
MyCapytains Documentation

Release 0.0.1

Thibault Clérice

May 15, 2017

Contents

1	Simple Example of what it does	3
2	Installation and Requirements	5
3	Contents	7
3.1	MyCapytain's Main Objects Explained	7
3.2	Project using MyCapytain	20
3.3	Working with Local CapiTainS XML File	20
3.4	Known issues and recommendations	22
3.5	MyCapytain API Documentation	22
3.6	Benchmarks	146
	Python Module Index	149

MyCapytain is a python library which provides a large set of methods to interact with Text Services API such as the Canonical Text Services, the Distributed Text Services. It also provides a programming interface to exploit local textual resources developed according to the Capitains Guidelines.

Simple Example of what it does

The following code and example is badly displayed at the moment on Github. We recommend you to go to <http://mycapytain.readthedocs.org>

On Leipzig DH Chair's Canonical Text Services API, we can find the Epigrammata of Martial. This texts are identified by the identifier "urn:cts:latinLit:phi1294.phi002.perseus-lat2". We want to have some information about this text so we are gonna ask the API to give its metadata to us :

Listing 1.1: example.py from the Github Repository

```

1 from MyCapytain.resolvers.cts.api import HttpCtsResolver
2 from MyCapytain.retrieveers.cts5 import CTS
3 from MyCapytain.common.constants import Mimetypes
4
5 # We set up a resolver which communicates with an API available in Leipzig
6 resolver = HttpCtsResolver(CTS("http://cts.dh.uni-leipzig.de/api/cts/"))
7 # We require some metadata information
8 textMetadata = resolver.getMetadata("urn:cts:latinLit:phi1294.phi002.perseus-lat2")
9 # Texts in CTS Metadata have one interesting property : its citation scheme.
10 # XmlCtsCitation are embedded objects that carries information about how a text can
    ↳ be quoted, what depth it has
11 print(type(textMetadata), [citation.name for citation in textMetadata.citation])

```

This query will return the following information :

```
<class 'MyCapytain.resources.collections.cts.Text'> ['book', 'poem', 'line']
```

```

12 # Now, we want to retrieve the first line of poem seventy two of the second book
13 passage = resolver.getTextualNode("urn:cts:latinLit:phi1294.phi002.perseus-lat2",
    ↳ subreference="2.72.1")
14 # And we want to have its content exported to plain text and have the siblings of
    ↳ this passage (previous and next line)
15 print(passage.export(Mimetypes.PLAINTEXT), passage.siblingsId)

```

And we will get

```
Hesterna factum narratur, Postume, cena
```

If you want to play more with this, like having a list of what can be found in book three, you could go and do

```
16 poemsInBook3 = resolver.getReffs("urn:cts:latinLit:phi1294.phi002.perseus-lat2",  
17 ↪subreference="3")  
print (poemsInBook3)
```

Which would be equal to :

```
['3.1', '3.2', '3.3', '3.4', '3.5', '3.6', '3.7', '3.8', '3.9', '3.10', '3.11', '3.12'  
↪, '3.13', ...]
```

Now, it's your time to work with the resource ! See the CapiTainS Classes page on ReadTheDocs to have a general introduction to MyCapytain objects !

Installation and Requirements

The best way to install MyCapytain is to use pip. MyCapytain tries to support Python over 3.4.

The work needed for supporting Python 2.7 is mostly done, however, since 2.0.0, we are giving up on ensuring that MyCapytain will be compatible with Python < 3 while accepting PR which would help doing so.

```
pip install MyCapytain
```

If you prefer to use setup.py, you should clone and use the following

```
git clone https://github.com/Capitains/MyCapytain.git
cd MyCapytain
python setup.py install
```


MyCapytain's Main Objects Explained

Exportable Parent Classes

Description

`MyCapytain.common.base.Exportable`

The `Exportable` class is visible all across the library. It provides a common, standardized way to retrieve in an API fashion to what can an object be exported and to exports it. Any exportable object should have an `EXPORT_TO` constant variable and include a `__export__(output, **kwargs)` methods if it provides an export type.

Example

The following code block is a mere example of how to implement `Exportable` and what are its responsibilities. Exportable typically loops over all the parents class of the current class until it find one exportable system matching the required one.

```
1 from MyCapytain.common.constants import Mimetypes
2 from MyCapytain.common.base import Exportable
3
4
5 class Sentence(Exportable):
6     """ This class represent a Sentence
7
8     :param content: Content of the sentence
9     """
10    # EXPORT_TO is a list of Mimetype the object is capable to export to
11    EXPORT_TO = [
12        Mimetypes.PLAINTEXT, Mimetypes.XML.Std
13    ]
14    DEFAULT_EXPORT = Mimetypes.PLAINTEXT
```

```

15
16     def __init__(self, content):
17         self.content = content
18
19     def __export__(self, output=None, **kwargs):
20         """ Export the collection item in the Mimetype required.
21
22         :param output: Mimetype to export to (Uses MyCapytain.common.utils.Mimetypes)
23         :type output: str
24         :return: Object using a different representation
25         """
26         if output == Mimetypes.PLAINTEXT:
27             return self.content
28         elif output == Mimetypes.XML.Std:
29             return "<sentence>{}</sentence>".format(self.content)
30
31
32 class TEISentence(Sentence):
33     """ This class represent a Sentence but adds some exportable accepted output
34
35     :param content: Content of the sentence
36     """
37     EXPORT_TO = [
38         Mimetypes.JSON.Std
39     ]
40
41     def __export__(self, output=None, **kwargs):
42         """ Export the collection item in the Mimetype required.
43
44         :param output: Mimetype to export to (Uses MyCapytain.common.utils.Mimetypes)
45         :type output: str
46         :return: Object using a different representation
47         """
48         if output == Mimetypes.JSON.Std:
49             return {"http://www.tei-c.org/ns/1.0/sentence": self.content}
50         elif output == Mimetypes.XML.Std:
51             return "<sentence xmlns='http://www.tei-c.org/ns/1.0'>{}</sentence>".
↪format(self.content)
52
53
54 s = Sentence("I love Martial's Epigrammatas")
55 print(s.export(Mimetypes.PLAINTEXT))
56 # I love Martial's Epigrammatas
57 print(s.export()) # Defaults to PLAINTEXT
58 # I love Martial's Epigrammatas
59 print(s.export(Mimetypes.XML.Std))
60 # <sentence>I love Martial's Epigrammatas</sentence>
61
62 tei = TEISentence("I love Martial's Epigrammatas")
63 print(tei.export(Mimetypes.PLAINTEXT))
64 # I love Martial's Epigrammatas
65 print(tei.export()) # Defaults to PLAINTEXT
66 # I love Martial's Epigrammatas
67 print(tei.export(Mimetypes.JSON.Std))
68 # {"http://www.tei-c.org/ns/1.0/sentence": I love Martial's Epigrammatas}
69 print(tei.export(Mimetypes.XML.Std)) # Has been rewritten by TEISentence
70 # <sentence xmlns="http://www.tei-c.org/ns/1.0">I love Martial's Epigrammatas</
↪sentence>

```

```

71 try:
72     print (tei.export (Mimetypes.XML.RDF) )
73 except NotImplementedError as error:
74     print (error)
75 # Raise the error and prints "Mimetype application/rdf+xml has not been implemented_
↳for this resource"

```

Retrievers

MyCapytain.retrieveers.prototypes.API

Description

Retrievers are classes that help build requests to API and return standardized responses from them. There is no real perfect prototypes. The only requirements for a Retriever is that its query function should returns string only. It is not the role of the retrievers to parse response. It is merely to facilitate the communication to remote API most of the time.

Recommendations

For Textual API, it is recommended to implement the following requests

- `getTextualNode(textId[str], subreference[str], prevnext[bool], metadata[bool])`
- `getMetadata(objectId[str], **kwargs)`
- `getSiblings(textId[str], subreference[str])`
- `getReffs(textId[str], subreference[str], depth[int])`

Example of implementation : CTS 5

MyCapytain.retrieveers.cts5.HttpCtsRetriever

```

1 from MyCapytain.retrieveers.cts5 import HttpCtsRetriever
2
3 # We set up a retriever which communicates with an API available in Leipzig
4 retriever = HttpCtsRetriever("http://cts.dh.uni-leipzig.de/api/cts/")
5 # We require a passage : passage is now a Passage object
6 passage = retriever.getPassage("urn:cts:latinLit:phil294.phil002.perseus-lat2:1.1")
7 # Passage is now equal to the string content of http://cts.dh.uni-leipzig.de/api/cts/?
↳request=GetPassage&urn=urn:cts:latinLit:phil294.phil002.perseus-lat2:1.1
8 print (passage)
9
10 """
11 <GetPassage><request><requestName>GetPassage</requestName><requestUrn>
↳urn:cts:latinLit:phil294.phil002.perseus-lat2:1.1</requestUrn></request>
12 <reply><urn>urn:cts:latinLit:phil294.phil002.perseus-lat2:1.1</urn><passage><TEI>
13 <text n="urn:cts:latinLit:phil294.phil002.perseus-lat2" xml:id="stoa0045.stoa0"><body>
14 <div type="edition" n="urn:cts:latinLit:phil294.phil002.perseus-lat2" xml:lang="lat">
15 <div type="textpart" subtype="book" n="1"><div type="textpart" subtype="poem" n="1">
16 <head>I</head>
17 <l n="1">Hic est quem legis ille, quem requiris, </l>
18 <l n="2">Toto notus in orbe Martialis </l>
19 <l n="3">Argutis epigrammaton libellis: <pb/></l>

```

```
20 <l n="4">Cui, lector studiose, quod dedisti </l>
21 <l n="5">Viventi decus atque sentienti, </l>
22 <l n="6">Rari post cineres habent poetae. </l>
23 </div></div></body></text></TEI></passage></reply>
24 ""
```

Text and Passages

Description

Hierarchy

The generic idea of both Text and Passage's classes is that they inherit from a longer trail of text bearing object that complexified over different features. The basic is

- *TextualElement* is an object which can bear Metadata and Collection information. It has a `.text` property and is exportable
- *TextualNode* inherits from *NodeId* and unlike *TextualElement*, *TextualNode* is part of a graph of *CitableObject*. It bears informations about its siblings, parents, children.
- *TextualGraph* is a bit interactive : you can query for children nodes and get descendant references of the object.
- *InteractiveTextualNode* is completely interactive . You can browse the graph by accessing the `.next` property for example : it should then return an *InteractiveTextualNode* as well
- *CtsNode* has two unique methods more as well as a `urn` property.
- From *CtsNode* we find *CitableText* and *Passage*, which represents complete and portion of a Text. The main difference is that *CitableText* has no parents, no siblings.

Fig. 3.1: Prototype of Texts from `:module:'MyCapytain.resources.prototypes.text'`. *NodeId* and *Exportable* are respectively from `:module:'MyCapytain.common.reference'` and `:module:'MyCapytain.common.base'`.

Objectives

Text and Passages object have been built around *InteractiveTextualNode* which fills the main purpose of MyCapytain :being able to interact with citable, in-graph texts that are retrieve through web API or local files. Any implementation should make sure that the whole set of navigation tool are covered. Those are :

Tree Identifiers(Returns str Identifiers)	Tree Navigations (Returns InteractiveTextualNode or children class)	Retrieval Methods	Other
prevId	prev	.getTextualNode(subreference)	id : TextualNode Identifier [str]
nextId	nextId	.getReference(subreference[optional])	metadata : Metadata [Metadata]
siblingsId [tuple[str]]	siblings [tuple[InteractiveTextualNode]]		
parentId	parent		citation : Citation Information [Citation]
childIds [list[str]]	children [list[InteractiveTextualNode]]		text : String Representation of the text without annotation
firstId	first		.export()
lastId	last		

The base module

The base module contains special implementations : they technically do not support interactive methods but provides generic parsing and export methods for specific type of contents such as TEI XML object or other formats such as json, csv, treebank objects in the future.

The TEIResource for example requires the object to be set up with a resource parameters that will be furtherparsed using lxml. From there, it provides export such as plain/text, TEI XML, nested dictionaries or even anxml etree interface.

Implementation example : HTTP API Passage work

```

1 from MyCapytain.retrievers.cts5 import HttpCtsRetriever
2 from MyCapytain.resources.texts.remote.cts import CtsText
3
4 # We set up a retriever which communicates with an API available in Leipzig
5 retriever = HttpCtsRetriever("http://cts.dh.uni-leipzig.de/api/cts/")
6
7 # Given that we have other examples that shows how to work with text,
8 # we will focus here on playing with the graph functionality of texts implementations.
9 # We are gonna retrieve a text passage and the retrieve all its siblings in different
10 ↪fashion#
11 # The main point is to find all children of the same parent.
12 # The use case could be the following : some one want to retrieve the full text
13 ↪around a citation
14 # To enhance the display a little.
15
16 # We will work with the line 7 of poem 39 of book 4 of Martial's Epigrammata
17 # The text is urn:cts:latinLit:phil294.phi002.perseus-lat2
18 text = CtsText(retriever=retriever, urn="urn:cts:latinLit:phil294.phi002.perseus-lat2
19 ↪")
20
21 # We retrieve up the passage
22 target = text.getTextualNode(subreference="4.39.7")
23 print(target.text)
24 """
25 Nec quae Callaico linuntur auro,

```

```

23  """
24
25  # The parent way :
26  # - get to the parent,
27  # - retrieve each node,
28  # - print only the one which are not target
29
30  parent = target.parent
31  for node in parent.children:
32      if node.id != target.id:
33          print("{}\t{}".format(node.id, node.text))
34      else:
35          print("-----Original Node-----")
36
37  """
38  4.39.1      Argenti genus omne comparasti,
39  4.39.2      Et solus veteres Myronos artes,
40  4.39.3      Solus Praxitelus manum Scopaeque,
41  4.39.4      Solus Phidiaci toreuma caeli,
42  4.39.5      Solus Mentoreos habes labores.
43  4.39.6      Nec desunt tibi vera Gratiana,
44  -----Original Node-----
45  4.39.8      Nec mensis anaglypta de paternis.
46  4.39.9      Argentum tamen inter omne miror
47  4.39.10     Quare non habeas, Charine, purum.
48  """
49
50  print("\n\nSecond Method\n\n")
51
52  # We are gonna do another way this time :
53  # - get the previous until we change parent
54  # - get the next until we change parent
55
56  parentId = node.parentId
57  # Deal with the previous ones
58  current = target.prev
59  while current.parentId == parentId:
60      print("{}\t{}".format(current.id, current.text))
61      current = current.prev
62
63  print("-----Original Node-----")
64
65  # Deal with the next ones
66  current = target.next
67  while current.parentId == parentId:
68      print("{}\t{}".format(current.id, current.text))
69      current = current.next
70
71  """
72  4.39.6      Nec desunt tibi vera Gratiana,
73  4.39.5      Solus Mentoreos habes labores.
74  4.39.4      Solus Phidiaci toreuma caeli,
75  4.39.3      Solus Praxitelus manum Scopaeque,
76  4.39.2      Et solus veteres Myronos artes,
77  4.39.1      Argenti genus omne comparasti,
78  -----Original Node-----
79  4.39.8      Nec mensis anaglypta de paternis.
80  4.39.9      Argentum tamen inter omne miror
81  4.39.10     Quare non habeas, Charine, purum.

```


81
82

"""

Other Example

See `MyCapytain.resources.texts.local`

Collection

Description

Collections are the metadata containers object in MyCapytain. Unlike other object, they will never contain textual content such as Texts and Passages but will in return help you browse through the catalog of one APIs collection and identify manually or automatically texts that are of relevant interests to you.

The main information that you should be interested in are :

- Collections are children from Exportable. As of 2.0.0, any collection can be exported to JSON DTS.
- Collections are built on a hierarchy. They have children and descendants
- Collections have identifiers and title (Main name of what the collection represents : if it's an author, it's her name, a title for a book, a volume label for a specific edition, etc.)
- Collections can inform the machine if it represents a readable object : if it is readable, it means that using its identifier, you can query for passages or references on the same API.

Main Properties

- `Collection().id` : Identifier of the object
- `Collection().get_label(lang[Optional])` : Title of the object
- `Collection().readable` : If True, means that the `Collection().id` can be used in `GetReffs` or `GetTextualNode` queries
- `Collection().members` : Direct children of the object
- `Collection().descendants` : Direct and Indirect children of the objects
- `Collection().readableDescendants` : Descendants that have `.readable` as True
- `Collection().export()` : Export Method
- `Collection().metadata` : Metadata object that contain flat descriptive localized information about the object.

Implementation : CTS Collections

Note: For a recap on what Textgroup means or any CTS jargon, go to <http://capitains.github.io/pages/vocabulary>

CTS Collections are divided in 4 kinds : `TextInventory`, `TextGroup`, `Work`, `Text`. Their specificity is that the hierarchy of these objects are predefined and always follow the same order. They implement a special export (`MyCapytain.common.constants.Mimetypes.XML.CTS`) which basically exports to the XML Text Inventory Format that one would find making a `GetCapabilities` request.

CapiTainS CTS Collections implement a parents property which represent a list of parents where .parents' order is equal to `Text.parents = [Work(), TextGroup(), TextInventory()]`.

Their finale implementation accepts to parse resources through the `resource=` named argument.

Example

```
1 from MyCapytain.retrievers.cts5 import HttpCtsRetriever
2 from MyCapytain.resources.collections.cts import XmlCtsTextInventoryMetadata, \
  ↪ XmlCtsWorkMetadata
3 from MyCapytain.common.constants import Mimetypes
4 from pprint import pprint
5
6 """
7 In order to have a real life example,
8 we are gonna query for data in the Leipzig CTS API
9 We are gonna query for metadata about Seneca who
10 is represented by urn:cts:latinLit:stoa0255
11
12 To retrieve data, we are gonna make a GetMetadata query
13 to the CTS Retriever.
14 """
15 retriever = HttpCtsRetriever("http://cts.dh.uni-leipzig.de/api/cts/")
16 # We store the response (Pure XML String)
17 response = retriever.getMetadata(objectId="urn:cts:latinLit:stoa0255")
18
19 """
20 From here, we actually have the necessary data, we can now
21 play with collections. TextInventory is the main collection type that is needed to
22 parse the whole response.
23 """
24 inventory = XmlCtsTextInventoryMetadata.parse(resource=response)
25 # What we are gonna do is print the title of each descendant :
26 for descendant in inventory.descendants:
27     # Metadatum resolve any non-existing language ("eng", "lat") to a default one
28     # Putting default is just making that clear
29     print(descendant.get_label())
30
31 """
32 You should see in there things such as
33 - "Seneca, Lucius Annaeus" (The TextGroup or main object)
34 - "de Ira" (The Work object)
35 - "de Ira, Moral essays Vol 2" (The Edition specific Title)
36
37 We can now see other functions, such as the export to JSON DTS.
38 Collections have a unique feature built in : they allow for
39 accessing an item using its key as if it were a dictionary :
40 The identifier of a De Ira is urn:cts:latinLit:stoa0255.stoa0110
41 """
42 deIra = inventory["urn:cts:latinLit:stoa0255.stoa010"]
43 assert isinstance(deIra, XmlCtsWorkMetadata)
44 pprint(deIra.export(output=Mimetypes.JSON.DTS.Std))
45 # you should see a DTS representation of the work
46
47 """
48 What we might want to do is to browse metadata about seneca's De Ira
49 Remember that CtsCollections have a parents attribute !
```

```

50 """
51 for descAsc in deIra.descendants + [deIra] + deIra.parents:
52     # We filter out Textgroup which has an empty Metadata value
53     if not isinstance(descAsc, HttpCtsRetriever):
54         print(
55             descAsc.metadata.export(output=Mimetypes.JSON.Std)
56         )
57 """
58 And of course, we can simply export deIra to CTS XML format
59 """
60 print(deIra.export(Mimetypes.XML.CTS))

```

Dispatchers

Description

Dispatcher are tools to be used to organize semi-automatically resources, most likely in the context of a resolver retrieving data from local directories.

Dispatcher has following properties :

- methods -> [tuple(Callable()->Bool, str)]
- add(func[Callable()], inventory_name[str])
- inventory(inventory_name[str]) -> @decorator
- dispatch(collection[Collection, **kwargs])

Implementation

```

class MyCapytain.resolvers.utils.CollectionDispatcher(collection,
                                                    de-
                                                    fault_inventory_name=None)

```

Collection Dispatcher provides a utility to divide automatically texts and collections into different collections

Parameters

- **collection** – The root collection
- **default_inventory_name** – The default name of the default collection

add (func, inventory_name)

Register given function as a filter.

If this function “func” returns True when given an object, said object will be dispatched to Collection(inventory_name)

Parameters

- **func** – Callable
- **inventory_name** – Identifier of the collection to dispatch to

dispatch (collection, **kwargs)

Dispatch a collection using internal filters

Parameters

- **collection** – Collection object
- **kwargs** – Additional keyword arguments that could be used by internal filters

Returns None

Raises

inventory (*inventory_name*)

Decorator to register filters for given inventory. For a function “abc”, it has the same effect

Parameters *inventory_name* –

Returns

```
tic = CtsTextInventoryCollection()
latin = CtsTextInventoryMetadata("urn:perseus:latinLit", parent=tic)
latin.set_label("Classical Latin", "eng")
dispatcher = CollectionDispatcher(tic)

@dispatcher.inventory("urn:perseus:latinLit")
def dispatchLatinLit(collection, path=None, **kwargs):
    if collection.id.startswith("urn:cts:latinLit:"):
        return True
    return False
```

methods

List of methods to dispatch resources.

