRUE` to use Dublin core namespace instead of DC terms.

Usage:

```
DCType$new(xml = NULL, value = NULL, dc = FALSE)
```

Arguments:

`xml` object of class XMLInternalNode-class from **XML**

`value` value

`dc` use DC namespace?

Method `clone()`**:** The objects of this class are cloneable with this method.

Usage:

```
DCType$clone(deep = FALSE)
```

Arguments:

`deep` Whether to make a deep clone.

References

Dublin Core Metadata Initiative. https://www.dublincore.org/specifications/dublin-core/dcmi-terms/terms/type

DCValid *DCValid*

Description

This class models an DublinCore 'valid' element

Format

R6Class object.

Value

Object of R6Class for modelling an Dublin Core Terms 'valid' element

Super classes

atom4R::atom4RLogger -> atom4R::AtomAbstractObject -> atom4R::DCElement -> atom4R::DCDate -> DCValid

Methods

Public methods:

- DCValid$new()
- DCValid$clone()

Method `new()`**:** Initializes an object of class DCValid

Usage:

```
DCValid$new(xml = NULL, value = NULL)
```

Arguments:

`xml` object of class XMLInternalNode-class from **XML**

`value` value

Method `clone()`**:** The objects of this class are cloneable with this method.

Usage:

```
DCValid$clone(deep = FALSE)
```

Arguments:

`deep` Whether to make a deep clone.

References

Dublin Core Metadata Initiative. https://www.dublincore.org/specifications/dublin-core/dcmi-terms/terms/valid

getAtomClasses *getAtomClasses*

Description

get the list of Atom classes, ie classes extending AtomAbstractObject super class, including classes eventually defined outside **atom4R**. In case the latter is on the search path, the list of Atom classes will be cached for optimized used by **atom4R** encoder/decoder.

Usage

```
getAtomClasses()
```

Author(s)

Emmanuel Blondel, <emmanuel.blondel1@gmail.com>

Examples

```
getAtomClasses()
```

getAtomNamespace *getAtomNamespace*

Description

`getAtomNamespace` gets a namespace given its id

Usage

```
getAtomNamespace(id)
```

Arguments

`id`	namespace prefix

Author(s)

Emmanuel Blondel, <emmanuel.blondel1@gmail.com>

Examples

```
getAtomNamespace("GMD")
```

getAtomNamespaces *getAtomNamespaces*

Description

getAtomNamespaces gets the list of namespaces registered

Usage

```
getAtomNamespaces()
```

Author(s)

Emmanuel Blondel, <emmanuel.blondel1@gmail.com>

Examples

```
getAtomNamespaces()
```

getAtomSchemas *getAtomSchemas*

Description

getAtomSchemas gets the schemas registered in **atom4R**

Usage

```
getAtomSchemas()
```

Author(s)

Emmanuel Blondel, <emmanuel.blondel1@gmail.com>

Examples

```
getAtomSchemas()
```

getClassesInheriting *getClassesInheriting*

Description

get the list of classes inheriting a given super class provided by its name

Usage

```
getClassesInheriting(classname, extended, pretty)
```

Arguments

classname	the name of the superclass for which inheriting sub-classes have to be listed
extended	whether we want to look at user namespace for third-party sub-classes
pretty	prettify the output as data.frame

Examples

```
getClassesInheriting("DCElement")
```

getDCMIVocabularies *getDCMIVocabularies*

Description

getDCMIVocabularies allows to get the list of DCMI Vocabularies registered in **atom4R**

Usage

```
getDCMIVocabularies()
```

Author(s)

Emmanuel Blondel, <emmanuel.blondel1@gmail.com>

Examples

```
getDCMIVocabularies()
```

getDCMIVocabulary *getDCMIVocabulary*

Description

`getDCMIVocabulary` allows to get a registered DCMI Vocabulary by id registered in **atom4R**

Usage

```
getDCMIVocabulary(id)
```

Arguments

`id`	identifier of the vocabulary

Author(s)

Emmanuel Blondel, <emmanuel.blondel1@gmail.com>

Examples

```
getDCMIVocabulary(id = "http://purl.org/dc/dcmitype/")
```

readDCEntry *readDCEntry*

Description

`readDCEntry` is a function to read a DC XML entry from a file or url into an object in the **atom4R** model.

Usage

```
readDCEntry(file, url, raw)
```

Arguments

`file`	a valid file path, as object of class `character`
`url`	a valid URL, as object of class `character`
`raw`	indicates if the function should return the raw XML. By default this is set to `FALSE` and the function will try to map the xml data to the **atom4R** data model.

Value

a **atom4R** object inheriting `DCEntry`

Author(s)

Emmanuel Blondel, <emmanuel.blondel1@gmail.com>

Examples

```
dcfile <- paste0(
  "https://raw.githubusercontent.com/eblondel/atom4R/master/",
  "inst/extdata/examples/zenodo_dc_export.xml"
)
dc <- readDCEntry(dcfile)
```

---

registerAtomNamespace *registerAtomNamespace*

Description

`registerAtomNamespace` allows to register a new namespace in **atom4R**

Usage

```
registerAtomNamespace(id, uri, force)
```

Arguments

`id`	prefix of the namespace
`uri`	URI of the namespace
`force`	logical parameter indicating if registration has be to be forced in case the identified namespace is already registered

Author(s)

Emmanuel Blondel, <emmanuel.blondel1@gmail.com>

Examples

```
registerAtomNamespace(id = "myprefix", uri = "http://someuri")
```

registerAtomSchema *registerAtomSchema*

Description

registerAtomSchema allows to register a new schema in **atom4R**

Usage

```
registerAtomSchema(xsdFile)
```

Arguments

xsdFile	the schema XSD file

Author(s)

Emmanuel Blondel, <emmanuel.blondel1@gmail.com>

Examples

```
registerAtomSchema(xsdFile = "https://jvndb.jvn.jp/schema/atom.xsd")
```

setAtomNamespaces *setMetadataNamespaces*

Description

setMetadataNamespaces

Usage

```
setAtomNamespaces()
```

setAtomSchemas *setAtomSchemas*

Description

setAtomSchemas

Usage

```
setAtomSchemas()
```

setDCMIVocabularies *setDCMIVocabularies*

Description

setDCMIVocabularies

Usage

```
setDCMIVocabularies()
```

SwordClient *SwordClient class*

Description

This class models an Sword service client

Format

`R6Class` object.

Details

SwordClient

Value

Object of `R6Class` for modelling an Sword client

Super classes

`atom4R::atom4RLogger` -> `atom4R::AtomPubClient` -> `SwordClient`

Methods

Public methods:

- `SwordClient$new()`
- `SwordClient$getServiceDocument()`
- `SwordClient$getCollectionMembers()`
- `SwordClient$clone()`

Method `new()`**:** This method is to instantiate an Sword Client. By default the version is set to "2".

The `keyring_backend` can be set to use a different backend for storing the SWORD API user token with **keyring** (Default value is 'env').

The `logger` allows to specify the level of log (default is NULL), either "INFO" for **atom4R** logs or "DEBUG" for verbose HTTP client (curl) logs.

Usage:

```
SwordClient$new(
  url,
  version = "2",
  user = NULL,
  pwd = NULL,
  token = NULL,
  logger = NULL,
  keyring_backend = "env"
)
```

Arguments:

`url` url

`version` version. Default is "2"

`user` user

`pwd` pwd

`token` token

`logger` logger

`keyring_backend` keyring backend. Default is 'env'

Method `getServiceDocument()`**:** Get service document

Usage:

```
SwordClient$getServiceDocument(force = FALSE)
```

Arguments:

`force` force Force getting/refreshing of service document

Returns: object of class SwordServiceDocument

Method `getCollectionMembers()`**:** Get collection members. Unimplemented abstract method at SwordClient level

Usage:

```
SwordClient$getCollectionMembers()
```

Method `clone()`**:** The objects of this class are cloneable with this method.

Usage:

```
SwordClient$clone(deep = FALSE)
```

Arguments:

`deep` Whether to make a deep clone.

Note

Abstract class

Author(s)

Emmanuel Blondel <emmanuel.blondel1@gmail.com>

`SwordDataverseClient` *SWORD Dataverse client class*

Description

This class models an Sword service Dataverse-specific API client

Format

`R6Class` object.