Each element is a tuple with two elements :

- First one is the inventory identifier to dispatch to
- Second one is a function which, if returns true, will activate dispatching to given

Return type List

Example

```
1 from MyCapytain.resolvers.cts.local import CtsCapitainsLocalResolver
2 from MyCapytain.resolvers.utils import CollectionDispatcher
3 from MyCapytain.common.constants import Mimetypes
4 from MyCapytain.resources.collections.cts import XmlCtsTextInventoryMetadata
5 from MyCapytain.resources.prototypes.cts.inventory import CtsTextInventoryCollection
6
7 # We set up a main collection
8 tic = CtsTextInventoryCollection()
9 # We register sub collection we want to dispatch to
10 latin = XmlCtsTextInventoryMetadata("urn:perseus:latinLit", parent=tic)
11 latin.set_label("Classical Latin", "eng")
12 farsi = XmlCtsTextInventoryMetadata("urn:perseus:farsiLit", parent=tic)
13 farsi.set_label("Farsi", "eng")
14 gc = XmlCtsTextInventoryMetadata("urn:perseus:greekLit", parent=tic)
15 gc.set_label("Ancient Greek", "eng")
16 gc.set_label("Grec Ancien", "fre")
17
18 # We create the dispatcher with the root collection
19 dispatcher = CollectionDispatcher(tic)
20
21 # And we record function for each given repository
22 # We could have two function dispatching for the same repository !
23 @dispatcher.inventory("urn:perseus:latinLit")
24 def dispatchLatinLit(collection, path=None, **kwargs):
```

```

25     if collection.id.startswith("urn:cts:latinLit"):
26         return True
27     return False
28
29 @dispatcher.inventory("urn:perseus:farsiLit")
30 def dispatchFarsiLit(collection, path=None, **kwargs):
31     if collection.id.startswith("urn:cts:farsiLit"):
32         return True
33     return False
34
35 @dispatcher.inventory("urn:perseus:greekLit")
36 def dispatchGreekLit(collection, path=None, **kwargs):
37     if collection.id.startswith("urn:cts:greekLit"):
38         return True
39     return False
40
41 # We set up a resolver which parses local file
42 NautilusDummy = CtsCapitainsLocalResolver(
43     resource=[
44         "./tests/testing_data/latinLit2"
45     ],
46     # We give it the dispatcher
47     dispatcher=dispatcher
48 )
49
50 # If we want to read the main repository, we will have all children
51 all = NautilusDummy.getMetadata()
52
53 print(len(all.readableDescendants)) # 25 is the number of edition and translation
54 print([m.id for m in all.members]) # Direct members are dispatched-in collections
55 print(
56     all["urn:cts:latinLit:phil294"] == all["urn:perseus:latinLit"] [
57     ↪ "urn:cts:latinLit:phil294"]
58 ) # Is true because they are dispatched this way
59
60 try:
61     all["urn:perseus:greekLit"] ["urn:cts:latinLit:phil294"]
62 except KeyError:
63     print("But this won't work because the object has been dispatched to latinLit !")
64
65 print(len(all["urn:perseus:greekLit"].readableDescendants)) # Is 6 because there is
66 ↪ 6 recorded texts in __cts__
67 print(len(all["urn:perseus:latinLit"].readableDescendants)) # Is 19 because there is
68 ↪ 6 recorded texts in __cts__

```

Resolvers

Description

Resolvers were introduced in 2.0.0b0 and came as a solution to build tools around Text Services APIs where you can seamlessly switch a resolver for another and not changing your code, join together multiple resolvers, etc. The principle behind resolver is to provide native python object based on API-Like methods which are restricted to four simple commands :

- `getTextualNode(textId[str], subreference[str], prevnext[bool], metadata[bool]) -> Passage`

- `getMetadata(objectId[str], **kwargs) -> Collection`
- `getSiblings(textId[str], subreference[str]) -> tuple([str, str])`
- `getReffs(textId[str], subreference[str], depth[int]) -> list([str])`

These function will always return objects derived from the major classes, *i.e.* Passage and Collection for the two firsts and simple collections of strings for the two others. Resolvers fills the hole between these base objects and the original retriever objects that were designed to return plain strings from remote or local APIs.

The base functions are represented in the prototype, and only `getMetadata` might be expanded in terms of arguments depending on what filtering can be offered. Though, any additional filter has not necessarily effects with other resolvers.

Historical Perspective

The original incentive to build resolvers was the situation with retrievers, in the context of the Nautilus API and Nemo UI : Nemo took a retriever as object, which means that, based on the prototype, Nemo was retrieving string objects. That made sense as long as Nemo was running with HTTP remote API because it was actually receiving string objects which were not even (pre-)processed by the Retriever object. But since Nautilus was developed (a fully native python CTS API), we had the situation where Nemo was parsing strings that were exported from python etree objects by Nautilus which parsed strings. Introducing Resolvers, we managed to avoid this double parsing effect in any situation : MyCapytain now provides a default class to provide access to querying text no matter what kind of transactions there is behind the Python object. At the same time, Resolvers provide a now unified system to retrieve texts independently from the retrieverstandard type (CTS, DTS, Proprietary, etc.).

Prototype

class `MyCapytain.resolvers.prototypes.Resolver`

Resolver provide a native python API which returns python objects.

Initiation of resolvers are dependent on the implementation of the prototype

getMetadata (*objectId=None, **filters*)

Request metadata about a text or a collection

Parameters

- **objectId** (*str*) – Object Identifier to filter on
- **filters** (*dict*) – Kwarg parameters.

Returns Collection

getReffs (*textId, level=1, subreference=None*)

Retrieve the siblings of a textual node

Parameters

- **textId** (*str*) – CtsTextMetadata Identifier
- **level** (*int*) – Depth for retrieval
- **subreference** (*str*) – CapitainsCtsPassage Reference

Returns List of references

Return type [str]

getSiblings (*textId, subreference*)

Retrieve the siblings of a textual node

Parameters

- **textId** (*str*) – CtsTextMetadata Identifier
- **subreference** (*str*) – CapitainsCtsPassage Reference

Returns Tuple of references**Return type** (*str*, *str*)**getTextualNode** (*textId*, *subreference=None*, *prevnext=False*, *metadata=False*)

Retrieve a text node from the API

Parameters

- **textId** (*str*) – CtsTextMetadata Identifier
- **subreference** (*str*) – CapitainsCtsPassage Reference
- **prevnext** (*boolean*) – Retrieve graph representing previous and next passage
- **metadata** (*boolean*) – Retrieve metadata about the passage and the text

Returns CapitainsCtsPassage**Return type** *CapitainsCtsPassage***Example**

```

1 from MyCapytain.resolvers.cts.api import HttpCtsResolver
2 from MyCapytain.retrievers.cts5 import HttpCtsRetriever
3 from MyCapytain.common.constants import Mimetypes, XPATH_NAMESPACES
4
5 # We set up a resolver which communicates with an API available in Leipzig
6 resolver = HttpCtsResolver(HttpCtsRetriever("http://cts.dh.uni-leipzig.de/api/cts"))
7 # We require a passage : passage is now a Passage object
8 # This is an entry from the Smith Myth Dictionary
9 # The inner methods will resolve to the URI http://cts.dh.uni-leipzig.de/api/cts?
10 ↪request=GetPassage&urn=urn:cts:pdlrefwk:viaf88890045.003.perseus-eng1:A.abaeus_1
11 # And parse it into interactive objects
12 passage = resolver.getTextualNode("urn:cts:pdlrefwk:viaf88890045.003.perseus-eng1",
13 ↪"A.abaeus_1")
14 # We need an export as plaintext
15 print(passage.export(
16     output=Mimetypes.PLAINTEXT
17 ))
18 """
19     Abaeus ( βαιο ), a surname of Apollo
20     derived from the town of Abae in Phocis, where the god had a rich temple.
21     ↪(Hesych. s. v.
22     βαιο ; Hdt. 8.33 ; Paus. 10.35.1 , &c.) [ L.S ]
23 """
24 # We want to find bibliographic information in the passage of this dictionary
25 # We need an export as LXML ETREE object to perform XPath
26 print(
27     passage.export(
28         output=Mimetypes.PYTHON.ETREE
29         ).xpath("//tei:bibl/text()", namespaces=XPATH_NAMESPACES, magic_string=False)
30 )
31 ["Hdt. 8.33", "Paus. 10.35.1"]

```

Project using MyCapytain

If you are using MyCapytain and wish to appear here, please feel free to open an [issue](#)

Extensions

Nautilus

Nautilus provides a local retriever to build inventory based on a set of folders available locally.

Flask Capitains Nemo

Flask Capitains Nemo is an extension for Flask to build a browsing interface using both retrievers and resources modules. You will find example of use in a web based environment.

HookTest

HookTest is a library and command line tools for checking resources against the Capitains Guidelines You'll find uses mainly in `units.py`

CLTK Corpora Converter

Capitains Corpora Converter Converts CapiTainS-based Repository (<http://capitains.github.io>) to JSON for CLTK

Working with Local CapiTainS XML File

Introduction

The class `MyCapytain.resources.texts.locals.tei.Text` requires the guidelines of Capitains to be implemented in your file.

Example

```
1 # We import the correct classes from the local module
2 from MyCapytain.resources.texts.local.capitains.cts import CapitainsCtsText
3 from MyCapytain.common.constants import Mimetypes, XPATH_NAMESPACES
4 from lxml.etree import tostring
5
6 # We open a file
7 with open("./tests/testing_data/examples/text.martial.xml") as f:
8     # We initiate a Text object giving the IO instance to resource argument
9     text = CapitainsCtsText(resource=f)
10
11 # Text objects have a citation property
12 # len(Citation(...)) gives the depth of the citation scheme
13 # in the case of this sample, this would be 3 (Book, Poem, Line)
14 for ref in text.getReffs(level=len(text.citation)):
15     # We retrieve a Passage object for each reference that we find
```



```

16 # We can pass the reference many way, including in the form of a list of strings
17 # We use the _simple parameter to get a fairly simple object
18 # Simple makes a straight object that has only the targeted node inside of it
19 psg = text.getTextualNode(subreference=ref, simple=True)
20 # We print the passage from which we retrieve <note> nodes
21 print("\\t".join([ref, psg.export(Mimetypes.PLAINTEXT, exclude=["tei:note"])]))
22
23 """
24 You'll print something like the following :
25
26 1.pr.1      Spero me secutum in libellis meis tale temperamen-
27 1.pr.2      tum, ut de illis queri non possit quisquis de se bene
28 1.pr.3      senserit, cum salva infimarum quoque personarum re-
29 1.pr.4      verentia ludant; quae adeo antiquis auctoribus defuit, ut
30 1.pr.5      nominibus non tantum veris abusi sint, sed et magnis.
31 1.pr.6      Mihi fama vilis constet et probetur in me novissimum
32
33 """
34
35 # It is possible that what you're interested in is a little more complex
36 # Like for example, getting a specific text sample with a specific reference
37 # In TEI !
38
39 # We open another such as Cicero's texts !
40 with open("./tests/testing_data/examples/text.cicero.xml") as f:
41     # We initiate a Text object giving the IO instance to resource argument
42     text = CapitainsCtsText(resource=f)
43     # We are specifically interest in the portion 28-30
44     # Note that we won't use 28-30 as cross passage reference won't work properly
45     p28_29 = text.getTextualNode("28-29")
46
47     # And we want to be able to work with the xml
48     # To be injected in a third party API for lemmatization purposes
49     xml = p28_29.export(Mimetypes.XML.Std)
50     print("XML of 28-29")
51     print(xml)
52     print("-----")
53
54     # But what we really want to do, is suppress the note from the XML.
55     # So we export to an LXML Object
56     document = p28_29.export(Mimetypes.PYTHON.ETREE)
57     # We remove some XML
58     for element in document.xpath("//tei:note", namespaces=XPATH_NAMESPACES):
59         element.getparent().remove(element)
60     # And we print using LXML constants
61     print("Clean XML of 28-29")
62     print(tostring(document, encoding=str))
63     print("-----")
64

```

Known issues and recommendations

XPath Issues

lxml, which is the package powering xml support here, does not accept XPath notations such as `/div/(a or b)[@n]`. Solution for this edge case is `/div/*[self::a or self::b][@n]`

MyCapytain API Documentation

Utilities, metadata and references

Module common contains tools such as a namespace dictionary as well as cross-implementation objects, like URN, Citations...

Base

class `MyCapytain.common.base.Exportable` (*args, **kwargs)

Objects that supports Export

Variables `EXPORT_TO` – List of Mimetypes the resource can export to

export (output=None, **kwargs)

Export the collection item in the Mimetype required.

Parameters `output` (*str*) – Mimetype to export to (Uses `MyCapytain.common.utils.Mimetypes`)

Returns Object using a different representation

export_capacities

List Mimetypes that current object can export to

Constants

class `MyCapytain.common.constants.Mimetypes`

Mimetypes constants that are used to provide export functionality to base MyCapytain object.

Variables

- **JSON** – JSON Resource mimetype
- **XML** – XML Resource mimetype
- **PYTHON** – Python Native Object
- **PLAINTEXT** – Plain string format

class `JSON`

Json Mimetype

Variables

- **Std** – Standard JSON Export
- **CTS** – CTS Json Export

class DTS

JSON DTS Expression

Variables

- **Std** – Standard DTS Json-LD Expression
- **NoParents** – DTS Json-LD Expression without parents expression

class `Mimetypes.PYTHON`

Python Native Objects

Variables

- **NestedDict** – Nested Dictionary Object
- **ETREE** – Python LXML Etree Object

class `MyCapytain`

MyCapytain Objects

Variables **ReadableText** – `MyCapytain.resources.prototypes.text.CitableText`**class `Mimetypes.XML`**

XML Mimetype

Variables

- **Std** – Standard XML Export
- **RDF** – RDF XML Expression Export
- **CTS** – CTS API XML Expression Export
- **TEI** – TEI XML Expression Export

class `CapiTainS`

CapiTainS Guideline XML Structured metadata

class `MyCapytain.common.constants.RDF_NAMESPACES`

Namespaces Constants used to provide Namespace capacities across the library

Variables

- **CTS** – CTS Namespace
- **TEI** – TEI Namespace
- **DC** – DC Elements
- **CAPITAINS** – CapiTainS Ontology

`MyCapytain.common.constants.XPATH_NAMESPACES = {'xsd': 'http://www.w3.org/2001/XMLSchema#', 'tei': 'http://v``List of XPath Namespaces used in guidelines`

URN, References and Citations

class `MyCapytain.common.reference.NodeId` (*identifier=None, children=None, parent=None, siblings=(None, None), depth=None*)

Collection of directional references for a Tree

Parameters

- **identifier** (*str*) – Current object identifier
- **children** (*[str]*) – Current node Children's Identifier
- **parent** (*str*) – Parent of the current node

- **siblings** (*str*) – Previous and next node of the current node
- **depth** (*int*) – Depth of the node in the global hierarchy of the text tree

childIds

Children Node

Return type *[str]*

depth

Depth of the node in the global hierarchy of the text tree

Return type *int*

firstId

First child Node

Return type *str*

id

Current object identifier

Return type *str*

lastId

Last child Node

Return type *str*

nextId

Next Node (Sibling)

Return type *str*

parentId

Parent Node

Return type *str*

prevId

Previous Node (Sibling)

Return type *str*

siblingsId

Siblings Node

Return type (*str, str*)

class `MyCapytain.common.reference.URN` (*urn*)

A URN object giving all useful sections

Parameters `urn` (*str*) – A CTS URN

Variables

- **NAMESPACE** – Constant representing the URN until its namespace
- **TEXTGROUP** – Constant representing the URN until its textgroup
- **WORK** – Constant representing the URN until its work
- **VERSION** – Constant representing the URN until its version
- **PASSAGE** – Constant representing the URN until its full passage
- **PASSAGE_START** – Constant representing the URN until its passage (end excluded)

- **PASSAGE_END** – Constant representing the URN until its passage (start excluded)
- **NO_PASSAGE** – Constant representing the URN until its passage excluding its passage
- **COMPLETE** – Constant representing the complete URN

Example

```
>>> a = URN(urn="urn:cts:latinLit:phi1294.phi002.perseus-lat2:1.1")
```

URN object supports the following magic methods : len(), str() and eq(), gt() and lt().

Example

```
>>> b = URN("urn:cts:latinLit:phi1294.phi002")
>>> a != b
>>> a > b # It has more member. Only member count is compared
>>> b < a
>>> len(a) == 5 # Reference is not counted to not induce count
↳ equivalencies with the optional version
>>> len(b) == 4
```

static model ()

Generate a standard dictionary model for URN inside function

Returns Dictionary of CTS elements

namespace

CTS Namespace element of the URN

Return type str

Returns Namespace part of the URN

reference

Reference element of the URN

Return type Reference

Returns Reference part of the URN

textgroup

Textgroup element of the URN

Return type str

Returns Textgroup part of the URN

upTo (key)

Returns the urn up to given level using URN Constants

Parameters key (int) – Identifier of the wished resource using URN constants

Returns String representation of the partial URN requested

Return type str

Example

```
>>> a = URN(urn="urn:cts:latinLit:phi1294.phi002.perseus-lat2:1.1
↳ ")
>>> a.upTo(URN.TEXTGROUP) == "urn:cts:latinLit:phi1294"
```

urn_namespace

General Namespace element of the URN

Return type `str`

Returns Namespace part of the URN

version

Version element of the URN

Return type `str`

Returns Version part of the URN

work

CtsWorkMetadata element of the URN

Return type `str`

Returns CtsWorkMetadata part of the URN

class `MyCapytain.common.reference.Reference` (*reference*='')
A reference object giving information

Parameters **reference** (*basestring*) – CapitainsCtsPassage Reference part of a Urn

Example

```
>>> a = Reference(reference="1.1@Achiles[1]-1.2@Zeus[1]")
>>> b = Reference(reference="1.1")
>>> Reference("1.1-2.2.2").highest == ["1", "1"]
```

Reference object supports the following magic methods : `len()`, `str()` and `eq()`.

Example

```
>>> len(a) == 2 && len(b) == 1
>>> str(a) == "1.1@Achiles[1]-1.2@Zeus[1]"
>>> b == Reference("1.1") && b != a
```

Note: While `Reference(...).subreference` and `.list` are not available for range, `Reference(..).start.subreference` and `Reference(..).end.subreference` as well as `.list` are available

static `convert_subreference` (*word*, *counter*)

Convert a word and a counter into a standard tuple representation

Parameters

- **word** – Word Element of the subreference
- **counter** – Index of the Word

Returns Tuple representing the element

Return type (`str`, `int`)

end

Quick access property for reference end list

Return type *Reference*

highest

Return highest reference level

For references such as 1.1-1.2.8, with different level, it can be useful to access to the highest node in the hierarchy. In this case, the highest level would be 1.1. The function would return ["1", "1"]

Note: By default, this property returns the start level

Return type *Reference*

list

Return a list version of the object if it is a single passage

Note: Access to start list and end list should be done through `obj.start.list` and `obj.end.list`

Return type [str]

parent

Parent of the actual URN, for example, 1.1 for 1.1.1

Return type *Reference*

start

Quick access property for start list

Return type *Reference*

subreference

Return the subreference of a single node reference

Note: Access to start and end subreference should be done through `obj.start.subreference` and `obj.end.subreference`

Return type (str, int)

class `MyCapytain.common.reference.Citation` (*name=None, xpath=None, scope=None, refsDecl=None, child=None*)

A citation object gives informations about the scheme

Parameters

- **name** (*basestring*) – Name of the citation (e.g. “book”)
- **xpath** (*basestring*) – Xpath of the citation (As described by CTS norm)
- **scope** – Scope of the citation (As described by CTS norm)
- **refsDecl** (*basestring*) – refsDecl version
- **child** (*Citation*) – A citation

Variables

- **name** – Name of the citation (e.g. “book”)
- **xpath** – Xpath of the citation (As described by CTS norm)
- **scope** – Scope of the citation (As described by CTS norm)
- **refsDecl** – refsDecl version
- **child** – A citation

`__iter__()`

Iteration method

Loop over the citation childs

Example

```
>>> c = XmlCtsCitation(name="line")
>>> b = XmlCtsCitation(name="poem", child=c)
>>> a = XmlCtsCitation(name="book", child=b)
>>> [e for e in a] == [a, b, c]
```

`__len__()`

Length method

Return type `int`

Returns Number of nested citations

fill (*passage=None, xpath=None*)

Fill the xpath with given informations

Parameters

- **passage** (*Reference or list or None. Can be list of None and not None*) – CapitainsCtsPassage reference
- **xpath** (*Boolean*) – If set to True, will return the replaced self.xpath value and not the whole self.refsDecl

Return type `basestring`

Returns Xpath to find the passage

```
citation = XmlCtsCitation(name="line", scope="/TEI/text/body/div/div[@n=?]",
↳xpath="//l[@n=?]")
print(citation.fill(["1", None]))
# /TEI/text/body/div/div[@n='1']//l[@n]
print(citation.fill(None))
# /TEI/text/body/div/div[@n]//l[@n]
print(citation.fill(Reference("1.1")))
# /TEI/text/body/div/div[@n='1']//l[@n='1']
print(citation.fill("1", xpath=True))
# //l[@n='1']
```

Metadata containers

class `MyCapytain.common.metadata.Metadata` (*node=None, *args, **kwargs*)

A metadatum aggregation object provided to centralize metadata

Parameters **keys** (*[text_type]*) – A metadata field names list

Variables

- **EXPORT_TO** – List of exportable supported formats
- **DEFAULT_EXPORT** – Default export (CTS XML Inventory)
- **STORE** – RDF Store

add (*key, value, lang=None*)

Add a triple to the graph related to this node

Parameters

- **key** – Predicate of the triple
- **value** – Object of the triple
- **lang** – Language of the triple if applicable

export (*output=None, **kwargs*)

Export the collection item in the Mimetype required.

Parameters **output** (*str*) – Mimetype to export to (Uses MyCapytain.common.utils.Mimetypes)

Returns Object using a different representation

export_capacities

List Mimetypes that current object can export to

get (*key, lang=None*)

Returns triple related to this node. Can filter on lang

Parameters

- **key** – Predicate of the triple
- **lang** – Language of the triple if applicable

Return type Literal or BNode or URIRef

static getOr (*subject, predicate, *args, **kwargs*)

Retrieve a metadata node or generate a new one

Parameters

- **subject** – Subject to which the metadata node should be connected
- **predicate** – Predicate by which the metadata node should be connected

Returns Metadata for given node

Return type Metadata

get_single (*key, lang=None*)

Returns a single triple related to this node.