Details

SwordDataverseClient

Value

Object of `R6Class` for modelling an Sword Dataverse-specific APIclient

Super classes

`atom4R::atom4RLogger` -> `atom4R::AtomPubClient` -> `atom4R::SwordClient` -> `SwordDataverseClient`

Methods

Public methods:

- `SwordDataverseClient$new()`
- `SwordDataverseClient$getServiceDocument()`
- `SwordDataverseClient$getCollectionMembers()`
- `SwordDataverseClient$getDataverses()`
- `SwordDataverseClient$getDataverse()`
- `SwordDataverseClient$editDataverseEntry()`
- `SwordDataverseClient$getDataverseRecord()`
- `SwordDataverseClient$createDataverseRecord()`
- `SwordDataverseClient$updateDataverseRecord()`
- `SwordDataverseClient$deleteDataverseRecord()`
- `SwordDataverseClient$publishDataverseRecord()`
- `SwordDataverseClient$addFilesToDataverseRecord()`

- SwordDataverseClient$deleteFilesFromDataverseRecord()
- SwordDataverseClient$clone()

Method `new()`**:** This method is to instantiate an Sword API Dataverse-specific Client.

The `keyring_backend` can be set to use a different backend for storing the SWORD DataVerse API user token with **keyring** (Default value is 'env').

The `logger` allows to specify the level of log (default is NULL), either "INFO" for **atom4R** logs or "DEBUG" for verbose HTTP client (curl) logs.

Usage:

```
SwordDataverseClient$new(
  hostname,
  token = NULL,
  logger = NULL,
  keyring_backend = "env"
)
```

Arguments:

`hostname` host name

`token` token

`logger` logger

`keyring_backend` keyring backend. Default is 'env'

Method `getServiceDocument()`**:** Get service document

Usage:

```
SwordDataverseClient$getServiceDocument(force = FALSE)
```

Arguments:

`force` force Force getting/refreshing of service document

Returns: object of class SwordServiceDocument

Method `getCollectionMembers()`**:** Get collection members

Usage:

```
SwordDataverseClient$getCollectionMembers(collectionId)
```

Arguments:

`collectionId` collection ID

Returns: a list of AtomFeed

Method `getDataverses()`**:** Get dataverses. Equivalent to `listCollections()` from AtomPubClient

Usage:

```
SwordDataverseClient$getDataverses(pretty = FALSE)
```

Arguments:

`pretty` prettify output as `data.frame`. Default is `FALSE`

Returns: an object of class `data.frame`

Method `getDataverse()`**:** Get dataverse members by dataverse name. Equivlaent to `getCollectionMembers()`

Usage:

```
SwordDataverseClient$getDataverse(dataverse)
```

Arguments:

`dataverse` dataverse name

Returns: a list of AtomFeed

Method `editDataverseEntry()`**:** Edits a dataverse entry

Usage:

```
SwordDataverseClient$editDataverseEntry(identifier)
```

Arguments:

`identifier` identifier

Returns: an object of class AtomEntry

Method `getDataverseRecord()`**:** Get dataverse record

Usage:

```
SwordDataverseClient$getDataverseRecord(identifier)
```

Arguments:

`identifier` identifier

Returns: an object of class AtomFeed

Method `createDataverseRecord()`**:** Creates a dataverse record

Usage:

```
SwordDataverseClient$createDataverseRecord(dataverse, entry)
```

Arguments:

`dataverse` dataverse name
`entry` entry
`the` created AtomEntry

Method `updateDataverseRecord()`**:** Updates a dataverse record

Usage:

```
SwordDataverseClient$updateDataverseRecord(dataverse, entry, identifier)
```

Arguments:

`dataverse` dataverse name
`entry` entry
`identifier` identifier of the entry to update
`the` created AtomEntry

Method `deleteDataverseRecord()`**:** Deletes a dataverse record

Usage:

```
SwordDataverseClient$deleteDataverseRecord(identifier)
```

Arguments:

`identifier` identifier

Returns: `TRUE` if deleted, or returns an error otherwise

Method `publishDataverseRecord()`**:** Publishes a dataverse record

Usage:

```
SwordDataverseClient$publishDataverseRecord(identifier)
```

Arguments:

`identifier` identifier

Returns: the published AtomEntry

Method `addFilesToDataverseRecord()`**:** Add files to a dataverse record

Usage:

```
SwordDataverseClient$addFilesToDataverseRecord(identifier, files)
```

Arguments:

`identifier` identifier

`files` files

Method `deleteFilesFromDataverseRecord()`**:** Deletes files from a Dataverse record

Usage:

```
SwordDataverseClient$deleteFilesFromDataverseRecord(identifier, files = NULL)
```

Arguments:

`identifier` identifier

`files` files

Returns: an object of class `data.frame` giving each file and it's deletion status

Method `clone()`**:** The objects of this class are cloneable with this method.

Usage:

```
SwordDataverseClient$clone(deep = FALSE)
```

Arguments:

`deep` Whether to make a deep clone.

Author(s)

Emmanuel Blondel <emmanuel.blondel1@gmail.com>

Examples

```
## Not run:
   #connect to SWORD Dataverse API
   SWORD <- SwordDataverseClient$new(
     hostname = "localhost:8085",
     token = "<token>",
     logger = "DEBUG"
```

```
)

#for detailed operations check the wiki at:
#https://github.com/eblondel/atom4R/wiki#atom4R-publish-sword-dataverse

## End(Not run)
```

SwordHalClient *SwordHalClient class*

Description

This class models an Sword service client for HAL (Archives Houvertes)

Format

R6Class object.

Details

SwordHalClient

Value

Object of R6Class for modelling an Sword client

Super classes

atom4R::atom4RLogger -> atom4R::AtomPubClient -> atom4R::SwordClient -> SwordHalClient

Methods

Public methods:

- SwordHalClient$new()
- SwordHalClient$getServiceDocument()
- SwordHalClient$getCollectionMembers()
- SwordHalClient$clone()

Method `new()`**:** This method is to instantiate an Sword HAL (Archive Ouvertes - https://hal.archives-ouvertes.fr/) Client. By default the version is set to "2".

The `keyring_backend` can be set to use a different backend for storing the SWORD API user token with **keyring** (Default value is 'env').

The `logger` allows to specify the level of log (default is NULL), either "INFO" for **atom4R** logs or "DEBUG" for verbose HTTP client (curl) logs.

Usage:

```
SwordHalClient$new(
  url,
  user = NULL,
  pwd = NULL,
  logger = NULL,
  keyring_backend = "env"
)
```

Arguments:

`url` url

`user` user

`pwd` pwd

`logger` logger

`keyring_backend` keyring backend. Default value is 'env'

Method `getServiceDocument()`**:** Get service document

Usage:

```
SwordHalClient$getServiceDocument(force = FALSE)
```

Arguments:

`force` force Force getting/refreshing of service document

Returns: object of class SwordServiceDocument

Method `getCollectionMembers()`**:** Get collection members

Usage:

```
SwordHalClient$getCollectionMembers(collectionId)
```

Arguments:

`collectionId` collection ID

Returns: a list of AtomFeed

Method `clone()`**:** The objects of this class are cloneable with this method.

Usage:

```
SwordHalClient$clone(deep = FALSE)
```

Arguments:

`deep` Whether to make a deep clone.

Note

Experimental

Author(s)

Emmanuel Blondel <emmanuel.blondel1@gmail.com>

SwordServiceDocument *SwordServiceDocument class*

Description

This class models an Sword service document

Format

R6Class object.

Details

SwordServiceDocument

Value

Object of R6Class for modelling an Sword service document

Super class

atom4R::atom4RLogger -> SwordServiceDocument

Public fields

title title

collections collections

Methods

Public methods:

- SwordServiceDocument$new()
- SwordServiceDocument$getTitle()
- SwordServiceDocument$getCollections()
- SwordServiceDocument$clone()

Method new(): Initializes a SwordServiceDocument from XML

Usage:

```
SwordServiceDocument$new(xml, logger = NULL)
```

Arguments:

xml object of class XMLInternalNode-class from **XML**

logger logger

Method getTitle(): Get title

Usage:

```
SwordServiceDocument$getTitle()
```

Returns: object of class `character`

Method `getCollections()`**:** Get collections

Usage:

```
SwordServiceDocument$getCollections()
```

Returns: object of class `character`

Method `clone()`**:** The objects of this class are cloneable with this method.

Usage:

```
SwordServiceDocument$clone(deep = FALSE)
```

Arguments:

`deep` Whether to make a deep clone.

Note

class used internally by **atom4R**

Author(s)

Emmanuel Blondel <emmanuel.blondel1@gmail.com>

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