Parameters

- **key** – Predicate of the triple
- **lang** – Language of the triple if applicable

Return type Literal or BNode or URIRef

graph

Quick access to the graph this node is connected to

Return type Graph

predicate_object (*predicate=None, obj=None*)

Retrieve predicate and object around this object

Parameters

- **predicate** – Predicate to match, None to match all
- **obj** – Object to match, None to match all

Returns List of resources

remove (*predicate=None, obj=None*)

Remove triple matching the predicate or the object

Parameters

- **predicate** – Predicate to match, None to match all
- **obj** – Object to match, None to match all

unlink (*subj=None, predicate=None*)

Remove triple where Metadata is the object

Parameters

- **subj** – Subject to match, None to match all
- **predicate** – Predicate to match, None to match all

Utilities

`MyCapytain.common.utils.LiteralToDict` (*value*)

Transform an object value into a dict readable value

Parameters **value** (*Literal or URIRef*) – Object of a triple which is not a BNode

Returns dict or str or list

class `MyCapytain.common.utils.OrderedDefaultDict` (*default_factory=None, *args, **kwargs*)

Extension of Default Dict that makes an OrderedDefaultDict

Parameters **default_factory** – Default class to initiate

class `MyCapytain.common.utils.Subgraph` (*namespace_manager*)

Utility class to generate subgraph around one or more items

:param

graphiter (*graph, target, ascendants=0, descendants=1*)

Iter on a graph to finds object connected

Parameters

- **graph** (*Graph*) – Graph to serialize
- **target** (*Node*) – Node to iterate over
- **ascendants** – Number of level to iter over upwards (-1 = No Limit)
- **descendants** – Number of level to iter over downwards (-1 = No limit)

Returns

`MyCapytain.common.utils.copyNode` (*node, children=False, parent=False*)

Copy an XML Node

Parameters

- **node** – Etree Node
- **children** – Copy children nodes is set to True
- **parent** – Append copied node to parent if given

Returns New Element

`MyCapytain.common.utils.expand_namespace (nsmap, string)`

If the string starts with a known prefix in nsmap, replace it by full URI

Parameters

- **nsmap** – Dictionary of prefix -> uri of namespace
- **string** – String in which to replace the namespace

Returns Expanded string with no namespace

`MyCapytain.common.utils.make_xml_node (graph, name, close=False, attributes=None, text='', complete=False, innerXML='')`

Create an XML Node

Parameters

- **graph** – Graph used to generate prefixes
- **name** – Name of the tag
- **close** – Produce closing tag (close=False -> "<tag>", close=True -> "</tag>")
- **attributes** – Dictionary of attributes
- **text** – CapitainsCtsText to put inside the node
- **complete** – Complete node (node with opening and closing tag)
- **innerXML** – XML to append to the node

Returns String representation of the node

Return type `str`

`MyCapytain.common.utils.nested_get (dictionary, keys)`

Get value in dictionary for dictionary[keys[0]][keys[1]][keys[.n]]

Parameters

- **dictionary** – An input dictionary
- **keys** – Keys where to store data

Returns

`MyCapytain.common.utils.nested_ordered_dictionary ()`

Helper to create a nested ordered default dictionary

Rtype `OrderedDefaultDict`

Returns Nested Ordered Default Dictionary instance

`MyCapytain.common.utils.nested_set (dictionary, keys, value)`

Set value in dictionary for dictionary[keys[0]][keys[1]][keys[.n]]

Parameters

- **dictionary** – An input dictionary
- **keys** – Keys where to store data
- **value** – Value to set at keys** target

Returns `None`

`MyCapytain.common.utils.normalize (string)`

Remove double-or-more spaces in a string

Parameters **string** (`text_type`) – A string to change

Return type `text_type`

Returns Clean string

`MyCapytain.common.utils.normalizeXpath(xpath)`

Normalize XPATH split around slashes

Parameters `xpath` (`[str]`) – List of xpath elements

Returns List of refined xpath

Return type `[str]`

`MyCapytain.common.utils.passageLoop(parent, new_tree, xpath1, xpath2=None, preceding_siblings=False, following_siblings=False)`

Loop over passages to construct and increment new tree given a parent and XPaths

Parameters

- **parent** – Parent on which to perform xpath
- **new_tree** – Parent on which to add nodes
- **xpath1** (`[str]`) – List of xpath elements
- **xpath2** (`[str]`) – List of xpath elements
- **preceding_siblings** – Append preceding siblings of XPath 1/2 match to the tree
- **following_siblings** – Append following siblings of XPath 1/2 match to the tree

Returns Newly incremented tree

`MyCapytain.common.utils.performXpath(parent, xpath)`

Perform an XPath on an element and indicate if we need to loop over it to find something

Parameters

- **parent** – XML Node on which to perform XPath
- **xpath** – XPath to run

Returns (Result, Need to loop Indicator)

`MyCapytain.common.utils.xmliter(node)`

Provides a simple XML Iter method which complies with either `_Element` or `_ObjectifiedElement`

Parameters `node` – XML Node

Returns Iterator for iterating over children of said node.

`MyCapytain.common.utils.xmlparser(xml, objectify=True)`

Parse xml

Parameters `xml` (`Union[text_type, lxml.etree._Element]`) – XML element

Return type `lxml.etree._Element`

Returns An element object

Raises `TypeError` if element is not in accepted type

API Retrievers

Module endpoints contains prototypes and implementation of retrievers in MyCapytain

CTS 5 API

class `MyCapytain.retrieve.cts5.HttpCtsRetriever` (*endpoint*, *inventory=None*)

Bases: `MyCapytain.retrieve.prototypes.CtsRetriever`

Basic integration of the `MyCapytain.retrieve.proto.CTS` abstraction

call (*parameters*)

Call an endpoint given the parameters

Parameters `parameters` (*dict*) – Dictionary of parameters

Return type *text*

getCapabilities (*inventory=None*, *urn=None*)

Retrieve the inventory information of an API

Parameters

- **inventory** (*text*) – Name of the inventory
- **urn** (*str*) – URN to filter with

Return type *str*

getFirstUrn (*urn*, *inventory=None*)

Retrieve the first passage urn of a text

Parameters

- **urn** (*text*) – URN identifying the text
- **inventory** (*text*) – Name of the inventory

Return type *str*

getLabel (*urn*, *inventory=None*)

Retrieve informations about a CTS Urn

Parameters

- **urn** (*text*) – URN identifying the text's passage (Minimum depth : 1)
- **inventory** (*text*) – Name of the inventory

Return type *str*

getMetadata (*objectId=None*, ***filters*)

Request metadata about a text or a collection

Parameters

- **objectId** – Filter for some object identifier
- **filters** – Kwarg parameters. URN and Inv are available

Returns `GetCapabilities` CTS API request response

getPassage (*urn*, *inventory=None*, *context=None*)

Retrieve a passage

Parameters

- **urn** (*text*) – URN identifying the text's passage (Minimum depth : 1)
- **inventory** (*text*) – Name of the inventory

- **context** (*int*) – Number of citation units at the same level of the citation hierarchy as the requested urn, immediately preceding and immediately following the requested urn to include in the reply

Return type *str*

getPassagePlus (*urn, inventory=None, context=None*)

Retrieve a passage and information about it

Parameters

- **urn** (*text*) – URN identifying the text’s passage (Minimum depth : 1)
- **inventory** (*text*) – Name of the inventory
- **context** (*int*) – Number of citation units at the same level of the citation hierarchy as the requested urn, immediately preceding and immediately following the requested urn to include in the reply

Return type *str*

getPrevNextUrn (*urn, inventory=None*)

Retrieve the previous and next passage urn of one passage

Parameters

- **urn** (*text*) – URN identifying the text’s passage (Minimum depth : 1)
- **inventory** (*text*) – Name of the inventory

Return type *str*

getReffs (*textId, level=1, subreference=None*)

Retrieve the siblings of a textual node

Parameters

- **textId** (*str*) – CtsTextMetadata Identifier
- **level** (*int*) – Depth for retrieval
- **subreference** (*str*) – CapitainsCtsPassage Reference

Returns List of references

Return type [*str*]

getSiblings (*textId, subreference*)

Retrieve the siblings of a textual node

Parameters

- **textId** – CtsTextMetadata Identifier
- **reference** – CapitainsCtsPassage Reference

Returns GetPrevNextUrn request response from the endpoint

getTextualNode (*textId, subreference=None, prevnext=False, metadata=False*)

Retrieve a text node from the API

Parameters

- **textId** – CtsTextMetadata Identifier
- **subreference** – CapitainsCtsPassage Reference
- **prevnext** – Retrieve graph representing previous and next passage

- **metadata** – Retrieve metadata about the passage and the text

Returns GetPassage or GetPassagePlus CTS API request response

getValidReff (*urn, inventory=None, level=None*)

Retrieve valid urn-references for a text

Parameters

- **urn** (*text*) – URN identifying the text
- **inventory** (*text*) – Name of the inventory
- **level** (*int*) – Depth of references expected

Returns XML Response from the API as string

Return type `str`

Prototypes

class `MyCapytain.retrievers.prototypes.API` (*endpoint*)

Bases: `object`

API Prototype object

Parameters

- **self** (*API*) – Object
- **endpoint** (*text*) – URL of the API

Variables `endpoint` – Url of the endpoint

class `MyCapytain.retrievers.prototypes.CitableTextServiceRetriever` (*endpoint*)

Bases: `MyCapytain.retrievers.prototypes.API`

Citable CtsTextMetadata Service retrievers should have at least have some of the following properties

getMetadata (*objectId=None, **filters*)

Request metadata about a text or a collection

Parameters

- **objectId** – CtsTextMetadata Identifier
- **filters** – Kwargs parameters. URN and Inv are available

Returns Metadata of text from an API or the likes as bytes

getReffs (*textId, level=1, subreference=None*)

Retrieve the siblings of a textual node

Parameters

- **textId** (*str*) – CtsTextMetadata Identifier
- **level** (*int*) – Depth for retrieval
- **subreference** (*str*) – CapitainsCtsPassage Reference

Returns List of references

Return type `[str]`

getSiblings (*textId, subreference*)

Retrieve the siblings of a textual node

Parameters

- **textId** – CtsTextMetadata Identifier
- **subreference** – CapitainsCtsPassage Reference

Returns Siblings references from an API or the likes as bytes

getTextualNode (*textId, subreference=None, prevnext=False, metadata=False*)
Retrieve a text node from the API

Parameters

- **textId** – CtsTextMetadata Identifier
- **subreference** – CapitainsCtsPassage Reference
- **prevnext** – Retrieve graph representing previous and next passage
- **metadata** – Retrieve metadata about the passage and the text

Returns CtsTextMetadata of a CapitainsCtsPassage from an API or the likes as bytes

class MyCapytain.retrievers.prototypes.**CtsRetriever** (*endpoint*)
Bases: MyCapytain.retrievers.prototypes.CitableTextServiceRetriever

CTS API Endpoint Prototype

getCapabilities (*inventory*)
Retrieve the inventory information of an API

Parameters **inventory** (*text*) – Name of the inventory

Return type *str*

getFirstUrn (*urn, inventory*)
Retrieve the first passage urn of a text

Parameters

- **urn** (*text*) – URN identifying the text
- **inventory** (*text*) – Name of the inventory

Return type *str*

getLabel (*urn, inventory*)
Retrieve informations about a CTS Urn

Parameters

- **urn** (*text*) – URN identifying the text's passage (Minimum depth : 1)
- **inventory** (*text*) – Name of the inventory

Return type *str*

getMetadata (*objectId=None, **filters*)
Request metadata about a text or a collection

Parameters

- **objectId** – CtsTextMetadata Identifier
- **filters** – Kwarg parameters. URN and Inv are available

Returns Metadata of text from an API or the likes as bytes

getPassage (*urn, inventory, context=None*)

Retrieve a passage

Parameters

- **urn** (*text*) – URN identifying the text’s passage (Minimum depth : 1)
- **inventory** (*text*) – Name of the inventory
- **context** (*int*) – Number of citation units at the same level of the citation hierarchy as the requested urn, immediately preceding and immediately following the requested urn to include in the reply

Return type *str*

getPassagePlus (*urn, inventory, context=None*)

Retrieve a passage and informations about it

Parameters

- **urn** (*text*) – URN identifying the text’s passage (Minimum depth : 1)
- **inventory** (*text*) – Name of the inventory
- **context** (*int*) – Number of citation units at the same level of the citation hierarchy as the requested urn, immediately preceding and immediately following the requested urn to include in the reply

Return type *str*

getPrevNextUrn (*urn, inventory*)

Retrieve the previous and next passage urn of one passage

Parameters

- **urn** (*text*) – URN identifying the text’s passage (Minimum depth : 1)
- **inventory** (*text*) – Name of the inventory

Return type *str*

getReffs (*textId, level=1, subreference=None*)

Retrieve the siblings of a textual node

Parameters

- **textId** (*str*) – CtsTextMetadata Identifier
- **level** (*int*) – Depth for retrieval
- **subreference** (*str*) – CapitainsCtsPassage Reference

Returns List of references

Return type [*str*]

getSiblings (*textId, subreference*)

Retrieve the siblings of a textual node

Parameters

- **textId** – CtsTextMetadata Identifier
- **subreference** – CapitainsCtsPassage Reference

Returns Siblings references from an API or the likes as bytes

getTextualNode (*textId, subreference=None, prevnext=False, metadata=False*)

Retrieve a text node from the API

Parameters

- **textId** – CtsTextMetadata Identifier
- **subreference** – CapitainsCtsPassage Reference
- **prevnext** – Retrieve graph representing previous and next passage
- **metadata** – Retrieve metadata about the passage and the text

Returns CtsTextMetadata of a CapitainsCtsPassage from an API or the likes as bytes

getValidReff (*urn, inventory, level=1*)

Retrieve valid urn-references for a text

Parameters

- **urn** (*text*) – URN identifying the text
- **inventory** (*text*) – Name of the inventory
- **level** (*int*) – Depth of references expected

Return type `str`

Resolvers

Remote CTS API

class `MyCapytain.resolvers.cts.api.HttpCtsResolver` (*endpoint*)

`HttpCtsResolver` provide a resolver for CTS API http endpoint.

Parameters **endpoint** (*HttpCtsRetriever*) – CTS API Retriever

Variables **endpoint** – CTS API Retriever

endpoint

CTS Endpoint of the resolver

Returns CTS Endpoint

Return type `HttpCtsRetriever`

getMetadata (*objectId=None, **filters*)

Request metadata about a text or a collection

Parameters

- **objectId** (*str*) – Object Identifier to filter on
- **filters** (*dict*) – Kwargs parameters.

Returns Collection

getReffs (*textId, level=1, subreference=None*)

Retrieve the siblings of a textual node

Parameters

- **textId** (*str*) – CtsTextMetadata Identifier
- **level** (*int*) – Depth for retrieval

- **subreference** (*str*) – CapitainsCtsPassage Reference

Returns List of references

Return type [*str*]

getSiblings (*textId, subreference*)

Retrieve the siblings of a textual node

Parameters

- **textId** (*str*) – CtsTextMetadata Identifier
- **subreference** (*str*) – CapitainsCtsPassage Reference

Returns Tuple of references

Return type (*str, str*)

getTextualNode (*textId, subreference=None, prevnext=False, metadata=False*)

Retrieve a text node from the API

Parameters

- **textId** (*str*) – CtsTextMetadata Identifier
- **subreference** (*str*) – CapitainsCtsPassage Reference
- **prevnext** (*boolean*) – Retrieve graph representing previous and next passage
- **metadata** (*boolean*) – Retrieve metadata about the passage and the text

Returns CapitainsCtsPassage

Return type *CapitainsCtsPassage*

Local CapiTainS Guidelines CTS Resolver

```
class MyCapytain.resolvers.cts.local.CtsCapitainsLocalResolver (resource,
                                                                name=None,
                                                                logger=None,
                                                                dispatcher=None)
```

XML Folder Based resolver. CtsTextMetadata and metadata resolver based on local directories

Parameters

- **resource** (*[str]*) – Resource should be a list of folders retaining data as Capitains Guidelines Repositories
- **name** (*str*) – Key used to differentiate Repository and thus enabling different repo to be used
- **logger** (*logging*) – Logging object

Variables

- **TEXT_CLASS** – CtsTextMetadata Class [not instantiated] to be used to parse Texts. Can be changed to support Cache for example
- **DEFAULT_PAGE** – Default Page to show
- **PER_PAGE** – Tuple representing the minimal number of texts returned, the default number and the maximum number of texts returned

TEXT_CLASS

alias of CapitainsCtsText

getMetadata (*objectId=None, **filters*)

Request metadata about a text or a collection

Parameters

- **objectId** (*str*) – Object Identifier to filter on
- **filters** (*dict*) – Kwarg parameters.

Returns Collection

getReffs (*textId, level=1, subreference=None*)

Retrieve the siblings of a textual node

Parameters

- **textId** (*str*) – CtsTextMetadata Identifier
- **level** (*int*) – Depth for retrieval
- **subreference** (*str*) – CapitainsCtsPassage Reference

Returns List of references

Return type [str]

getSiblings (*textId, subreference*)

Retrieve the siblings of a textual node

Parameters

- **textId** (*str*) – CtsTextMetadata Identifier
- **subreference** (*str*) – CapitainsCtsPassage Reference

Returns Tuple of references

Return type (str, str)

getTextualNode (*textId, subreference=None, prevnext=False, metadata=False*)

Retrieve a text node from the API

Parameters

- **textId** (*str*) – CtsTextMetadata Identifier
- **subreference** (*str*) – CapitainsCtsPassage Reference
- **prevnext** (*boolean*) – Retrieve graph representing previous and next passage
- **metadata** (*boolean*) – Retrieve metadata about the passage and the text

Returns CapitainsCtsPassage

Return type *CapitainsCtsPassage*

static pagination (*page, limit, length*)

Help for pagination :param page: Provided Page :param limit: Number of item to show :param length: Length of the list to paginate :return: (Start Index, End Index, Page Number, Item Count)

parse (*resource*)

Parse a list of directories and reads it into a collection

Parameters **resource** – List of folders

Returns An inventory resource and a list of CtsTextMetadata metadata-objects

xmlparse (*file*)

Parse a XML file :param file: Opened File :return: Tree

Dispatcher

`class MyCapytain.resolvers.utils.CollectionDispatcher` (*collection*, *default_inventory_name=None*)

Collection Dispatcher provides a utility to divide automatically texts and collections into different collections

Parameters

- **collection** – The root collection
- **default_inventory_name** – The default name of the default collection

`add` (*func*, *inventory_name*)

Register given function as a filter.

If this function “func” returns True when given an object, said object will be dispatched to `Collection(inventory_name)`

Parameters

- **func** – Callable
- **inventory_name** – Identifier of the collection to dispatch to

`dispatch` (*collection*, ***kwargs*)

Dispatch a collection using internal filters

Parameters

- **collection** – Collection object
- **kwargs** – Additional keyword arguments that could be used by internal filters

Returns None

Raises

`inventory` (*inventory_name*)

Decorator to register filters for given inventory. For a function “abc”, it has the same effect

Parameters **inventory_name** –

Returns

```
tic = CtsTextInventoryCollection()
latin = CtsTextInventoryMetadata("urn:perseus:latinLit", parent=tic)
latin.set_label("Classical Latin", "eng")
dispatcher = CollectionDispatcher(tic)

@dispatcher.inventory("urn:perseus:latinLit")
def dispatchLatinLit(collection, path=None, **kwargs):
    if collection.id.startswith("urn:cts:latinLit:"):
        return True
    return False
```

methods

List of methods to dispatch resources.

Each element is a tuple with two elements :

- First one is the inventory identifier to dispatch to
- Second one is a function which, if returns true, will activate dispatching to given

Return type List

Prototypes

class `MyCapytain.resolvers.prototypes.Resolver`

Resolver provide a native python API which returns python objects.

Initiation of resolvers are dependent on the implementation of the prototype

getMetadata (*objectId=None, **filters*)

Request metadata about a text or a collection

Parameters

- **objectId** (*str*) – Object Identifier to filter on
- **filters** (*dict*) – Kwarg parameters.

Returns Collection

getReffs (*textId, level=1, subreference=None*)

Retrieve the siblings of a textual node

Parameters

- **textId** (*str*) – CtsTextMetadata Identifier
- **level** (*int*) – Depth for retrieval
- **subreference** (*str*) – CapitainsCtsPassage Reference

Returns List of references

Return type [str]

getSiblings (*textId, subreference*)

Retrieve the siblings of a textual node

Parameters

- **textId** (*str*) – CtsTextMetadata Identifier
- **subreference** (*str*) – CapitainsCtsPassage Reference

Returns Tuple of references

Return type (str, str)

getTextualNode (*textId, subreference=None, prevnext=False, metadata=False*)

Retrieve a text node from the API

Parameters

- **textId** (*str*) – CtsTextMetadata Identifier
- **subreference** (*str*) – CapitainsCtsPassage Reference
- **prevnext** (*boolean*) – Retrieve graph representing previous and next passage
- **metadata** (*boolean*) – Retrieve metadata about the passage and the text

Returns CapitainsCtsPassage

Return type *CapitainsCtsPassage*

Texts and inventories

Text

TEI based texts

class `MyCapytain.resources.texts.base.tei.TEIResource` (*resource*, ***kwargs*)
 Bases: `MyCapytain.resources.prototypes.text.InteractiveTextNode`

TEI Encoded Resource

Parameters *resource* (`Union[str, _Element]`) – XML Resource that needs to be parsed into a `CapitainsCtsPassage/CtsTextMetadata`

Variables

- `EXPORT_TO` – List of exportable supported formats
- `DEFAULT_EXPORT` – Default export (Plain/CtsTextMetadata)

`DEFAULT_EXPORT = 'text/plain'`

`EXPORT_TO = ['python/lxml', 'text/xml', 'python/NestedDict', 'text/plain', 'text/xml:tei']`

`asNode()`

childIds
 Identifiers of children

Returns Identifiers of children

Return type `[str]`

children
 Children Passages

Return type `iterator(CapitainsCtsPassage)`

citation
 XmlCtsCitation Object of the `CtsTextMetadata`

Returns XmlCtsCitation Object of the `CtsTextMetadata`

Return type `Citation`

`default_exclude = []`

depth
 Depth of the node in the global hierarchy of the text tree

Return type `int`

export (*output=None*, *exclude=None*, ***kwargs*)
 Export the collection item in the Mimetype required.

..note:: If current implementation does not have special mimetypes, reuses `default_export` method

Parameters

- **output** (`str`) – Mimetype to export to (Uses `MyCapytain.common.constants.Mimetypes`)
- **exclude** (`[str]`) – Information to exclude. Specific to implementations

Returns Object using a different representation

export_capacities

List Mimetypes that current object can export to

first

First CapitainsCtsPassage

Return type Passage

firstId

First child of current CapitainsCtsPassage

Return type str

Returns First passage node Information

getReffs (*level=1, subreference=None*)

Reference available at a given level

Parameters

- **level** (*Int*) – Depth required. If not set, should retrieve first encountered level (1 based)
- **passage** (*Reference*) – Subreference (optional)

Return type [text_type]

Returns List of levels

getTextualNode (*subreference*)

Retrieve a passage and store it in the object

Parameters **subreference** (*str or Node or Reference*) – Reference of the passage to retrieve

Return type TextualNode

Returns Object representing the passage

Raises *TypeError* when reference is not a list or a Reference

get_creator (*lang=None*)

Get the DC Creator literal value

Parameters **lang** – Language to retrieve

Returns Creator string representation

Return type Literal

get_description (*lang=None*)

Get the description of the object

Parameters **lang** – Lang to retrieve

Returns Description string representation

Return type Literal

get_subject (*lang=None*)

Get the subject of the object

Parameters **lang** – Lang to retrieve

Returns Subject string representation

Return type Literal

get_title (*lang=None*)

Get the title of the object

Parameters **lang** – Lang to retrieve

Returns Title string representation

Return type Literal

graph

id

Identifier of the text

Returns Identifier of the text

Return type text_type

last

Last CapitainsCtsPassage

Return type Passage

lastId

Last child of current CapitainsCtsPassage

Return type str

Returns Last passage Node representation

metadata

Metadata information about the text

Returns Collection object with metadata about the text

Return type Metadata

next

Get Next CapitainsCtsPassage

Return type Passage

nextId

Next Node (Sibling)

Return type str

parent

Parent CapitainsCtsPassage

Return type Passage

parentId

Parent Node

Return type str

prev

Get Previous CapitainsCtsPassage

Return type Passage

prevId

Previous Node (Sibling)

Return type str

set_creator (*value, lang*)
Set the DC Creator literal value

Parameters **lang** – Language in which the value is

set_description (*value, lang=None*)
Set the DC Description literal value

Parameters **lang** – Language in which the value is

set_subject (*value, lang=None*)
Set the DC Subject literal value

Parameters **lang** – Language in which the value is

set_title (*value, lang=None*)
Set the DC Title literal value

Parameters **lang** – Language in which the value is

siblingsId
Siblings Node

Return type (*str, str*)

text
String representation of the text

Returns String representation of the text

Return type *text_type*

xml
XML Representation of the CapitainsCtsPassage

Return type *lxml.etree._Element*

Returns XML element representing the passage

Locally read text

```
class MyCapytain.resources.texts.local.capitains.cts.CapitainsCtsText (urn=None,
                                                                    cita-
                                                                    tion=None,
                                                                    re-
                                                                    source=None)
Bases: MyCapytain.resources.texts.local.capitains.cts.__SharedMethods__,
MyCapytain.resources.texts.base.tei.TEIResource, MyCapytain.resources.
prototypes.text.CitableText
```

Implementation of CTS tools for local files

Parameters

- **urn** (*MyCapytain.common.reference.URN*) – A URN identifier
- **resource** (*lxml.etree._Element*) – A resource
- **citation** (*Citation*) – Highest XmlCtsCitation level
- **autoreffs** (*bool*) – Parse references on load (default : True)

Variables **resource** – *lxml*

DEFAULT_EXPORT = 'text/plain'

EXPORT_TO = ['python/lxml', 'text/xml', 'python/NestedDict', 'text/plain', 'text/xml:tei']

asNode ()

childIds
Identifiers of children
Returns Identifiers of children
Return type [str]

children
Children Passages
Return type iterator(*CapitainsCtsPassage*)

citation
XmlCtsCitation Object of the CtsTextMetadata
Returns XmlCtsCitation Object of the CtsTextMetadata
Return type *Citation*

default_exclude = []

depth
Depth of the node in the global hierarchy of the text tree
Return type int

export (*output=None, exclude=None, **kwargs*)
Export the collection item in the Mimetype required.
..note:: If current implementation does not have special mimetypes, reuses default_export method

Parameters

- **output** (*str*) – Mimetype to export to (Uses MyCapytain.common.constants.Mimetypes)
- **exclude** (*[str]*) – Information to exclude. Specific to implementations

Returns Object using a different representation

export_capacities
List Mimetypes that current object can export to

first
First CapitainsCtsPassage
Return type Passage

firstId
First child of current CapitainsCtsPassage
Return type str
Returns First passage node Information

getLabel ()
Retrieve metadata about the text
Return type Collection
Returns Retrieve Label informations in a Collection format

getReffs (*level=1, subreference=None*)
Reference available at a given level

Parameters

- **level** (*Int*) – Depth required. If not set, should retrieve first encountered level (1 based)
- **subreference** (*str*) – Subreference (optional)

Return type List.basestring

Returns List of levels

getTextualNode (*subreference=None, simple=False*)

Finds a passage in the current text

Parameters

- **subreference** (*Union[list, Reference]*) – Identifier of the subreference / passages
- **simple** (*boolean*) – If set to true, retrieves nodes up to the given one, cleaning non required siblings.

Return type *CapitainsCtsPassage*, *ContextPassage*

Returns Asked passage

getValidReff (*level=None, reference=None, _debug=False*)

Retrieve valid passages directly

Parameters

- **level** (*int*) – Depth required. If not set, should retrieve first encountered level (1 based)
- **reference** (*Reference*) – CapitainsCtsPassage Reference
- **_debug** (*bool*) – Check on passages duplicates

Returns List of levels

Return type *list(basestring, str)*

Note: GetValidReff works for now as a loop using CapitainsCtsPassage, subinstances of CtsTextMetadata, to retrieve the valid informations. Maybe something is more powerfull ?

get_creator (*lang=None*)

Get the DC Creator literal value

Parameters **lang** – Language to retrieve

Returns Creator string representation

Return type Literal

get_cts_metadata (*key, lang=None*)

get_description (*lang=None*)

Get the description of the object

Parameters **lang** – Lang to retrieve

Returns Description string representation

Return type Literal

get_subject (*lang=None*)

Get the subject of the object

Parameters `lang` – Lang to retrieve

Returns Subject string representation

Return type Literal

`get_title` (*lang=None*)

Get the title of the object

Parameters `lang` – Lang to retrieve

Returns Title string representation

Return type Literal

graph

id

Identifier of the text

Returns Identifier of the text

Return type `text_type`

last

Last CapitainsCtsPassage

Return type `Passage`

lastId

Last child of current CapitainsCtsPassage

Return type `str`

Returns Last passage Node representation

metadata

Metadata information about the text

Returns Collection object with metadata about the text

Return type `Metadata`

next

Get Next CapitainsCtsPassage

Return type `Passage`

nextId

Next Node (Sibling)

Return type `str`

parent

Parent CapitainsCtsPassage

Return type `Passage`

parentId

Parent Node

Return type `str`

prev

Get Previous CapitainsCtsPassage

Return type `Passage`

prevId

Previous Node (Sibling)

Return type `str`

reffi

Get all valid reffi for every part of the CitableText

Return type `[str]`

set_creator (*value, lang*)

Set the DC Creator literal value

Parameters **lang** – Language in which the value is

set_description (*value, lang=None*)

Set the DC Description literal value

Parameters **lang** – Language in which the value is

set_metadata_from_collection (*text_metadata*)

Set the object metadata using its collections recursively

Parameters **text_metadata** (*CtsEditionMetadata or CtsTranslationMetadata*) – Object representing the current text as a collection

set_subject (*value, lang=None*)

Set the DC Subject literal value

Parameters **lang** – Language in which the value is

set_title (*value, lang=None*)

Set the DC Title literal value

Parameters **lang** – Language in which the value is

siblingsId

Siblings Node

Return type (`str, str`)

test ()

Parse the object and generate the children

text

String representation of the text

Returns String representation of the text

Return type `text_type`

textObject

Textual Object with full capacities (Unlike Simple CapitainsCtsPassage)

Return type `CtsTextMetadata, CapitainsCtsPassage`

Returns Textual Object with full capacities (Unlike Simple CapitainsCtsPassage)

tostring (**args, **kwargs*)

Transform the CapitainsCtsPassage in XML string

Parameters

- **args** – Ordered arguments for `etree.tostring()` (except the first one)
- **kwargs** – Named arguments

Returns**urn**

URN Identifier of the object

Return type *URN***xml**

XML Representation of the CapitainsCtsPassage

Return type `lxml.etree._Element`**Returns** XML element representing the passage**xpath** (**args*, ***kwargs*)

Perform XPath on the passage XML

Parameters

- **args** – Ordered arguments for `etree._Element().xpath()`
- **kwargs** – Named arguments

Returns Result list**Return type** *list*(`etree._Element`)

```
class MyCapytain.resources.texts.local.capitains.cts.CapitainsCtsPassage (reference,
                                                                    urn=None,
                                                                    cita-
                                                                    tion=None,
                                                                    re-
                                                                    source=None,
                                                                    text=None)
```

Bases: `MyCapytain.resources.texts.local.capitains.cts.__SharedMethods__`,
`MyCapytain.resources.texts.base.tei.TEIResource`, `MyCapytain.resources`.
`prototypes.text.Passage`

CapitainsCtsPassage class for local texts which rebuilds the tree up to the passage.

For design purposes, some people would prefer the output of `GetPassage` to be consistent. `ContextPassage` rebuilds the tree of the text up to the passage, keeping attributes of original nodes

Example : for a text with a citation scheme with following `refsDecl` :
`/TEI/text/body/div[@type='edition']/div[@n='$1']/div[@n='$2']/l[@n='$3']` and a passage 1.1.1-1.2.3,
this class will build an XML tree looking like the following

```
<TEI ...>
  <text ...>
    <body ...>
      <div type='edition' ...>
        <div n='1' ...>
          <div n='1' ...>
            <l n='1'>...</l>
            ...
          </div>
          <div n='2' ...>
            <l n='3'>...</l>
          </div>
        </div>
      </div>
    </body>
```

```

    </text>
</TEI>

```

Parameters

- **reference** (*Reference*) – CapitainsCtsPassage reference
- **urn** (*URN*) – URN of the source text or of the passage
- **citation** (*XmlCtsCitation*) – XmlCtsCitation scheme of the text
- **resource** (*etree._Element*) – Element representing the passage
- **text** (*CtsTextMetadata*) – CtsTextMetadata containing the passage

Note: `.prev`, `.next`, `.first` and `.last` won't run on passage with a range made of two different level, such as 1.1-1.2.3 or 1-a.b. Those will raise *InvalidSiblingRequest*

DEFAULT_EXPORT = 'text/plain'

EXPORT_TO = ['python/xml', 'text/xml', 'python/NestedDict', 'text/plain', 'text/xml:tei']

asNode ()

childIds

Children of the passage

Return type *None, Reference*

Returns Dictionary of children, where key are subreferences

children

Children Passages

Return type *iterator(CapitainsCtsPassage)*

citation

XmlCtsCitation Object of the CtsTextMetadata

Returns XmlCtsCitation Object of the CtsTextMetadata

Return type *Citation*

default_exclude = []

depth

Depth of the node in the global hierarchy of the text tree

Return type *int*

export (*output=None, exclude=None, **kwargs*)

Export the collection item in the Mimetype required.

..note:: If current implementation does not have special mimetypes, reuses default_export method

Parameters

- **output** (*str*) – Mimetype to export to (Uses MyCapytain.common.constants.Mimetypes)
- **exclude** (*[str]*) – Information to exclude. Specific to implementations

Returns Object using a different representation

export_capacities

List Mimetypes that current object can export to

first

First CapitainsCtsPassage

Return type Passage

firstId

First child of current CapitainsCtsPassage

Return type str

Returns First passage node Information

getLabel ()

Retrieve metadata about the text

Return type Collection

Returns Retrieve Label informations in a Collection format

getReffs (level=1, subreference=None)

Reference available at a given level

Parameters

- **level** (*Int*) – Depth required. If not set, should retrieve first encountered level (1 based)
- **subreference** (*str*) – Subreference (optional)

Return type List.basestring

Returns List of levels

getTextualNode (subreference=None, *args, **kwargs)**getValidReff (level=None, reference=None, _debug=False)**

Retrieve valid passages directly

Parameters

- **level** (*int*) – Depth required. If not set, should retrieve first encountered level (1 based)
- **reference** (*Reference*) – CapitainsCtsPassage Reference
- **_debug** (*bool*) – Check on passages duplicates

Returns List of levels

Return type list(basestring, str)

Note: GetValidReff works for now as a loop using CapitainsCtsPassage, subinstances of CtsTextMetadata, to retrieve the valid informations. Maybe something is more powerfull ?

get_creator (lang=None)

Get the DC Creator literal value

Parameters lang – Language to retrieve

Returns Creator string representation

Return type Literal

get_cts_metadata (key, lang=None)

get_description (*lang=None*)

Get the description of the object

Parameters **lang** – Lang to retrieve

Returns Description string representation

Return type Literal

get_subject (*lang=None*)

Get the subject of the object

Parameters **lang** – Lang to retrieve

Returns Subject string representation

Return type Literal

get_title (*lang=None*)

Get the title of the object

Parameters **lang** – Lang to retrieve

Returns Title string representation

Return type Literal

graph

id

Identifier of the text

Returns Identifier of the text

Return type text_type

last

Last CapitainsCtsPassage

Return type Passage

lastId

Last child of current CapitainsCtsPassage

Return type str

Returns Last passage Node representation

metadata

Metadata information about the text

Returns Collection object with metadata about the text

Return type Metadata

next

Next CapitainsCtsPassage (Interactive CapitainsCtsPassage)

nextId

Next passage

Returns Next passage at same level

Return type None, Reference

parent

Parent CapitainsCtsPassage

Return type Passage

parentId

Parent Node

Return type str

prev

Previous CapitainsCtsPassage (Interactive CapitainsCtsPassage)

prevId

Get the Previous passage reference

Returns Previous passage reference at the same level

Return type None, Reference

reference

Reference of the object

set_creator (*value*, *lang*)

Set the DC Creator literal value

Parameters lang – Language in which the value is

set_description (*value*, *lang=None*)

Set the DC Description literal value

Parameters lang – Language in which the value is

set_metadata_from_collection (*text_metadata*)

Set the object metadata using its collections recursively

Parameters text_metadata (*CtsEditionMetadata* or *CtsTranslationMetadata*) – Object representing the current text as a collection

set_subject (*value*, *lang=None*)

Set the DC Subject literal value

Parameters lang – Language in which the value is

set_title (*value*, *lang=None*)

Set the DC Title literal value

Parameters lang – Language in which the value is

siblingsId

Siblings Identifiers of the passage

Return type (str, str)

text

String representation of the text

Returns String representation of the text

Return type text_type

textObject

CtsTextMetadata Object. Required for NextPrev

Return type CapitainsCtsText

tostring (**args*, ***kwargs*)

Transform the CapitainsCtsPassage in XML string

Parameters

- **args** – Ordered arguments for `etree.tostring()` (except the first one)
- **kwargs** – Named arguments

Returns

urn

URN Identifier of the object

Return type *URN*

xml

XML Representation of the `CapitainsCtsPassage`

Return type `lxml.etree._Element`

Returns XML element representing the passage

xpath (**args, **kwargs*)

Perform XPath on the passage XML

Parameters

- **args** – Ordered arguments for `etree._Element().xpath()`
- **kwargs** – Named arguments

Returns Result list

Return type *list(etree._Element)*

```
class MyCapytain.resources.texts.local.capitains.cts.__SimplePassage__ (resource,
                                                                    refer-
                                                                    ence,
                                                                    cita-
                                                                    tion,
                                                                    text,
                                                                    urn=None)
```

Bases: `MyCapytain.resources.texts.local.capitains.cts.__SharedMethods__`,
`MyCapytain.resources.texts.base.tei.TEIResource`, `MyCapytain.resources`.
`prototypes.text.Passage`

CapitainsCtsPassage for simple and quick parsing of texts

Parameters

- **resource** (*etree._Element*) – Element representing the passage
- **reference** (`Reference`) – `CapitainsCtsPassage` reference
- **urn** (`URN`) – URN of the source text or of the passage
- **citation** (`Citation`) – `XmlCtsCitation` scheme of the text
- **text** (`CapitainsCtsText`) – `CtsTextMetadata` containing the passage

childIds

Children of the passage

Return type *None, Reference*

Returns Dictionary of children, where key are subreferences

children

Children Passages

Return type *iterator(CapitainsCtsPassage)*

citation

XmlCtsCitation Object of the CtsTextMetadata

Returns XmlCtsCitation Object of the CtsTextMetadata

Return type *Citation*

depth

Depth of the node in the global hierarchy of the text tree

Return type *int*

export (*output=None, exclude=None, **kwargs*)

Export the collection item in the Mimetype required.

..note:: If current implementation does not have special mimetypes, reuses default_export method

Parameters

- **output** (*str*) – Mimetype to export to (Uses MyCapytain.common.constants.Mimetypes)
- **exclude** (*[str]*) – Information to exclude. Specific to implementations

Returns Object using a different representation

export_capacities

List Mimetypes that current object can export to

first

First CapitainsCtsPassage

Return type *Passage*

firstId

First child of current CapitainsCtsPassage

Return type *str*

Returns First passage node Information

getLabel ()

Retrieve metadata about the text

Return type *Collection*

Returns Retrieve Label informations in a Collection format

getReffs (*level=1, subreference=None*)

Reference available at a given level

Parameters

- **level** (*Int*) – Depth required. If not set, should retrieve first encountered level (1 based)
- **subreference** (*Reference*) – Subreference (optional)

Return type *List.basestring*

Returns List of levels

getTextualNode (*subreference=None*)

Special GetPassage implementation for SimplePassage (Simple is True by default)

Parameters **subreference** –

Returns

getValidReff (*level=None, reference=None, _debug=False*)

Retrieve valid passages directly

Parameters

- **level** (*int*) – Depth required. If not set, should retrieve first encountered level (1 based)
- **reference** (*Reference*) – CapitainsCtsPassage Reference
- **_debug** (*bool*) – Check on passages duplicates

Returns List of levels

Return type *list*(basestring, str)

Note: GetValidReff works for now as a loop using CapitainsCtsPassage, subinstances of CtsTextMetadata, to retrieve the valid informations. Maybe something is more powerfull ?

get_creator (*lang=None*)

Get the DC Creator literal value

Parameters **lang** – Language to retrieve

Returns Creator string representation

Return type Literal

get_description (*lang=None*)

Get the description of the object

Parameters **lang** – Lang to retrieve

Returns Description string representation

Return type Literal

get_subject (*lang=None*)

Get the subject of the object

Parameters **lang** – Lang to retrieve

Returns Subject string representation

Return type Literal

get_title (*lang=None*)

Get the title of the object

Parameters **lang** – Lang to retrieve

Returns Title string representation

Return type Literal

id

Identifier of the text

Returns Identifier of the text

Return type text_type

last

Last CapitainsCtsPassage

Return type Passage

lastId
 Last child of current CapitainsCtsPassage
Return type `str`
Returns Last passage Node representation

metadata
 Metadata information about the text
Returns Collection object with metadata about the text
Return type `Metadata`

next
 Get Next CapitainsCtsPassage
Return type `Passage`

nextId
 Next passage
Returns Next passage at same level
Return type `None, Reference`

parent
 Parent CapitainsCtsPassage
Return type `Passage`

parentId
 Parent Node
Return type `str`

prev
 Get Previous CapitainsCtsPassage
Return type `Passage`

prevId
 Get the Previous passage reference
Returns Previous passage reference at the same level
Return type `None, Reference`

reference
 URN CapitainsCtsPassage Reference
Returns `Reference`
Return type `Reference`

set_creator (*value, lang*)
 Set the DC Creator literal value
Parameters `lang` – Language in which the value is

set_description (*value, lang=None*)
 Set the DC Description literal value
Parameters `lang` – Language in which the value is

set_metadata_from_collection (*text_metadata*)
 Set the object metadata using its collections recursively

Parameters `text_metadata` (*CtsEditionMetadata* or *CtsTranslationMetadata*) – Object representing the current text as a collection

set_subject (*value*, *lang=None*)
Set the DC Subject literal value

Parameters `lang` – Language in which the value is

set_title (*value*, *lang=None*)
Set the DC Title literal value

Parameters `lang` – Language in which the value is

siblingsId
Siblings Identifiers of the passage

Return type (*str*, *str*)

text
String representation of the text

Returns String representation of the text

Return type *text_type*

textObject
CtsTextMetadata Object. Required for NextPrev

Return type *CapitainsCtsText*

tostring (**args*, ***kwargs*)
Transform the CapitainsCtsPassage in XML string

Parameters

- **args** – Ordered arguments for `etree.tostring()` (except the first one)
- **kwargs** – Named arguments

Returns

urn
URN Identifier of the object

Return type *URN*

xml
XML Representation of the CapitainsCtsPassage

Return type *lxml.etree._Element*

Returns XML element representing the passage

xpath (**args*, ***kwargs*)
Perform XPath on the passage XML

Parameters

- **args** – Ordered arguments for `etree._Element().xpath()`
- **kwargs** – Named arguments

Returns Result list

Return type *list(etree._Element)*

CTS API Texts

Formerly MyCapytain.resources.texts.api (< 2.0.0)

```
class MyCapytain.resources.texts.remote.cts.CtsText (urn, retriever, citation=None,
                                                    **kwargs)
```

Bases: MyCapytain.resources.texts.remote.cts.__SharedMethod__, MyCapytain.resources.prototypes.text.CitableText

API CtsTextMetadata object

Parameters

- **urn** (*Union[URN, str, unicode]*) – A URN identifier
- **resource** (*CitableTextServiceRetriever*) – An API endpoint
- **citation** (*XmlCtsCitation*) – XmlCtsCitation for children level
- **id** (*List*) – Identifier of the subreference without URN informations

DEFAULT_EXPORT = None

DEFAULT_LANG = 'eng'

EXPORT_TO = []

asNode ()

childIds

Identifiers of children

Returns Identifiers of children

Return type [str]

children

Children Passages

Return type iterator(*CapitainsCtsPassage*)

citation

XmlCtsCitation Object of the CtsTextMetadata

Returns XmlCtsCitation Object of the CtsTextMetadata

Return type *Citation*

default_exclude = []

depth

Depth of the current object

Returns Int representation of the depth based on URN information

Return type int

export (*output='text/plain', exclude=None, **kwargs*)

Export the collection item in the Mimetype required.

..note:: If current implementation does not have special mimetypes, reuses default_export method

Parameters

- **output** (*str*) – Mimetype to export to (Uses Mimetypes)
- **exclude** (*[str]*) – Informations to exclude. Specific to implementations

Returns Object using a different representation

export_capacities

List Mimetypes that current object can export to

first

First CapitainsCtsPassage

Return type Passage

firstId

Children passage

Return type str

Returns First children of the graph. Shortcut to self.graph.children[0]

firstUrn (*resource*)

Parse a resource to get the first URN

Parameters **resource** (*etree._Element*) – XML Resource

Returns Tuple representing previous and next urn

Return type str

getFirstUrn (*reference=None*)

Get the first children URN for a given resource

Parameters **reference** (*Reference, str*) – Reference from which to find child (If None, find first reference)

Returns Children URN

Return type URN

getLabel ()

Retrieve metadata about the text

Return type Metadata

Returns Dictionary with label informations

getPassagePlus (*reference=None*)

Retrieve a passage and informations around it and store it in the object

Parameters **reference** (*Reference or List of text_type*) – Reference of the passage

Return type CtsPassage

Returns Object representing the passage

Raises *TypeError* when reference is not a list or a Reference

getPrevNextUrn (*reference*)

Get the previous URN of a reference of the text

Parameters **reference** (*Union[Reference, str]*) – Reference from which to find siblings

Returns (Previous CapitainsCtsPassage Reference, Next CapitainsCtsPassage Reference)

getReffs (*level=1, subreference=None*)

Reference available at a given level

Parameters

- **level** (*Int*) – Depth required. If not set, should retrieve first encountered level (1 based)
- **subreference** (*Reference*) – Subreference (optional)

Return type [*text_type*]

Returns List of levels

getTextualNode (*subreference=None*)

Retrieve a passage and store it in the object

Parameters **subreference** (*Union[Reference, URN, str, list]*) – Reference of the passage (Note : if given a list, this should be a list of string that compose the reference)

Return type *CtsPassage*

Returns Object representing the passage

Raises *TypeError* when reference is not a list or a Reference

getValidReff (*level=1, reference=None*)

Given a resource, CitableText will compute valid reffs

Parameters

- **level** (*Int*) – Depth required. If not set, should retrieve first encountered level (1 based)
- **reference** (*Reference*) – CapitainsCtsPassage reference

Return type *list(str)*

Returns List of levels

get_creator (*lang=None*)

Get the DC Creator literal value

Parameters **lang** – Language to retrieve

Returns Creator string representation

Return type Literal

get_cts_metadata (*key, lang=None*)

get_description (*lang=None*)

Get the description of the object

Parameters **lang** – Lang to retrieve

Returns Description string representation

Return type Literal

get_subject (*lang=None*)

Get the subject of the object

Parameters **lang** – Lang to retrieve

Returns Subject string representation

Return type Literal

get_title (*lang=None*)

Get the title of the object

Parameters **lang** – Lang to retrieve

Returns Title string representation

Return type Literal

graph

id

Identifier of the text

Returns Identifier of the text

Return type text_type

last

Last CapitainsCtsPassage

Return type Passage

lastId

Children passage

Return type str

Returns First children of the graph. Shortcut to self.graph.children[0]

metadata

Metadata information about the text

Returns Collection object with metadata about the text

Return type Metadata

next

nextId

parent

Parent CapitainsCtsPassage

Return type Passage

parentId

Parent Node

Return type str

prev

prevId

prevnext (*resource*)

Parse a resource to get the prev and next urn

Parameters **resource** (*etree._Element*) – XML Resource

Returns Tuple representing previous and next urn

Return type (str, str)

reffs

Get all valid reffs for every part of the CitableText

Return type MyCapytain.resources.texts.tei.XmlCtsCitation

retriever

Retriever object used to query for more data

Return type CitableTextServiceRetriever

set_creator (*value, lang*)

Set the DC Creator literal value

Parameters **lang** – Language in which the value is

set_description (*value, lang=None*)

Set the DC Description literal value

Parameters **lang** – Language in which the value is

set_metadata_from_collection (*text_metadata*)

Set the object metadata using its collections recursively

Parameters **text_metadata** (*CtsEditionMetadata or CtsTranslationMetadata*) – Object representing the current text as a collection

set_subject (*value, lang=None*)

Set the DC Subject literal value

Parameters **lang** – Language in which the value is

set_title (*value, lang=None*)

Set the DC Title literal value

Parameters **lang** – Language in which the value is

siblingsId

text

String representation of the text

Returns String representation of the text

Return type *text_type*

urn

URN Identifier of the object

Return type *URN*

```
class MyCapytain.resources.texts.remote.cts.CtsPassage (urn, resource, *args,
**kwargs)
```

Bases: *MyCapytain.resources.texts.remote.cts.__SharedMethod__, MyCapytain.resources.prototypes.text.Passage, MyCapytain.resources.texts.base.tei.TEIResource*

CapitainsCtsPassage representing

Parameters

- **urn** –
- **resource** –
- **retriever** –
- **args** –
- **kwargs** –

DEFAULT_EXPORT = 'text/plain'

EXPORT_TO = ['python/lxml', 'text/xml', 'python/NestedDict', 'text/plain', 'text/xml:tei']

asNode ()

childIds

Identifiers of children

Returns Identifiers of children

Return type [str]

children

Children Passages

Return type iterator(*CapitainsCtsPassage*)

citation

XmlCtsCitation Object of the CtsTextMetadata

Returns XmlCtsCitation Object of the CtsTextMetadata

Return type *Citation*

default_exclude = []

depth

Depth of the current object

Returns Int representation of the depth based on URN information

Return type int

export (*output=None, exclude=None, **kwargs*)

Export the collection item in the Mimetype required.

..note:: If current implementation does not have special mimetypes, reuses default_export method

Parameters

- **output** (*str*) – Mimetype to export to (Uses MyCapytain.common.constants.Mimetypes)
- **exclude** (*[str]*) – Information to exclude. Specific to implementations

Returns Object using a different representation

export_capacities

List Mimetypes that current object can export to

first

First CapitainsCtsPassage

Return type Passage

firstId

Children passage

Return type str

Returns First children of the graph. Shortcut to self.graph.children[0]

firstUrn (*resource*)

Parse a resource to get the first URN

Parameters **resource** (*etree._Element*) – XML Resource

Returns Tuple representing previous and next urn

Return type str

getFirstUrn (*reference=None*)

Get the first children URN for a given resource

Parameters **reference** (*Reference, str*) – Reference from which to find child (If None, find first reference)

Returns Children URN

Return type *URN*

getLabel ()

Retrieve metadata about the text

Return type Metadata

Returns Dictionary with label informations

getPassagePlus (*reference=None*)

Retrieve a passage and informations around it and store it in the object

Parameters **reference** (*Reference or List of text_type*) – Reference of the passage

Return type *CtsPassage*

Returns Object representing the passage

Raises *TypeError* when reference is not a list or a Reference

getPrevNextUrn (*reference*)

Get the previous URN of a reference of the text

Parameters **reference** (*Union[Reference, str]*) – Reference from which to find siblings

Returns (Previous CapitainsCtsPassage Reference, Next CapitainsCtsPassage Reference)

getReffs (*level=1, subreference=None*)

Reference available at a given level

Parameters

- **level** (*Int*) – Depth required. If not set, should retrieve first encountered level (1 based)
- **subreference** (*Reference*) – Subreference (optional)

Return type [text_type]

Returns List of levels

getTextualNode (*subreference=None*)

Retrieve a passage and store it in the object

Parameters **subreference** (*Union[Reference, URN, str, list]*) – Reference of the passage (Note : if given a list, this should be a list of string that compose the reference)

Return type *CtsPassage*

Returns Object representing the passage

Raises *TypeError* when reference is not a list or a Reference

getValidReff (*level=1, reference=None*)

Given a resource, CitableText will compute valid reffs

Parameters

- **level** (*Int*) – Depth required. If not set, should retrieve first encountered level (1 based)
- **reference** (*Reference*) – CapitainsCtsPassage reference

Return type *list(str)*

Returns List of levels

get_creator (*lang=None*)

Get the DC Creator literal value

Parameters **lang** – Language to retrieve

Returns Creator string representation

Return type Literal

get_cts_metadata (*key, lang=None*)

get_description (*lang=None*)

Get the description of the object

Parameters **lang** – Lang to retrieve

Returns Description string representation

Return type Literal

get_subject (*lang=None*)

Get the subject of the object

Parameters **lang** – Lang to retrieve

Returns Subject string representation

Return type Literal

get_title (*lang=None*)

Get the title of the object

Parameters **lang** – Lang to retrieve

Returns Title string representation

Return type Literal

graph

id

last

Last CapitainsCtsPassage

Return type Passage

lastId

Children passage

Return type `str`

Returns First children of the graph. Shortcut to `self.graph.children[0]`

metadata

Metadata information about the text

Returns Collection object with metadata about the text

Return type Metadata

next

Get Next CapitainsCtsPassage

Return type Passage

nextId

Shortcut for getting the following passage identifier

Return type *Reference*

Returns Following passage reference

parent

Parent CapitainsCtsPassage

Return type Passage

parentId

Shortcut for getting the parent passage identifier

Return type *Reference*

Returns Following passage reference

prev

Get Previous CapitainsCtsPassage

Return type Passage

prevId

Previous passage Identifier

Return type *CtsPassage*

Returns Previous passage at same level

prevnext (*resource*)

Parse a resource to get the prev and next urn

Parameters **resource** (*etree._Element*) – XML Resource

Returns Tuple representing previous and next urn

Return type (*str, str*)

reference**retriever**

Retriever object used to query for more data

Return type CitableTextServiceRetriever

set_creator (*value, lang*)

Set the DC Creator literal value

Parameters **lang** – Language in which the value is

set_description (*value, lang=None*)

Set the DC Description literal value

Parameters **lang** – Language in which the value is

set_metadata_from_collection (*text_metadata*)

Set the object metadata using its collections recursively

Parameters **text_metadata** (*CtsEditionMetadata or CtsTranslationMetadata*) – Object representing the current text as a collection

set_subject (*value, lang=None*)

Set the DC Subject literal value

Parameters **lang** – Language in which the value is

set_title (*value*, *lang=None*)

Set the DC Title literal value

Parameters **lang** – Language in which the value is

siblingsId

Shortcut for getting the previous and next passage identifier

Return type *Reference*

Returns Following passage reference

text

String representation of the text

Returns String representation of the text

Return type *text_type*

urn

URN Identifier of the object

Return type *URN*

xml

XML Representation of the CapitainsCtsPassage

Return type *lxml.etree._Element*

Returns XML element representing the passage

Collections

Metadata

```
class MyCapytain.resources.prototypes.metadata.Collection (identifier='', *args,  
                                                         **kwargs)
```

Bases: *MyCapytain.common.base.Exportable*

Collection represents any resource's metadata. It has members and parents

Variables

- **properties** – Properties of the collection
- **parents** – Parent of the node from the direct parent to the highest ascendant
- *metadata* – Metadata

DEFAULT_EXPORT = *None*

EXPORT_TO = [*'application/ld+json'*, *'application/ld+json:DTS'*, *'application/rdf+xml'*]

MODEL_URI = *rdflib.term.URIRef('http://w3id.org/dts-ontology/collection')*

TYPE_URI = *rdflib.term.URIRef('http://w3id.org/dts-ontology/collection')*

asNode ()

Node representation of the collection in the graph

Return type *URIRef*

capabilities

children

Dictionary of childrens {Identifier: Collection}

Return type dict

descendants

Any descendant (no max level) of the collection's item

Return type [Collection]

export (*output=None, **kwargs*)

Export the collection item in the Mimetype required.

Parameters **output** (*str*) – Mimetype to export to (Uses MyCapytain.common.utils.Mimetypes)

Returns Object using a different representation

export_capacities

List Mimetypes that current object can export to

get_label (*lang=None*)

Return label for given lang or any default

Parameters **lang** – Language to request

Returns Label value

Return type Literal

graph

RDFLib Graph space

Return type Graph

id

members

Children of the collection's item

Return type [Collection]

metadata

model

parent

Parent of current object

Return type Collection

parents

Iterator to find parents of current collection, from closest to furthest

Return type Generator[Collection]

readable

Readable property should return elements where the element can be queried for getPassage / getReffs

readableDescendants

List of element available which are readable

Return type [Collection]

set_label (*label, lang*)

Add the label of the collection in given lang

Parameters

- **label** – Label Value

- **lang** – Language code

size

type

version

class `MyCapytain.resources.prototypes.metadata.ResourceCollection` (*identifier=''*,
**args*,
***kwargs*)

Bases: `MyCapytain.resources.prototypes.metadata.Collection`

DEFAULT_EXPORT = None

EXPORT_TO = ['application/ld+json', 'application/ld+json:DTS', 'application/rdf+xml']

MODEL_URI = `rdflib.term.URIRef('http://w3id.org/dts-ontology/collection')`

TYPE_URI = `rdflib.term.URIRef('http://w3id.org/dts-ontology/collection')`

asNode ()

Node representation of the collection in the graph

Return type `URIRef`

capabilities

children

Dictionary of childrens {Identifier: Collection}

Return type `dict`

descendants

Any descendant (no max level) of the collection's item

Return type [Collection]

export (*output=None*, ***kwargs*)

Export the collection item in the Mime type required.

Parameters **output** (*str*) – Mime type to export to (Uses `MyCapytain.common.utils.Mimetypes`)

Returns Object using a different representation

export_capacities

List Mime types that current object can export to

get_creator (*lang=None*)

Get the DC Creator literal value

Parameters **lang** – Language to retrieve

Returns Creator string representation

Return type `Literal`

get_description (*lang=None*)

Get the description of the object

Parameters **lang** – Lang to retrieve

Returns Description string representation

Return type `Literal`

get_label (*lang=None*)

Return label for given lang or any default

Parameters **lang** – Language to request

Returns Label value

Return type Literal

get_subject (*lang=None*)

Get the subject of the object

Parameters **lang** – Lang to retrieve

Returns Subject string representation

Return type Literal

get_title (*lang=None*)

Get the title of the object

Parameters **lang** – Lang to retrieve

Returns Title string representation

Return type Literal

graph

RDFLib Graph space

Return type Graph

id

lang

Languages this text is in

Returns List of available languages

members

Children of the collection's item

Return type [Collection]

metadata

model

parent

Parent of current object

Return type Collection

parents

Iterator to find parents of current collection, from closest to furthest

Return type Generator[Collection]

readable

Readable property should return elements where the element can be queried for getPassage / getReffs

readableDescendants

List of element available which are readable

Return type [Collection]

set_label (*label, lang*)

Add the label of the collection in given lang

Parameters

- **label** – Label Value
- **lang** – Language code

size
type
version

CTS inventory

class `MyCapytain.resources.collections.cts.XmlCtsCitation` (*name=None, xpath=None, scope=None, refs-Decl=None, child=None*)

Bases: `MyCapytain.common.reference.Citation`

XmlCtsCitation XML implementation for CtsTextInventoryMetadata

DEFAULT_EXPORT = 'text/xml:CTS'

EXPORT_TO = ['text/xml:CTS', 'text/xml:tei']

child

Child of a citation

Type XmlCtsCitation or None

Example `XmlCtsCitation.name==poem` would have a child `XmlCtsCitation.name==line`

escape = `re.compile('(')`

export (*output=None, **kwargs*)

Export the collection item in the Mimetype required.

Parameters **output** (*str*) – Mimetype to export to (Uses `MyCapytain.common.utils.Mimetypes`)

Returns Object using a different representation

export_capacities

List Mimetypes that current object can export to

fill (*passage=None, xpath=None*)

Fill the xpath with given informations

Parameters

- **passage** (*Reference or list or None. Can be list of None and not None*) – `CapitainsCtsPassage` reference
- **xpath** (*Boolean*) – If set to True, will return the replaced `self.xpath` value and not the whole `self.refsDecl`

Return type `basestring`

Returns Xpath to find the passage

```

citation = XmlCtsCitation(name="line", scope="/TEI/text/body/div/div[@n=?]",
↳xpath="//l[@n=?]")
print(citation.fill(["1", None]))
# /TEI/text/body/div/div[@n='1']//l[@n]
print(citation.fill(None))

```

```
# /TEI/text/body/div/div[@n]//l[@n]
print(citation.fill(Reference("1.1")))
# /TEI/text/body/div/div[@n='1']//l[@n='1']
print(citation.fill("1", xpath=True))
# //l[@n='1']
```

static ingest (*resource*, *element=None*, *xpath='ti:citation'*)
Ingest xml to create a citation

Parameters

- **resource** – XML on which to do xpath
- **element** – Element where the citation should be stored
- **xpath** – XPath to use to retrieve citation

Returns XmlCtsCitation

isEmpty ()

Check if the citation has not been set

Returns True if nothing was setup

Return type bool

name

Type of the citation represented

Type text_type

Example Book, Chapter, Textpart, Section, Poem...

refsDecl

ResfDecl expression of the citation scheme

Return type str

Example /tei:TEI/tei:text/tei:body/tei:div//tei:l[@n='\$1']

scope

CtsTextInventoryMetadata scope property of a citation (ie. identifier of all element but the last of the citation)

Type basestring

Example /tei:TEI/tei:text/tei:body/tei:div

xpath

CtsTextInventoryMetadata xpath property of a citation (ie. identifier of the last element of the citation)

Type basestring

Example //tei:l[@n="???"]

class MyCapytain.resources.collections.cts.XmlCtsCommentaryMetadata (*urn='', parent=None, lang=None*)

Bases: MyCapytain.resources.prototypes.cts.inventory.CtsCommentaryMetadata, MyCapytain.resources.collections.cts.XmlCtsTextMetadata

Create a commentary subtyped PrototypeText object

CTS_LINKS = [rdflib.term.URIRef('http://chs.harvard.edu/xmlns/cts/about')]

CTS_MODEL = 'CtsCollection'

```
CTS_PROPERTIES = [rdflib.term.URIRef('http://chs.harvard.edu/xmlns/cts/label'), rdflib.term.URIRef('http://chs.harvard.edu/xmlns/cts/label')]
DC_TITLE_KEY = rdflib.term.URIRef('http://chs.harvard.edu/xmlns/cts/label')
DEFAULT_EXPORT = 'python/xml'
EXPORT_TO = ['text/xml:CTS', 'text/xml:CTS_CapiTainS']
MODEL_URI = rdflib.term.URIRef('http://w3id.org/dts-ontology/resource')
SUBTYPE = 'commentary'
TYPE_URI = rdflib.term.URIRef('http://chs.harvard.edu/xmlns/cts/commentary')
```

asNode ()

Node representation of the collection in the graph

Return type URIRef

capabilities

children

Dictionary of childrens {Identifier: Collection}

Return type dict

descendants

Descendants of the collection's item

Warning: CapitainsCtsText has no Descendants

Return type list

editions ()

Get all editions of the texts

Returns List of editions

Return type [CtsTextMetadata]

export (*output=None, **kwargs*)

Export the collection item in the Mimetype required.

Parameters **output** (*str*) – Mimetype to export to (Uses MyCapytain.common.utils.Mimetypes)

Returns Object using a different representation

export_capacities

List Mimetypes that current object can export to

get_creator (*lang=None*)

Get the DC Creator literal value

Parameters **lang** – Language to retrieve

Returns Creator string representation

Return type Literal

get_cts_property (*prop, lang=None*)

Set given property in CTS Namespace

Parameters

- **prop** – Property to get (Without namespace)
- **lang** – Language to get for given value

Returns Value or default if lang is set, else whole set of values

Return type dict or Literal

get_description (*lang=None*)

Get the DC description of the object

Parameters **lang** – Lang to retrieve

Returns Description string representation

Return type Literal

get_label (*lang=None*)

Return label for given lang or any default

Parameters **lang** – Language to request

Returns Label value

Return type Literal

get_link (*prop*)

Get given link in CTS Namespace

Parameters **prop** – Property to get (Without namespace)

Returns whole set of values

Return type list

get_subject (*lang=None*)

Get the DC subject of the object

Parameters **lang** – Lang to retrieve

Returns Subject string representation

Return type Literal

get_title (*lang=None*)

Get the DC Title of the object

Parameters **lang** – Lang to retrieve

Returns Title string representation

Return type Literal

graph

RDFLib Graph space

Return type Graph

id

lang

Languages this text is in

Returns List of available languages

members

Children of the collection's item

Warning: CapitainsCtsText has no children

Return type *list*

metadata

model

parent

Parent of current object

Return type Collection

parents

Iterator to find parents of current collection, from closest to furthest

Return type Generator[Collection]

static parse (*resource, parent=None*)

parse_metadata (*obj, xml*)

Parse a resource to feed the object

Parameters

- **obj** (*XmlCtsTextMetadata*) – Obj to set metadata of
- **xml** (*lxml.etree._Element*) – An xml representation object

readable

readableDescendants

List of element available which are readable

Return type [Collection]

set_cts_property (*prop, value, lang=None*)

Set given property in CTS Namespace

Parameters

- **prop** – Property to set (Without namespace)
- **value** – Value to set for given property
- **lang** – Language to set for given value

set_label (*label, lang*)

Add the label of the collection in given lang

Parameters

- **label** – Label Value
- **lang** – Language code

set_link (*prop, value*)

Set given link in CTS Namespace

Parameters

- **prop** – Property to set (Without namespace)
- **value** – Value to set for given property

size

subtype

Subtype of the object

Returns string representation of subtype**translations** (*key=None*)

Get translations in given language

Parameters **key** – Language ISO Code to filter on**Returns****type****urn****version**

```
class MyCapytain.resources.collections.cts.XmlCtsEditionMetadata (urn='', parent=None, lang=None)
```

Bases: MyCapytain.resources.prototypes.cts.inventory.CtsEditionMetadata, MyCapytain.resources.collections.cts.XmlCtsTextMetadata

Create an edition subtyped CtsTextMetadata object

CTS_LINKS = [rdflib.term.URIRef('http://chs.harvard.edu/xmlns/cts/about')]**CTS_MODEL** = 'CtsCollection'**CTS_PROPERTIES** = [rdflib.term.URIRef('http://chs.harvard.edu/xmlns/cts/label'), rdflib.term.URIRef('http://chs.harvard.edu/xmlns/cts/label')]**DC_TITLE_KEY** = rdflib.term.URIRef('http://chs.harvard.edu/xmlns/cts/label')**DEFAULT_EXPORT** = 'python/xml'**EXPORT_TO** = ['text/xml:CTS', 'text/xml:CTS_CapiTainS']**MODEL_URI** = rdflib.term.URIRef('http://w3id.org/dts-ontology/resource')**SUBTYPE** = 'edition'**TYPE_URI** = rdflib.term.URIRef('http://chs.harvard.edu/xmlns/cts/edition')**asNode** ()

Node representation of the collection in the graph

Return type URIRef**capabilities****children**

Dictionary of childrens {Identifier: Collection}

Return type dict**descendants**

Descendants of the collection's item

Warning: CapitainsCtsText has no Descendants

Return type list**editions** ()

Get all editions of the texts

Returns List of editions

Return type [CtsTextMetadata]

export (*output=None, **kwargs*)

Export the collection item in the Mimetype required.

Parameters **output** (*str*) – Mimetype to export to (Uses MyCapytain.common.utils.Mimetypes)

Returns Object using a different representation

export_capacities

List Mimetypes that current object can export to

get_creator (*lang=None*)

Get the DC Creator literal value

Parameters **lang** – Language to retrieve

Returns Creator string representation

Return type Literal

get_cts_property (*prop, lang=None*)

Set given property in CTS Namespace

Parameters

- **prop** – Property to get (Without namespace)
- **lang** – Language to get for given value

Returns Value or default if lang is set, else whole set of values

Return type dict or Literal

get_description (*lang=None*)

Get the DC description of the object

Parameters **lang** – Lang to retrieve

Returns Description string representation

Return type Literal

get_label (*lang=None*)

Return label for given lang or any default

Parameters **lang** – Language to request

Returns Label value

Return type Literal

get_link (*prop*)

Get given link in CTS Namespace

Parameters **prop** – Property to get (Without namespace)

Returns whole set of values

Return type list

get_subject (*lang=None*)

Get the DC subject of the object

Parameters **lang** – Lang to retrieve

Returns Subject string representation

Return type Literal

get_title (*lang=None*)

Get the DC Title of the object

Parameters **lang** – Lang to retrieve

Returns Title string representation

Return type Literal

graph

RDFLib Graph space

Return type Graph

id

lang

Languages this text is in

Returns List of available languages

members

Children of the collection's item

Warning: CapitainsCtsText has no children

Return type *list*

metadata

model

parent

Parent of current object

Return type Collection

parents

Iterator to find parents of current collection, from closest to furthest

Return type Generator[Collection]

static parse (*resource, parent=None*)

parse_metadata (*obj, xml*)

Parse a resource to feed the object

Parameters

- **obj** (*XmlCtsTextMetadata*) – Obj to set metadata of
- **xml** (*lxml.etree._Element*) – An xml representation object

readable

readableDescendants

List of element available which are readable

Return type [Collection]

set_cts_property (*prop, value, lang=None*)

Set given property in CTS Namespace

Parameters

- **prop** – Property to set (Without namespace)
- **value** – Value to set for given property
- **lang** – Language to set for given value

set_label (*label, lang*)

Add the label of the collection in given lang

Parameters

- **label** – Label Value
- **lang** – Language code

set_link (*prop, value*)

Set given link in CTS Namespace

Parameters

- **prop** – Property to set (Without namespace)
- **value** – Value to set for given property

size

subtype

Subtype of the object

Returns string representation of subtype

translations (*key=None*)

Get translations in given language

Parameters **key** – Language ISO Code to filter on

Returns

type

urn

version

class MyCapytain.resources.collections.cts.**XmlCtsTextInventoryMetadata** (*name='defaultInventory',*

parent=None)

Bases: MyCapytain.resources.prototypes.cts.inventory.

CtsTextInventoryMetadata

Represents a CTS Inventory file

CTS_LINKS = []

CTS_MODEL = 'CtsCollection'

CTS_PROPERTIES = []

DC_TITLE_KEY = rdflib.term.URIRef('http://chs.harvard.edu/xmlns/cts/name')

DEFAULT_EXPORT = 'python/xml'

EXPORT_TO = ['text/xml:CTS', 'text/xml:CTS_CapiTainS']

MODEL_URI = `rdflib.term.URIRef('http://w3id.org/dts-ontology/collection')`

TYPE_URI = `rdflib.term.URIRef('http://chs.harvard.edu/xmlns/cts/TextInventory')`

asNode ()

Node representation of the collection in the graph

Return type URIRef

capabilities

children

Dictionary of childrens {Identifier: Collection}

Return type dict

descendants

Any descendant (no max level) of the collection's item

Return type [Collection]

export (*output=None, **kwargs*)

Export the collection item in the Mimetype required.

Parameters **output** (*str*) – Mimetype to export to (Uses MyCapytain.common.utils.Mimetypes)

Returns Object using a different representation

export_capacities

List Mimetypes that current object can export to

get_cts_property (*prop, lang=None*)

Set given property in CTS Namespace

Parameters

- **prop** – Property to get (Without namespace)
- **lang** – Language to get for given value

Returns Value or default if lang is set, else whole set of values

Return type dict or Literal

get_label (*lang=None*)

Return label for given lang or any default

Parameters **lang** – Language to request

Returns Label value

Return type Literal

get_link (*prop*)

Get given link in CTS Namespace

Parameters **prop** – Property to get (Without namespace)

Returns whole set of values

Return type list

graph

RDFLib Graph space

Return type Graph

id

members

Children of the collection's item

Return type [Collection]

metadata

model

parent

Parent of current object

Return type Collection

parents

Iterator to find parents of current collection, from closest to furthest

Return type Generator[Collection]

static parse (*resource*)

Parse a resource

Parameters

- **resource** – Element representing the text inventory
- **type** – basestring, etree._Element

readable

Readable property should return elements where the element can be queried for getPassage / getReffs

readableDescendants

List of element available which are readable

Return type [Collection]

set_cts_property (*prop, value, lang=None*)

Set given property in CTS Namespace

Parameters

- **prop** – Property to set (Without namespace)
- **value** – Value to set for given property
- **lang** – Language to set for given value

set_label (*label, lang*)

Add the label of the collection in given lang

Parameters

- **label** – Label Value
- **lang** – Language code

set_link (*prop, value*)

Set given link in CTS Namespace

Parameters

- **prop** – Property to set (Without namespace)
- **value** – Value to set for given property

size

textgroups

Textgroups

Returns Dictionary of textgroups**Return type** defaultdict(CtsTextgroupMetadata)**type****urn****version**

```
class MyCapytain.resources.collections.cts.XmlCtsTextMetadata (urn='',          par-
                                                             ent=None,
                                                             lang=None)
```

Bases: MyCapytain.resources.prototypes.cts.inventory.CtsTextMetadata

Represents a CTS CtsTextMetadata

CTS_LINKS = [rdflib.term.URIRef('http://chs.harvard.edu/xmlns/cts/about')]**CTS_MODEL** = 'CtsCollection'**CTS_PROPERTIES** = [rdflib.term.URIRef('http://chs.harvard.edu/xmlns/cts/label'), rdflib.term.URIRef('http://chs.harvard.edu/xmlns/cts/text')]**DC_TITLE_KEY** = rdflib.term.URIRef('http://chs.harvard.edu/xmlns/cts/label')**DEFAULT_EXPORT** = 'python/xml'**EXPORT_TO** = ['text/xml:CTS', 'text/xml:CTS_CapiTainS']**MODEL_URI** = rdflib.term.URIRef('http://w3id.org/dts-ontology/resource')**SUBTYPE** = 'unknown'**TYPE_URI** = rdflib.term.URIRef('http://chs.harvard.edu/xmlns/cts/text')**asNode** ()

Node representation of the collection in the graph

Return type URIRef**capabilities****children**

Dictionary of childrens {Identifier: Collection}

Return type dict**descendants**

Descendants of the collection's item

Warning: CapitainsCtsText has no Descendants**Return type** list**editions** ()

Get all editions of the texts

Returns List of editions**Return type** [CtsTextMetadata]**export** (output=None, **kwargs)

Export the collection item in the Mimetype required.

Parameters **output** (*str*) – Mimetype to export to (Uses MyCapytain.common.utils.Mimetypes)

Returns Object using a different representation

export_capacities

List Mimetypes that current object can export to

get_creator (*lang=None*)

Get the DC Creator literal value

Parameters **lang** – Language to retrieve

Returns Creator string representation

Return type Literal

get_cts_property (*prop, lang=None*)

Set given property in CTS Namespace

Parameters

- **prop** – Property to get (Without namespace)
- **lang** – Language to get for given value

Returns Value or default if lang is set, else whole set of values

Return type dict or Literal

get_description (*lang=None*)

Get the DC description of the object

Parameters **lang** – Lang to retrieve

Returns Description string representation

Return type Literal

get_label (*lang=None*)

Return label for given lang or any default

Parameters **lang** – Language to request

Returns Label value

Return type Literal

get_link (*prop*)

Get given link in CTS Namespace

Parameters **prop** – Property to get (Without namespace)

Returns whole set of values

Return type list

get_subject (*lang=None*)

Get the DC subject of the object

Parameters **lang** – Lang to retrieve

Returns Subject string representation

Return type Literal

get_title (*lang=None*)

Get the DC Title of the object

Parameters `lang` – Lang to retrieve

Returns Title string representation

Return type Literal

graph

RDFLib Graph space

Return type Graph

id

lang

Languages this text is in

Returns List of available languages

members

Children of the collection's item

Warning: CapitainsCtsText has no children

Return type *list*

metadata

model

parent

Parent of current object

Return type Collection

parents

Iterator to find parents of current collection, from closest to furthest

Return type Generator[Collection]

static parse_metadata (*obj, xml*)

Parse a resource to feed the object

Parameters

- **obj** (*XmlCtsTextMetadata*) – Obj to set metadata of
- **xml** (*lxml.etree._Element*) – An xml representation object

readable

readableDescendants

List of element available which are readable

Return type [Collection]

set_cts_property (*prop, value, lang=None*)

Set given property in CTS Namespace

Parameters

- **prop** – Property to set (Without namespace)
- **value** – Value to set for given property
- **lang** – Language to set for given value

set_label (*label, lang*)

Add the label of the collection in given lang

Parameters

- **label** – Label Value
- **lang** – Language code

set_link (*prop, value*)

Set given link in CTS Namespace

Parameters

- **prop** – Property to set (Without namespace)
- **value** – Value to set for given property

size

subtype

Subtype of the object

Returns string representation of subtype

translations (*key=None*)

Get translations in given language

Parameters **key** – Language ISO Code to filter on

Returns

type

urn

version

class MyCapytain.resources.collections.cts.XmlCtsTextgroupMetadata (*urn='', parent=None*)

Bases: MyCapytain.resources.prototypes.cts.inventory.CtsTextgroupMetadata

Represents a CTS Textgroup in XML

CTS_LINKS = []

CTS_MODEL = 'CtsCollection'

CTS_PROPERTIES = [rdflib.term.URIRef('http://chs.harvard.edu/xmlns/cts/groupname')]

DC_TITLE_KEY = rdflib.term.URIRef('http://chs.harvard.edu/xmlns/cts/groupname')

DEFAULT_EXPORT = 'python/xml'

EXPORT_TO = ['text/xml:CTS', 'text/xml:CTS_CapiTainS']

MODEL_URI = rdflib.term.URIRef('http://w3id.org/dts-ontology/collection')

TYPE_URI = rdflib.term.URIRef('http://chs.harvard.edu/xmlns/cts/textgroup')

asNode ()

Node representation of the collection in the graph

Return type URIRef

capabilities

children

Dictionary of childrens {Identifier: Collection}

Return type `dict`

descendants

Any descendant (no max level) of the collection's item

Return type [Collection]

export (*output=None, **kwargs*)

Export the collection item in the Mimetype required.

Parameters **output** (*str*) – Mimetype to export to (Uses MyCapytain.common.utils.Mimetypes)

Returns Object using a different representation

export_capacities

List Mimetypes that current object can export to

get_cts_property (*prop, lang=None*)

Set given property in CTS Namespace

Parameters

- **prop** – Property to get (Without namespace)
- **lang** – Language to get for given value

Returns Value or default if lang is set, else whole set of values

Return type `dict` or Literal

get_label (*lang=None*)

Return label for given lang or any default

Parameters **lang** – Language to request

Returns Label value

Return type Literal

get_link (*prop*)

Get given link in CTS Namespace

Parameters **prop** – Property to get (Without namespace)

Returns whole set of values

Return type *list*

graph

RDFLib Graph space

Return type Graph

id

members

Children of the collection's item

Return type [Collection]

metadata

model

parent

Parent of current object

Return type Collection

parents

Iterator to find parents of current collection, from closest to furthest

Return type Generator[Collection]

static parse (*resource*, *parent=None*)

Parse a textgroup resource

Parameters

- **resource** – Element representing the textgroup
- **parent** – Parent of the textgroup

readable

Readable property should return elements where the element can be queried for `getPassage / getReffs`

readableDescendants

List of element available which are readable

Return type [Collection]

set_cts_property (*prop*, *value*, *lang=None*)

Set given property in CTS Namespace

Parameters

- **prop** – Property to set (Without namespace)
- **value** – Value to set for given property
- **lang** – Language to set for given value

set_label (*label*, *lang*)

Add the label of the collection in given lang

Parameters

- **label** – Label Value
- **lang** – Language code

set_link (*prop*, *value*)

Set given link in CTS Namespace

Parameters

- **prop** – Property to set (Without namespace)
- **value** – Value to set for given property

size

type

update (*other*)

Merge two Textgroup Objects.

- Original (left Object) keeps his parent.
- Added document merges with work if it already exists

Parameters **other** (*CtsTextgroupMetadata*) – Textgroup object

Returns Textgroup Object

Return type CtsTextgroupMetadata

urn

version

works

Works

Returns Dictionary of works

Return type defaultdict(PrototypeWorks)

```
class MyCapytain.resources.collections.cts.XmlCtsTranslationMetadata (urn='',
                                                                    par-
                                                                    ent=None,
                                                                    lang=None)
```

Bases: MyCapytain.resources.prototypes.cts.inventory.CtsTranslationMetadata, MyCapytain.resources.collections.cts.XmlCtsTextMetadata

Create a translation subttyped CtsTextMetadata object

CTS_LINKS = [rdflib.term.URIRef('http://chs.harvard.edu/xmlns/cts/about')]

CTS_MODEL = 'CtsCollection'

CTS_PROPERTIES = [rdflib.term.URIRef('http://chs.harvard.edu/xmlns/cts/label'), rdflib.term.URIRef('http://chs.harvard.edu/xmlns/cts/translation')]

DC_TITLE_KEY = rdflib.term.URIRef('http://chs.harvard.edu/xmlns/cts/label')

DEFAULT_EXPORT = 'python/xml'

EXPORT_TO = ['text/xml:CTS', 'text/xml:CTS_CapiTainS']

MODEL_URI = rdflib.term.URIRef('http://w3id.org/dts-ontology/resource')

SUBTYPE = 'translation'

TYPE_URI = rdflib.term.URIRef('http://chs.harvard.edu/xmlns/cts/translation')

asNode ()

Node representation of the collection in the graph

Return type URIRef

capabilities

children

Dictionary of childrens {Identifier: Collection}

Return type dict

descendants

Descendants of the collection's item

Warning: CapitainsCtsText has no Descendants

Return type list

editions ()

Get all editions of the texts

Returns List of editions

Return type [CtsTextMetadata]

export (*output=None, **kwargs*)

Export the collection item in the Mimetype required.

Parameters **output** (*str*) – Mimetype to export to (Uses MyCapytain.common.utils.Mimetypes)

Returns Object using a different representation

export_capacities

List Mimetypes that current object can export to

get_creator (*lang=None*)

Get the DC Creator literal value

Parameters **lang** – Language to retrieve

Returns Creator string representation

Return type Literal

get_cts_property (*prop, lang=None*)

Set given property in CTS Namespace

Parameters

- **prop** – Property to get (Without namespace)
- **lang** – Language to get for given value

Returns Value or default if lang is set, else whole set of values

Return type dict or Literal

get_description (*lang=None*)

Get the DC description of the object

Parameters **lang** – Lang to retrieve

Returns Description string representation

Return type Literal

get_label (*lang=None*)

Return label for given lang or any default

Parameters **lang** – Language to request

Returns Label value

Return type Literal

get_link (*prop*)

Get given link in CTS Namespace

Parameters **prop** – Property to get (Without namespace)

Returns whole set of values

Return type list

get_subject (*lang=None*)

Get the DC subject of the object

Parameters **lang** – Lang to retrieve

Returns Subject string representation

Return type Literal

get_title (*lang=None*)

Get the DC Title of the object

Parameters **lang** – Lang to retrieve

Returns Title string representation

Return type Literal

graph

RDFLib Graph space

Return type Graph

id

lang

Languages this text is in

Returns List of available languages

members

Children of the collection's item

Warning: CapitainsCtsText has no children

Return type *list*

metadata

model

parent

Parent of current object

Return type Collection

parents

Iterator to find parents of current collection, from closest to furthest

Return type Generator[Collection]

static parse (*resource, parent=None*)

parse_metadata (*obj, xml*)

Parse a resource to feed the object

Parameters

- **obj** (*XmlCtsTextMetadata*) – Obj to set metadata of
- **xml** (*lxml.etree._Element*) – An xml representation object

readable

readableDescendants

List of element available which are readable

Return type [Collection]

set_cts_property (*prop, value, lang=None*)

Set given property in CTS Namespace

Parameters

- **prop** – Property to set (Without namespace)
- **value** – Value to set for given property
- **lang** – Language to set for given value

set_label (*label, lang*)

Add the label of the collection in given lang

Parameters

- **label** – Label Value
- **lang** – Language code

set_link (*prop, value*)

Set given link in CTS Namespace

Parameters

- **prop** – Property to set (Without namespace)
- **value** – Value to set for given property

size

subtype

Subtype of the object

Returns string representation of subtype

translations (*key=None*)

Get translations in given language

Parameters **key** – Language ISO Code to filter on

Returns

type

urn

version

class MyCapytain.resources.collections.cts.**XmlCtsWorkMetadata** (*urn=None, parent=None*)

Bases: MyCapytain.resources.prototypes.cts.inventory.CtsWorkMetadata

Represents a CTS Textgroup in XML

CTS_LINKS = []

CTS_MODEL = 'CtsCollection'

CTS_PROPERTIES = [rdflib.term.URIRef('http://chs.harvard.edu/xmlns/cts/title')]

DC_TITLE_KEY = rdflib.term.URIRef('http://chs.harvard.edu/xmlns/cts/title')

DEFAULT_EXPORT = 'python/xml'

EXPORT_TO = ['text/xml:CTS', 'text/xml:CTS_CapiTainS']

MODEL_URI = rdflib.term.URIRef('http://w3id.org/dts-ontology/collection')

TYPE_URI = rdflib.term.URIRef('http://chs.harvard.edu/xmlns/cts/work')

asNode ()

Node representation of the collection in the graph

Return type URIRef

capabilities**children**

Dictionary of childrens {Identifier: Collection}

Return type `dict`

descendants

Any descendant (no max level) of the collection's item

Return type [Collection]

export (*output=None, **kwargs*)

Export the collection item in the Mimetype required.

Parameters **output** (*str*) – Mimetype to export to (Uses MyCapytain.common.utils.Mimetypes)

Returns Object using a different representation

export_capacities

List Mimetypes that current object can export to

get_cts_property (*prop, lang=None*)

Set given property in CTS Namespace

Parameters

- **prop** – Property to get (Without namespace)
- **lang** – Language to get for given value

Returns Value or default if lang is set, else whole set of values

Return type `dict` or Literal

get_label (*lang=None*)

Return label for given lang or any default

Parameters **lang** – Language to request

Returns Label value

Return type Literal

get_link (*prop*)

Get given link in CTS Namespace

Parameters **prop** – Property to get (Without namespace)

Returns whole set of values

Return type `list`

get_translation_in (*key=None*)

Find a translation with given language

Parameters **key** (*text_type*) – Language to find

Return type [CtsTextMetadata]

Returns List of available translations

graph

RDFLib Graph space

Return type Graph

id

lang

Languages this text is in

Returns List of available languages

members

Children of the collection's item

Return type [Collection]

metadata

model

parent

Parent of current object

Return type Collection

parents

Iterator to find parents of current collection, from closest to furthest

Return type Generator[Collection]

static parse (*resource*, *parent=None*)

Parse a resource

Parameters

- **resource** – Element representing a work
- **type** – basestring, etree._Element
- **parent** (*XmlCtsTextgroupMetadata*) – Parent of the object

readable

Readable property should return elements where the element can be queried for `getPassage / getReffs`

readableDescendants

List of element available which are readable

Return type [Collection]

set_cts_property (*prop*, *value*, *lang=None*)

Set given property in CTS Namespace

Parameters

- **prop** – Property to set (Without namespace)
- **value** – Value to set for given property
- **lang** – Language to set for given value

set_label (*label*, *lang*)

Add the label of the collection in given lang

Parameters

- **label** – Label Value
- **lang** – Language code

set_link (*prop*, *value*)

Set given link in CTS Namespace

Parameters

- **prop** – Property to set (Without namespace)
- **value** – Value to set for given property

size**texts**

Texts

Returns Dictionary of texts**Return type** defaultdict(PrototypeTexts)**type****update** (*other*)

Merge two XmlCtsWorkMetadata Objects.

- Original (left Object) keeps his parent.
- Added document overwrite text if it already exists

Parameters **other** (*CtsWorkMetadata*) – XmlCtsWorkMetadata object**Returns** XmlCtsWorkMetadata Object**Rtype** XmlCtsWorkMetadata**urn****version**`MyCapytain.resources.collections.cts.xpathDict (xml, xpath, cls, parent, **kwargs)`

Returns a default Dict given certain information

Parameters

- **xml** (*etree*) – An xml tree
- **xpath** (*str*) – XPath to find children
- **cls** (*inventory.Resource*) – Class identifying children
- **parent** (*CtsCollection*) – Parent of object

Return type collections.defaultdict.<basestring, inventory.Resource>**Returns** Dictionary of children**CTS Inventory Prototypes**

```
class MyCapytain.resources.prototypes.cts.inventory.CtsCommentaryMetadata (urn='',
                                                                    par-
                                                                    ent=None,
                                                                    lang=None)
```

Bases: `MyCapytain.resources.prototypes.cts.inventory.CtsTextMetadata`

Represents a CTS Commentary

Parameters

- **urn** (*str*) – Identifier of the PrototypeText
- **parent** (*PrototypeWork*) – Parent of current item

- **lang** (*Lang*) – Language of the commentary

CTS_LINKS = [rdflib.term.URIRef('http://chs.harvard.edu/xmlns/cts/about')]

CTS_MODEL = 'CtsCollection'

CTS_PROPERTIES = [rdflib.term.URIRef('http://chs.harvard.edu/xmlns/cts/label'), rdflib.term.URIRef('http://chs.harvard.edu/xmlns/cts/label')]

DC_TITLE_KEY = rdflib.term.URIRef('http://chs.harvard.edu/xmlns/cts/label')

DEFAULT_EXPORT = 'python/xml'

EXPORT_TO = ['text/xml:CTS', 'text/xml:CTS_CapiTainS']

MODEL_URI = rdflib.term.URIRef('http://w3id.org/dts-ontology/resource')

SUBTYPE = 'commentary'

TYPE_URI = rdflib.term.URIRef('http://chs.harvard.edu/xmlns/cts/commentary')

asNode ()

Node representation of the collection in the graph

Return type URIRef

capabilities

children

Dictionary of childrens {Identifier: Collection}

Return type dict

descendants

Descendants of the collection's item

Warning: CapitainsCtsText has no Descendants

Return type list

editions ()

Get all editions of the texts

Returns List of editions

Return type [CtsTextMetadata]

export (*output=None, **kwargs*)

Export the collection item in the Mimetype required.

Parameters **output** (*str*) – Mimetype to export to (Uses MyCapytain.common.utils.Mimetypes)

Returns Object using a different representation

export_capacities

List Mimetypes that current object can export to

get_creator (*lang=None*)

Get the DC Creator literal value

Parameters **lang** – Language to retrieve

Returns Creator string representation

Return type Literal

get_cts_property (*prop*, *lang=None*)

Set given property in CTS Namespace

Parameters

- **prop** – Property to get (Without namespace)
- **lang** – Language to get for given value

Returns Value or default if lang is set, else whole set of values

Return type dict or Literal

get_description (*lang=None*)

Get the DC description of the object

Parameters **lang** – Lang to retrieve

Returns Description string representation

Return type Literal

get_label (*lang=None*)

Return label for given lang or any default

Parameters **lang** – Language to request

Returns Label value

Return type Literal

get_link (*prop*)

Get given link in CTS Namespace

Parameters **prop** – Property to get (Without namespace)

Returns whole set of values

Return type list

get_subject (*lang=None*)

Get the DC subject of the object

Parameters **lang** – Lang to retrieve

Returns Subject string representation

Return type Literal

get_title (*lang=None*)

Get the DC Title of the object

Parameters **lang** – Lang to retrieve

Returns Title string representation

Return type Literal

graph

RDFLib Graph space

Return type Graph

id

lang

Languages this text is in

Returns List of available languages

members

Children of the collection's item

Warning: CapitainsCtsText has no children

Return type *list*

metadata

model

parent

Parent of current object

Return type Collection

parents

Iterator to find parents of current collection, from closest to furthest

Return type Generator[Collection]

readable

readableDescendants

List of element available which are readable

Return type [Collection]

set_cts_property (*prop, value, lang=None*)

Set given property in CTS Namespace

Parameters

- **prop** – Property to set (Without namespace)
- **value** – Value to set for given property
- **lang** – Language to set for given value

set_label (*label, lang*)

Add the label of the collection in given lang

Parameters

- **label** – Label Value
- **lang** – Language code

set_link (*prop, value*)

Set given link in CTS Namespace

Parameters

- **prop** – Property to set (Without namespace)
- **value** – Value to set for given property

size

subtype

Subtype of the object

Returns string representation of subtype

translations (*key=None*)

Get translations in given language

Parameters **key** – Language ISO Code to filter on

Returns

type

urn

version

```
class MyCapytain.resources.prototypes.cts.inventory.CtsEditionMetadata (urn='',
                                                                    par-
                                                                    ent=None,
                                                                    lang=None)
```

Bases: MyCapytain.resources.prototypes.cts.inventory.CtsTextMetadata

Represents a CTS XmlCtsEditionMetadata

Parameters

- **urn** (*str*) – Identifier of the CtsTextMetadata
- **parent** (*CtsWorkMetadata*) – Parent of current item

CTS_LINKS = [rdflib.term.URIRef('http://chs.harvard.edu/xmlns/cts/about')]

CTS_MODEL = 'CtsCollection'

CTS_PROPERTIES = [rdflib.term.URIRef('http://chs.harvard.edu/xmlns/cts/label'), rdflib.term.URIRef('http://chs.harvard.edu/xmlns/cts/label')]

DC_TITLE_KEY = rdflib.term.URIRef('http://chs.harvard.edu/xmlns/cts/label')

DEFAULT_EXPORT = 'python/xml'

EXPORT_TO = ['text/xml:CTS', 'text/xml:CTS_CapiTainS']

MODEL_URI = rdflib.term.URIRef('http://w3id.org/dts-ontology/resource')

SUBTYPE = 'edition'

TYPE_URI = rdflib.term.URIRef('http://chs.harvard.edu/xmlns/cts/edition')

asNode ()

Node representation of the collection in the graph

Return type URIRef

capabilities

children

Dictionary of childrens {Identifier: Collection}

Return type dict

descendants

Descendants of the collection's item

Warning: CapitainsCtsText has no Descendants

Return type list

editions ()

Get all editions of the texts

Returns List of editions

Return type [CtsTextMetadata]

export (*output=None, **kwargs*)

Export the collection item in the Mimetype required.

Parameters **output** (*str*) – Mimetype to export to (Uses MyCapytain.common.utils.Mimetypes)

Returns Object using a different representation

export_capacities

List Mimetypes that current object can export to

get_creator (*lang=None*)

Get the DC Creator literal value

Parameters **lang** – Language to retrieve

Returns Creator string representation

Return type Literal

get_cts_property (*prop, lang=None*)

Set given property in CTS Namespace

Parameters

- **prop** – Property to get (Without namespace)
- **lang** – Language to get for given value

Returns Value or default if lang is set, else whole set of values

Return type dict or Literal

get_description (*lang=None*)

Get the DC description of the object

Parameters **lang** – Lang to retrieve

Returns Description string representation

Return type Literal

get_label (*lang=None*)

Return label for given lang or any default

Parameters **lang** – Language to request

Returns Label value

Return type Literal

get_link (*prop*)

Get given link in CTS Namespace

Parameters **prop** – Property to get (Without namespace)

Returns whole set of values

Return type list

get_subject (*lang=None*)

Get the DC subject of the object

Parameters **lang** – Lang to retrieve

Returns Subject string representation

Return type Literal

get_title (*lang=None*)

Get the DC Title of the object

Parameters **lang** – Lang to retrieve

Returns Title string representation

Return type Literal

graph

RDFLib Graph space

Return type Graph

id

lang

Languages this text is in

Returns List of available languages

members

Children of the collection's item

Warning: CapitainsCtsText has no children

Return type *list*

metadata

model

parent

Parent of current object

Return type Collection

parents

Iterator to find parents of current collection, from closest to furthest

Return type Generator[Collection]

readable

readableDescendants

List of element available which are readable

Return type [Collection]

set_cts_property (*prop, value, lang=None*)

Set given property in CTS Namespace

Parameters

- **prop** – Property to set (Without namespace)
- **value** – Value to set for given property
- **lang** – Language to set for given value

set_label (*label, lang*)

Add the label of the collection in given lang

Parameters

- **label** – Label Value
- **lang** – Language code

set_link (*prop, value*)

Set given link in CTS Namespace

Parameters

- **prop** – Property to set (Without namespace)
- **value** – Value to set for given property

size

subtype

Subtype of the object

Returns string representation of subtype

translations (*key=None*)

Get translations in given language

Parameters **key** – Language ISO Code to filter on

Returns

type

urn

version

class MyCapytain.resources.prototypes.cts.inventory.CtsTextInventoryCollection (*identifier='default'*)

Bases: MyCapytain.resources.prototypes.cts.inventory.PrototypeCtsCollection

Initiate a CtsTextInventoryMetadata resource

Parameters

- **resource** (*Any*) – Resource representing the CtsTextInventoryMetadata
- **name** (*str*) – Identifier of the CtsTextInventoryMetadata

CTS_LINKS = []

CTS_MODEL = 'CtsCollection'

CTS_PROPERTIES = []

DC_TITLE_KEY = rdflib.term.URIRef('http://chs.harvard.edu/xmlns/cts/name')

DEFAULT_EXPORT = 'python/xml'

EXPORT_TO = ['text/xml:CTS', 'application/ld+json:DTS', 'text/xml:CTS_CapiTainS']

MODEL_URI = rdflib.term.URIRef('http://w3id.org/dts-ontology/collection')

TYPE_URI = rdflib.term.URIRef('http://chs.harvard.edu/xmlns/cts/CtsTextInventoryCollection')

asNode ()

Node representation of the collection in the graph

Return type URIRef

capabilities**children**

Dictionary of childrens {Identifier: Collection}

Return type *dict*

descendants

Any descendant (no max level) of the collection's item

Return type [Collection]

export (*output=None, **kwargs*)

Export the collection item in the Mimetype required.

Parameters **output** (*str*) – Mimetype to export to (Uses MyCapytain.common.utils.Mimetypes)

Returns Object using a different representation

export_capacities

List Mimetypes that current object can export to

get_cts_property (*prop, lang=None*)

Set given property in CTS Namespace

Parameters

- **prop** – Property to get (Without namespace)
- **lang** – Language to get for given value

Returns Value or default if lang is set, else whole set of values

Return type *dict* or Literal

get_label (*lang=None*)

Return label for given lang or any default

Parameters **lang** – Language to request

Returns Label value

Return type Literal

get_link (*prop*)

Get given link in CTS Namespace

Parameters **prop** – Property to get (Without namespace)

Returns whole set of values

Return type *list*

graph

RDFLib Graph space

Return type Graph

id**members**

Children of the collection's item

Return type [Collection]

metadata

model

parent

Parent of current object

Return type Collection

parents

Iterator to find parents of current collection, from closest to furthest

Return type Generator[Collection]

readable

Readable property should return elements where the element can be queried for `getPassage / getReffs`

readableDescendants

List of element available which are readable

Return type [Collection]

set_cts_property (*prop, value, lang=None*)

Set given property in CTS Namespace

Parameters

- **prop** – Property to set (Without namespace)
- **value** – Value to set for given property
- **lang** – Language to set for given value

set_label (*label, lang*)

Add the label of the collection in given lang

Parameters

- **label** – Label Value
- **lang** – Language code

set_link (*prop, value*)

Set given link in CTS Namespace

Parameters

- **prop** – Property to set (Without namespace)
- **value** – Value to set for given property

size

type

urn

version

class `MyCapytain.resources.prototypes.cts.inventory.CtsTextInventoryMetadata` (*name='defaultInventory', parent=None*)

Bases: `MyCapytain.resources.prototypes.cts.inventory.PrototypeCtsCollection`

Initiate a `CtsTextInventoryMetadata` resource

Parameters

- **resource** (*Any*) – Resource representing the `CtsTextInventoryMetadata`
- **name** (*str*) – Identifier of the `CtsTextInventoryMetadata`

```

CTS_LINKS = []
CTS_MODEL = 'CtsCollection'
CTS_PROPERTIES = []
DC_TITLE_KEY = rdflib.term.URIRef('http://chs.harvard.edu/xmlns/cts/name')
DEFAULT_EXPORT = 'python/xml'
EXPORT_TO = ['text/xml:CTS', 'text/xml:CTS_CapiTainS']
MODEL_URI = rdflib.term.URIRef('http://w3id.org/dts-ontology/collection')
TYPE_URI = rdflib.term.URIRef('http://chs.harvard.edu/xmlns/cts/TextInventory')

```

asNode()
Node representation of the collection in the graph

Return type URIRef

capabilities

children
Dictionary of childrens {Identifier: Collection}

Return type dict

descendants
Any descendant (no max level) of the collection's item

Return type [Collection]

export (*output=None, **kwargs*)
Export the collection item in the Mimetype required.

Parameters **output** (*str*) – Mimetype to export to (Uses MyCapytain.common.utils.Mimetypes)

Returns Object using a different representation

export_capacities
List Mimetypes that current object can export to

get_cts_property (*prop, lang=None*)
Set given property in CTS Namespace

Parameters

- **prop** – Property to get (Without namespace)
- **lang** – Language to get for given value

Returns Value or default if lang is set, else whole set of values

Return type dict or Literal

get_label (*lang=None*)
Return label for given lang or any default

Parameters **lang** – Language to request

Returns Label value

Return type Literal

get_link (*prop*)
Get given link in CTS Namespace

Parameters **prop** – Property to get (Without namespace)

Returns whole set of values

Return type *list*

graph

RDFLib Graph space

Return type Graph

id

members

Children of the collection's item

Return type [Collection]

metadata

model

parent

Parent of current object

Return type Collection

parents

Iterator to find parents of current collection, from closest to furthest

Return type Generator[Collection]

readable

Readable property should return elements where the element can be queried for `getPassage / getReffs`

readableDescendants

List of element available which are readable

Return type [Collection]

set_cts_property (*prop, value, lang=None*)

Set given property in CTS Namespace

Parameters

- **prop** – Property to set (Without namespace)
- **value** – Value to set for given property
- **lang** – Language to set for given value

set_label (*label, lang*)

Add the label of the collection in given lang

Parameters

- **label** – Label Value
- **lang** – Language code

set_link (*prop, value*)

Set given link in CTS Namespace

Parameters

- **prop** – Property to set (Without namespace)
- **value** – Value to set for given property

size**textgroups**

Textgroups

Returns Dictionary of textgroups**Return type** defaultdict(CtsTextgroupMetadata)**type****urn****version**

```
class MyCapytain.resources.prototypes.cts.inventory.CtsTextMetadata (urn='', parent=None, lang=None)
```

Bases: MyCapytain.resources.prototypes.metadata.ResourceCollection, MyCapytain.resources.prototypes.cts.inventory.PrototypeCtsCollection

Represents a CTS CtsTextMetadata

Parameters

- **urn** (URN) – Identifier of the CtsTextMetadata
- **parent** ([PrototypeCtsCollection]) – Item parents of the current collection

Variables *urn* – URN Identifier

CTS_LINKS = [rdflib.term.URIRef('http://chs.harvard.edu/xmlns/cts/about')]

CTS_MODEL = 'CtsCollection'

CTS_PROPERTIES = [rdflib.term.URIRef('http://chs.harvard.edu/xmlns/cts/label'), rdflib.term.URIRef('http://chs.harvard.edu/xmlns/cts/label')]

DC_TITLE_KEY = rdflib.term.URIRef('http://chs.harvard.edu/xmlns/cts/label')

DEFAULT_EXPORT = 'python/xml'

EXPORT_TO = ['text/xml:CTS', 'text/xml:CTS_CapiTainS']

MODEL_URI = rdflib.term.URIRef('http://w3id.org/dts-ontology/resource')

SUBTYPE = 'unknown'

TYPE_URI = rdflib.term.URIRef('http://chs.harvard.edu/xmlns/cts/text')

asNode ()

Node representation of the collection in the graph

Return type URIRef**capabilities****children**

Dictionary of childrens {Identifier: Collection}

Return type dict**descendants**

Descendants of the collection's item

Warning: CapitainsCtsText has no Descendants

Return type *list*

editions ()

Get all editions of the texts

Returns List of editions

Return type [CtsTextMetadata]

export (*output=None, **kwargs*)

Export the collection item in the Mimetype required.

Parameters **output** (*str*) – Mimetype to export to (Uses MyCapytain.common.utils.Mimetypes)

Returns Object using a different representation

export_capacities

List Mimetypes that current object can export to

get_creator (*lang=None*)

Get the DC Creator literal value

Parameters **lang** – Language to retrieve

Returns Creator string representation

Return type Literal

get_cts_property (*prop, lang=None*)

Set given property in CTS Namespace

Parameters

- **prop** – Property to get (Without namespace)
- **lang** – Language to get for given value

Returns Value or default if lang is set, else whole set of values

Return type *dict* or Literal

get_description (*lang=None*)

Get the DC description of the object

Parameters **lang** – Lang to retrieve

Returns Description string representation

Return type Literal

get_label (*lang=None*)

Return label for given lang or any default

Parameters **lang** – Language to request

Returns Label value

Return type Literal

get_link (*prop*)

Get given link in CTS Namespace

Parameters **prop** – Property to get (Without namespace)

Returns whole set of values

Return type *list*

get_subject (*lang=None*)

Get the DC subject of the object

Parameters **lang** – Lang to retrieve

Returns Subject string representation

Return type Literal

get_title (*lang=None*)

Get the DC Title of the object

Parameters **lang** – Lang to retrieve

Returns Title string representation

Return type Literal

graph

RDFLib Graph space

Return type Graph

id

lang

Languages this text is in

Returns List of available languages

members

Children of the collection's item

Warning: CapitainsCtsText has no children

Return type *list*

metadata

model

parent

Parent of current object

Return type Collection

parents

Iterator to find parents of current collection, from closest to furthest

Return type Generator[Collection]

readable

readableDescendants

List of element available which are readable

Return type [Collection]

set_cts_property (*prop, value, lang=None*)

Set given property in CTS Namespace

Parameters

- **prop** – Property to set (Without namespace)

- **value** – Value to set for given property
- **lang** – Language to set for given value

set_label (*label, lang*)

Add the label of the collection in given lang

Parameters

- **label** – Label Value
- **lang** – Language code

set_link (*prop, value*)

Set given link in CTS Namespace

Parameters

- **prop** – Property to set (Without namespace)
- **value** – Value to set for given property

size

subtype

Subtype of the object

Returns string representation of subtype

translations (*key=None*)

Get translations in given language

Parameters **key** – Language ISO Code to filter on

Returns

type

urn

version

```
class MyCapytain.resources.prototypes.cts.inventory.CtsTextgroupMetadata (urn='',
                                                                    par-
                                                                    ent=None)
```

Bases: MyCapytain.resources.prototypes.cts.inventory.PrototypeCtsCollection

Represents a CTS Textgroup

CTS CtsTextgroupMetadata can be added to each other which would most likely happen if you take your data from multiple API or Textual repository. This works close to dictionary update in Python. See update

Parameters

- **urn** (URN) – Identifier of the CtsTextgroupMetadata
- **parent** (*CtsTextInventoryMetadata*) – Parent of the current object

Variables **urn** – URN Identifier

CTS_LINKS = []

CTS_MODEL = 'CtsCollection'

CTS_PROPERTIES = [rdflib.term.URIRef('http://chs.harvard.edu/xmlns/cts/groupname')]

DC_TITLE_KEY = rdflib.term.URIRef('http://chs.harvard.edu/xmlns/cts/groupname')

DEFAULT_EXPORT = 'python/xml'

EXPORT_TO = ['text/xml:CTS', 'text/xml:CTS_CapiTainS']

MODEL_URI = rdflib.term.URIRef('http://w3id.org/dts-ontology/collection')

TYPE_URI = rdflib.term.URIRef('http://chs.harvard.edu/xmlns/cts/textgroup')

asNode ()

Node representation of the collection in the graph

Return type URIRef

capabilities

children

Dictionary of childrens {Identifier: Collection}

Return type dict

descendants

Any descendant (no max level) of the collection's item

Return type [Collection]

export (*output=None, **kwargs*)

Export the collection item in the Mimetype required.

Parameters **output** (*str*) – Mimetype to export to (Uses MyCapytain.common.utils.Mimetypes)

Returns Object using a different representation

export_capacities

List Mimetypes that current object can export to

get_cts_property (*prop, lang=None*)

Set given property in CTS Namespace

Parameters

- **prop** – Property to get (Without namespace)
- **lang** – Language to get for given value

Returns Value or default if lang is set, else whole set of values

Return type dict or Literal

get_label (*lang=None*)

Return label for given lang or any default

Parameters **lang** – Language to request

Returns Label value

Return type Literal

get_link (*prop*)

Get given link in CTS Namespace

Parameters **prop** – Property to get (Without namespace)

Returns whole set of values

Return type list

graph

RDFLib Graph space

Return type Graph

id

members

Children of the collection's item

Return type [Collection]

metadata

model

parent

Parent of current object

Return type Collection

parents

Iterator to find parents of current collection, from closest to furthest

Return type Generator[Collection]

readable

Readable property should return elements where the element can be queried for `getPassage / getReffs`

readableDescendants

List of element available which are readable

Return type [Collection]

set_cts_property (*prop, value, lang=None*)

Set given property in CTS Namespace

Parameters

- **prop** – Property to set (Without namespace)
- **value** – Value to set for given property
- **lang** – Language to set for given value

set_label (*label, lang*)

Add the label of the collection in given lang

Parameters

- **label** – Label Value
- **lang** – Language code

set_link (*prop, value*)

Set given link in CTS Namespace

Parameters

- **prop** – Property to set (Without namespace)
- **value** – Value to set for given property

size

type

update (*other*)

Merge two Textgroup Objects.

- Original (left Object) keeps his parent.

- Added document merges with work if it already exists

Parameters **other** (*CtsTextgroupMetadata*) – Textgroup object

Returns Textgroup Object

Return type CtsTextgroupMetadata

urn

version

works

Works

Returns Dictionary of works

Return type defaultdict(PrototypeWorks)

```
class MyCapytain.resources.prototypes.cts.inventory.CtsTranslationMetadata (urn='',
                                                                    par-
                                                                    ent=None,
                                                                    lang=None)
```

Bases: MyCapytain.resources.prototypes.cts.inventory.CtsTextMetadata

Represents a CTS XmlCtsTranslationMetadata

Parameters

- **urn** (*str*) – Identifier of the CtsTextMetadata
- **parent** (*CtsWorkMetadata*) – Parent of current item
- **lang** (*Lang*) – Language of the translation

CTS_LINKS = [rdflib.term.URIRef('http://chs.harvard.edu/xmlns/cts/about')]

CTS_MODEL = 'CtsCollection'

CTS_PROPERTIES = [rdflib.term.URIRef('http://chs.harvard.edu/xmlns/cts/label'), rdflib.term.URIRef('http://chs.harvard.edu/xmlns/cts/translation')]

DC_TITLE_KEY = rdflib.term.URIRef('http://chs.harvard.edu/xmlns/cts/label')

DEFAULT_EXPORT = 'python/xml'

EXPORT_TO = ['text/xml:CTS', 'text/xml:CTS_CapiTainS']

MODEL_URI = rdflib.term.URIRef('http://w3id.org/dts-ontology/resource')

SUBTYPE = 'translation'

TYPE_URI = rdflib.term.URIRef('http://chs.harvard.edu/xmlns/cts/translation')

asNode ()

Node representation of the collection in the graph

Return type URIRef

capabilities

children

Dictionary of childrens {Identifier: Collection}

Return type dict

descendants

Descendants of the collection's item

Warning: CapitainsCtsText has no Descendants

Return type *list*

editions ()

Get all editions of the texts

Returns List of editions

Return type [CtsTextMetadata]

export (*output=None, **kwargs*)

Export the collection item in the Mimetype required.

Parameters **output** (*str*) – Mimetype to export to (Uses MyCapytain.common.utils.Mimetypes)

Returns Object using a different representation

export_capacities

List Mimetypes that current object can export to

get_creator (*lang=None*)

Get the DC Creator literal value

Parameters **lang** – Language to retrieve

Returns Creator string representation

Return type Literal

get_cts_property (*prop, lang=None*)

Set given property in CTS Namespace

Parameters

- **prop** – Property to get (Without namespace)
- **lang** – Language to get for given value

Returns Value or default if lang is set, else whole set of values

Return type *dict* or Literal

get_description (*lang=None*)

Get the DC description of the object

Parameters **lang** – Lang to retrieve

Returns Description string representation

Return type Literal

get_label (*lang=None*)

Return label for given lang or any default

Parameters **lang** – Language to request

Returns Label value

Return type Literal

get_link (*prop*)

Get given link in CTS Namespace

Parameters **prop** – Property to get (Without namespace)

Returns whole set of values

Return type *list*

get_subject (*lang=None*)

Get the DC subject of the object

Parameters **lang** – Lang to retrieve

Returns Subject string representation

Return type Literal

get_title (*lang=None*)

Get the DC Title of the object

Parameters **lang** – Lang to retrieve

Returns Title string representation

Return type Literal

graph

RDFLib Graph space

Return type Graph

id

lang

Languages this text is in

Returns List of available languages

members

Children of the collection's item

Warning: CapitainsCtsText has no children
--

Return type *list*

metadata

model

parent

Parent of current object

Return type Collection

parents

Iterator to find parents of current collection, from closest to furthest

Return type Generator[Collection]

readable

readableDescendants

List of element available which are readable

Return type [Collection]

set_cts_property (*prop, value, lang=None*)

Set given property in CTS Namespace

Parameters

- **prop** – Property to set (Without namespace)
- **value** – Value to set for given property
- **lang** – Language to set for given value

set_label (*label, lang*)

Add the label of the collection in given lang

Parameters

- **label** – Label Value
- **lang** – Language code

set_link (*prop, value*)

Set given link in CTS Namespace

Parameters

- **prop** – Property to set (Without namespace)
- **value** – Value to set for given property

size

subtype

Subtype of the object

Returns string representation of subtype

translations (*key=None*)

Get translations in given language

Parameters **key** – Language ISO Code to filter on

Returns

type

urn

version

```
class MyCapytain.resources.prototypes.cts.inventory.CtsWorkMetadata (urn=None,
                                                                    par-
                                                                    ent=None)
```

Bases: MyCapytain.resources.prototypes.cts.inventory.PrototypeCtsCollection

Represents a CTS CtsWorkMetadata

CTS CtsWorkMetadata can be added to each other which would most likely happen if you take your data from multiple API or Textual repository. This works close to dictionary update in Python. See update

Parameters

- **urn** (*URN*) – Identifier of the CtsWorkMetadata
- **parent** (*CtsTextgroupMetadata*) – Parent of current object

Variables **urn** – URN Identifier

```
CTS_LINKS = []
```

```
CTS_MODEL = 'CtsCollection'
```

```
CTS_PROPERTIES = [rdflib.term.URIRef('http://chs.harvard.edu/xmlns/cts/title')]
```

`DC_TITLE_KEY = rdflib.term.URIRef('http://chs.harvard.edu/xmlns/cts/title')`

`DEFAULT_EXPORT = 'python/xml'`

`EXPORT_TO = ['text/xml:CTS', 'text/xml:CTS_CapiTainS']`

`MODEL_URI = rdflib.term.URIRef('http://w3id.org/dts-ontology/collection')`

`TYPE_URI = rdflib.term.URIRef('http://chs.harvard.edu/xmlns/cts/work')`

`asNode()`

Node representation of the collection in the graph

Return type `URIRef`

`capabilities`

`children`

Dictionary of childrens {Identifier: Collection}

Return type `dict`

`descendants`

Any descendant (no max level) of the collection's item

Return type `[Collection]`

`export (output=None, **kwargs)`

Export the collection item in the Mime type required.

Parameters `output (str)` – Mime type to export to (Uses `MyCapytain.common.utils.Mimetypes`)

Returns Object using a different representation

`export_capacities`

List Mime types that current object can export to

`get_cts_property (prop, lang=None)`

Set given property in CTS Namespace

Parameters

- `prop` – Property to get (Without namespace)
- `lang` – Language to get for given value

Returns Value or default if lang is set, else whole set of values

Return type `dict` or `Literal`

`get_label (lang=None)`

Return label for given lang or any default

Parameters `lang` – Language to request

Returns Label value

Return type `Literal`

`get_link (prop)`

Get given link in CTS Namespace

Parameters `prop` – Property to get (Without namespace)

Returns whole set of values

Return type `list`

get_translation_in (*key=None*)

Find a translation with given language

Parameters **key** (*text_type*) – Language to find

Return type [CtsTextMetadata]

Returns List of available translations

graph

RDFLib Graph space

Return type Graph

id

lang

Languages this text is in

Returns List of available languages

members

Children of the collection's item

Return type [Collection]

metadata

model

parent

Parent of current object

Return type Collection

parents

Iterator to find parents of current collection, from closest to furthest

Return type Generator[Collection]

readable

Readable property should return elements where the element can be queried for `getPassage / getReffs`

readableDescendants

List of element available which are readable

Return type [Collection]

set_cts_property (*prop, value, lang=None*)

Set given property in CTS Namespace

Parameters

- **prop** – Property to set (Without namespace)
- **value** – Value to set for given property
- **lang** – Language to set for given value

set_label (*label, lang*)

Add the label of the collection in given lang

Parameters

- **label** – Label Value
- **lang** – Language code

set_link (*prop, value*)

Set given link in CTS Namespace

Parameters

- **prop** – Property to set (Without namespace)
- **value** – Value to set for given property

size

texts

Texts

Returns Dictionary of texts

Return type defaultdict(PrototypeTexts)

type

update (*other*)

Merge two XmlCtsWorkMetadata Objects.

- Original (left Object) keeps his parent.
- Added document overwrite text if it already exists

Parameters **other** (*CtsWorkMetadata*) – XmlCtsWorkMetadata object

Returns XmlCtsWorkMetadata Object

Rtype XmlCtsWorkMetadata

urn

version

class MyCapytain.resources.prototypes.cts.inventory.**PrototypeCtsCollection** (*identifier=''*)

Bases: MyCapytain.resources.prototypes.metadata.Collection

Resource represents any resource from the inventory

Parameters **identifier** (*str, URN*) – Identifier representing the CtsTextInventoryMetadata

Variables **CTS_MODEL** – String Representation of the type of collection

CTS_LINKS = []

CTS_MODEL = 'CtsCollection'

CTS_PROPERTIES = []

DC_TITLE_KEY = None

DEFAULT_EXPORT = 'python/lxml'

EXPORT_TO = ['python/lxml']

MODEL_URI = rdflib.term.URIRef('http://w3id.org/dts-ontology/collection')

TYPE_URI = rdflib.term.URIRef('http://w3id.org/dts-ontology/collection')

asNode ()

Node representation of the collection in the graph

Return type URIRef

capabilities

children

Dictionary of childrens {Identifier: Collection}

Return type `dict`

descendants

Any descendant (no max level) of the collection's item

Return type [Collection]

export (*output=None, **kwargs*)

Export the collection item in the Mimetype required.

Parameters **output** (*str*) – Mimetype to export to (Uses MyCapytain.common.utils.Mimetypes)

Returns Object using a different representation

export_capacities

List Mimetypes that current object can export to

get_cts_property (*prop, lang=None*)

Set given property in CTS Namespace

Parameters

- **prop** – Property to get (Without namespace)
- **lang** – Language to get for given value

Returns Value or default if lang is set, else whole set of values

Return type `dict` or Literal

get_label (*lang=None*)

Return label for given lang or any default

Parameters **lang** – Language to request

Returns Label value

Return type Literal

get_link (*prop*)

Get given link in CTS Namespace

Parameters **prop** – Property to get (Without namespace)

Returns whole set of values

Return type `list`

graph

RDFLib Graph space

Return type Graph

id

members

Children of the collection's item

Return type [Collection]

metadata

model

parent

Parent of current object

Return type Collection

parents

Iterator to find parents of current collection, from closest to furthest

Return type Generator[Collection]

readable

Readable property should return elements where the element can be queried for `getPassage / getReffs`

readableDescendants

List of element available which are readable

Return type [Collection]

set_cts_property (*prop, value, lang=None*)

Set given property in CTS Namespace

Parameters

- **prop** – Property to set (Without namespace)
- **value** – Value to set for given property
- **lang** – Language to set for given value

set_label (*label, lang*)

Add the label of the collection in given lang

Parameters

- **label** – Label Value
- **lang** – Language code

set_link (*prop, value*)

Set given link in CTS Namespace

Parameters

- **prop** – Property to set (Without namespace)
- **value** – Value to set for given property

size**type****urn****version****Text Prototypes**

```
class MyCapytain.resources.prototypes.text.CitableText (citation=None, meta-  
data=None, **kwargs)
```

Bases: MyCapytain.resources.prototypes.text.CtsNode

A CTS CitableText

DEFAULT_EXPORT = None

EXPORT_TO = []

asNode ()

childIds

Identifiers of children

Returns Identifiers of children

Return type [str]

children

Children Passages

Return type iterator(*CapitainsCtsPassage*)

citation

XmlCtsCitation Object of the CtsTextMetadata

Returns XmlCtsCitation Object of the CtsTextMetadata

Return type *Citation*

default_exclude = []

depth

Depth of the node in the global hierarchy of the text tree

Return type int

export (*output=None, exclude=None, **kwargs*)

Export the collection item in the Mimetype required.

..note:: If current implementation does not have special mimetypes, reuses default_export method

Parameters

- **output** (*str*) – Mimetype to export to (Uses MyCapytain.common.constants.Mimetypes)
- **exclude** (*[str]*) – Information to exclude. Specific to implementations

Returns Object using a different representation

export_capacities

List Mimetypes that current object can export to

first

First CapitainsCtsPassage

Return type Passage

firstId

First child of current CapitainsCtsPassage

Return type str

Returns First passage node Information

getLabel ()

Retrieve metadata about the text

Return type Collection

Returns Retrieve Label informations in a Collection format

getReffs (*level=1, subreference=None*)

Reference available at a given level

Parameters

- **level** (*Int*) – Depth required. If not set, should retrieve first encountered level (1 based)
- **passage** (*Reference*) – Subreference (optional)

Return type [*text_type*]

Returns List of levels

getTextualNode (*subreference*)

Retrieve a passage and store it in the object

Parameters **subreference** (*str or Node or Reference*) – Reference of the passage to retrieve

Return type TextualNode

Returns Object representing the passage

Raises *TypeError* when reference is not a list or a Reference

getValidReff (*level=1, reference=None*)

Given a resource, CitableText will compute valid reffs

Parameters

- **level** (*Int*) – Depth required. If not set, should retrieve first encountered level (1 based)
- **passage** (*Reference*) – Subreference (optional)

Return type List.*text_type*

Returns List of levels

get_creator (*lang=None*)

Get the DC Creator literal value

Parameters **lang** – Language to retrieve

Returns Creator string representation

Return type Literal

get_cts_metadata (*key, lang=None*)

get_description (*lang=None*)

Get the description of the object

Parameters **lang** – Lang to retrieve

Returns Description string representation

Return type Literal

get_subject (*lang=None*)

Get the subject of the object

Parameters **lang** – Lang to retrieve

Returns Subject string representation

Return type Literal

get_title (*lang=None*)

Get the title of the object

Parameters **lang** – Lang to retrieve

Returns Title string representation

Return type Literal

graph

id

Identifier of the text

Returns Identifier of the text

Return type text_type

last

Last CapitainsCtsPassage

Return type Passage

lastId

Last child of current CapitainsCtsPassage

Return type str

Returns Last passage Node representation

metadata

Metadata information about the text

Returns Collection object with metadata about the text

Return type Metadata

next

Get Next CapitainsCtsPassage

Return type Passage

nextId

Next Node (Sibling)

Return type str

parent

Parent CapitainsCtsPassage

Return type Passage

parentId

Parent Node

Return type str

prev

Get Previous CapitainsCtsPassage

Return type Passage

prevId

Previous Node (Sibling)

Return type str

reffs

Get all valid reffs for every part of the CitableText

Return type [str]

set_creator (*value*, *lang*)

Set the DC Creator literal value

Parameters lang – Language in which the value is

set_description (*value, lang=None*)
Set the DC Description literal value

Parameters lang – Language in which the value is

set_metadata_from_collection (*text_metadata*)
Set the object metadata using its collections recursively

Parameters text_metadata (*CtsEditionMetadata or CtsTranslationMetadata*) – Object representing the current text as a collection

set_subject (*value, lang=None*)
Set the DC Subject literal value

Parameters lang – Language in which the value is

set_title (*value, lang=None*)
Set the DC Title literal value

Parameters lang – Language in which the value is

siblingsId
Siblings Node

Return type (*str, str*)

text
String representation of the text

Returns String representation of the text

Return type *text_type*

urn
URN Identifier of the object

Return type *URN*

class MyCapytain.resources.prototypes.text.CtsNode (*urn=None, **kwargs*)
Bases: MyCapytain.resources.prototypes.text.InteractiveTextualNode

Initiate a Resource object

Parameters

- **urn** (*URN*) – A URN identifier
- **metadata** (*Collection*) – Collection Information about the Item
- **citation** (*Citation*) – XmlCtsCitation system of the text
- **children** (*[str]*) – Current node Children’s Identifier
- **parent** (*str*) – Parent of the current node
- **siblings** (*str*) – Previous and next node of the current node
- **depth** (*int*) – Depth of the node in the global hierarchy of the text tree
- **resource** – Resource used to navigate through the textual graph

Variables *default_exclude* – Default exclude for exports

DEFAULT_EXPORT = None

EXPORT_TO = []

asNode ()

childIds

Identifiers of children

Returns Identifiers of children

Return type [str]

children

Children Passages

Return type iterator(*CapitainsCtsPassage*)

citation

XmlCtsCitation Object of the CtsTextMetadata

Returns XmlCtsCitation Object of the CtsTextMetadata

Return type *Citation*

default_exclude = []

depth

Depth of the node in the global hierarchy of the text tree

Return type int

export (*output=None, exclude=None, **kwargs*)

Export the collection item in the Mimetype required.

..note:: If current implementation does not have special mimetypes, reuses default_export method

Parameters

- **output** (*str*) – Mimetype to export to (Uses MyCapytain.common.constants.Mimetypes)
- **exclude** (*[str]*) – Information to exclude. Specific to implementations

Returns Object using a different representation

export_capacities

List Mimetypes that current object can export to

first

First CapitainsCtsPassage

Return type Passage

firstId

First child of current CapitainsCtsPassage

Return type str

Returns First passage node Information

getLabel ()

Retrieve metadata about the text

Return type Collection

Returns Retrieve Label informations in a Collection format

getReffs (*level=1, subreference=None*)

Reference available at a given level

Parameters

- **level** (*Int*) – Depth required. If not set, should retrieve first encountered level (1 based)
- **passage** (*Reference*) – Subreference (optional)

Return type [*text_type*]

Returns List of levels

getTextualNode (*subreference*)

Retrieve a passage and store it in the object

Parameters **subreference** (*str or Node or Reference*) – Reference of the passage to retrieve

Return type TextualNode

Returns Object representing the passage

Raises *TypeError* when reference is not a list or a Reference

getValidReff (*level=1, reference=None*)

Given a resource, CitableText will compute valid reffs

Parameters

- **level** (*Int*) – Depth required. If not set, should retrieve first encountered level (1 based)
- **passage** (*Reference*) – Subreference (optional)

Return type List.*text_type*

Returns List of levels

get_creator (*lang=None*)

Get the DC Creator literal value

Parameters **lang** – Language to retrieve

Returns Creator string representation

Return type Literal

get_cts_metadata (*key, lang=None*)

get_description (*lang=None*)

Get the description of the object

Parameters **lang** – Lang to retrieve

Returns Description string representation

Return type Literal

get_subject (*lang=None*)

Get the subject of the object

Parameters **lang** – Lang to retrieve

Returns Subject string representation

Return type Literal

get_title (*lang=None*)

Get the title of the object

Parameters **lang** – Lang to retrieve

Returns Title string representation

Return type Literal

graph

id

Identifier of the text

Returns Identifier of the text

Return type text_type

last

Last CapitainsCtsPassage

Return type Passage

lastId

Last child of current CapitainsCtsPassage

Return type str

Returns Last passage Node representation

metadata

Metadata information about the text

Returns Collection object with metadata about the text

Return type Metadata

next

Get Next CapitainsCtsPassage

Return type Passage

nextId

Next Node (Sibling)

Return type str

parent

Parent CapitainsCtsPassage

Return type Passage

parentId

Parent Node

Return type str

prev

Get Previous CapitainsCtsPassage

Return type Passage

prevId

Previous Node (Sibling)

Return type str

set_creator (*value*, *lang*)

Set the DC Creator literal value

Parameters **lang** – Language in which the value is

set_description (*value*, *lang=None*)

Set the DC Description literal value

Parameters lang – Language in which the value is

set_metadata_from_collection (*text_metadata*)
Set the object metadata using its collections recursively

Parameters text_metadata (*CtsEditionMetadata* or *CtsTranslationMetadata*) – Object representing the current text as a collection

set_subject (*value, lang=None*)
Set the DC Subject literal value

Parameters lang – Language in which the value is

set_title (*value, lang=None*)
Set the DC Title literal value

Parameters lang – Language in which the value is

siblingsId
Siblings Node

Return type (*str, str*)

text
String representation of the text

Returns String representation of the text

Return type *text_type*

urn
URN Identifier of the object

Return type *URN*

class MyCapytain.resources.prototypes.text.**InteractiveTextualNode** (*identifier=None, **kwargs*)

Bases: MyCapytain.resources.prototypes.text.TextualGraph

Node representing a text passage.

Parameters

- **identifier** (*str*) – Identifier of the text
- **metadata** (*Collection*) – Collection Information about the Item
- **citation** (*Citation*) – XmlCtsCitation system of the text
- **children** (*[str]*) – Current node Children’s Identifier
- **parent** (*str*) – Parent of the current node
- **siblings** (*str*) – Previous and next node of the current node
- **depth** (*int*) – Depth of the node in the global hierarchy of the text tree
- **resource** – Resource used to navigate through the textual graph

Variables *default_exclude* – Default exclude for exports

DEFAULT_EXPORT = None

EXPORT_TO = []

asNode ()

childIds
Identifiers of children

Returns Identifiers of children

Return type [str]

children

Children Passages

Return type iterator(*CapitainsCtsPassage*)

citation

XmlCtsCitation Object of the CtsTextMetadata

Returns XmlCtsCitation Object of the CtsTextMetadata

Return type *Citation*

default_exclude = []

depth

Depth of the node in the global hierarchy of the text tree

Return type int

export (*output=None, exclude=None, **kwargs*)

Export the collection item in the Mimetype required.

..note:: If current implementation does not have special mimetypes, reuses default_export method

Parameters

- **output** (*str*) – Mimetype to export to (Uses MyCapytain.common.constants.Mimetypes)
- **exclude** (*[str]*) – Information to exclude. Specific to implementations

Returns Object using a different representation

export_capacities

List Mimetypes that current object can export to

first

First CapitainsCtsPassage

Return type Passage

firstId

First child of current CapitainsCtsPassage

Return type str

Returns First passage node Information

getReffs (*level=1, subreference=None*)

Reference available at a given level

Parameters

- **level** (*Int*) – Depth required. If not set, should retrieve first encountered level (1 based)
- **passage** (*Reference*) – Subreference (optional)

Return type [text_type]

Returns List of levels

getTextualNode (*subreference*)

Retrieve a passage and store it in the object

Parameters **subreference** (*str or Node or Reference*) – Reference of the passage to retrieve

Return type TextualNode

Returns Object representing the passage

Raises *TypeError* when reference is not a list or a Reference

get_creator (*lang=None*)

Get the DC Creator literal value

Parameters **lang** – Language to retrieve

Returns Creator string representation

Return type Literal

get_description (*lang=None*)

Get the description of the object

Parameters **lang** – Lang to retrieve

Returns Description string representation

Return type Literal

get_subject (*lang=None*)

Get the subject of the object

Parameters **lang** – Lang to retrieve

Returns Subject string representation

Return type Literal

get_title (*lang=None*)

Get the title of the object

Parameters **lang** – Lang to retrieve

Returns Title string representation

Return type Literal

graph

id

Identifier of the text

Returns Identifier of the text

Return type text_type

last

Last CapitainsCtsPassage

Return type Passage

lastId

Last child of current CapitainsCtsPassage

Return type str

Returns Last passage Node representation

metadata

Metadata information about the text

Returns Collection object with metadata about the text

Return type Metadata

next

Get Next CapitainsCtsPassage

Return type Passage

nextId

Next Node (Sibling)

Return type str

parent

Parent CapitainsCtsPassage

Return type Passage

parentId

Parent Node

Return type str

prev

Get Previous CapitainsCtsPassage

Return type Passage

prevId

Previous Node (Sibling)

Return type str

set_creator (*value*, *lang*)

Set the DC Creator literal value

Parameters **lang** – Language in which the value is

set_description (*value*, *lang=None*)

Set the DC Description literal value

Parameters **lang** – Language in which the value is

set_subject (*value*, *lang=None*)

Set the DC Subject literal value

Parameters **lang** – Language in which the value is

set_title (*value*, *lang=None*)

Set the DC Title literal value

Parameters **lang** – Language in which the value is

siblingsId

Siblings Node

Return type (str, str)

text

String representation of the text

Returns String representation of the text

Return type text_type

class `MyCapytain.resources.prototypes.text.Passage` (***kwargs*)
 Bases: `MyCapytain.resources.prototypes.text.CtsNode`

CapitainsCtsPassage objects possess metadata informations

Parameters

- **urn** (*URN*) – A URN identifier
- **metadata** (*Collection*) – Collection Information about the Item
- **citation** (*Citation*) – XmlCtsCitation system of the text
- **children** (*[str]*) – Current node Children’s Identifier
- **parent** (*str*) – Parent of the current node
- **siblings** (*str*) – Previous and next node of the current node
- **depth** (*int*) – Depth of the node in the global hierarchy of the text tree
- **resource** – Resource used to navigate through the textual graph

Variables `default_exclude` – Default exclude for exports

`DEFAULT_EXPORT = None`

`EXPORT_TO = []`

`asNode ()`

`childIds`

Identifiers of children

Returns Identifiers of children

Return type `[str]`

`children`

Children Passages

Return type `iterator(CapitainsCtsPassage)`

`citation`

XmlCtsCitation Object of the CtsTextMetadata

Returns XmlCtsCitation Object of the CtsTextMetadata

Return type `Citation`

`default_exclude = []`

`depth`

Depth of the node in the global hierarchy of the text tree

Return type `int`

`export (output=None, exclude=None, **kwargs)`

Export the collection item in the Mimetype required.

..note:: If current implementation does not have special mimetypes, reuses default_export method

Parameters

- **output** (*str*) – Mimetype to export to (Uses `MyCapytain.common.constants.Mimetypes`)
- **exclude** (*[str]*) – Information to exclude. Specific to implementations

Returns Object using a different representation

export_capacities

List Mimetypes that current object can export to

first

First CapitainsCtsPassage

Return type Passage

firstId

First child of current CapitainsCtsPassage

Return type str

Returns First passage node Information

getLabel ()

Retrieve metadata about the text

Return type Collection

Returns Retrieve Label informations in a Collection format

getReffs (*level=1, subreference=None*)

Reference available at a given level

Parameters

- **level** (*Int*) – Depth required. If not set, should retrieve first encountered level (1 based)
- **passage** (*Reference*) – Subreference (optional)

Return type [text_type]

Returns List of levels

getTextualNode (*subreference*)

Retrieve a passage and store it in the object

Parameters **subreference** (*str or Node or Reference*) – Reference of the passage to retrieve

Return type TextualNode

Returns Object representing the passage

Raises *TypeError* when reference is not a list or a Reference

getValidReff (*level=1, reference=None*)

Given a resource, CitableText will compute valid reffs

Parameters

- **level** (*Int*) – Depth required. If not set, should retrieve first encountered level (1 based)
- **passage** (*Reference*) – Subreference (optional)

Return type List.text_type

Returns List of levels

get_creator (*lang=None*)

Get the DC Creator literal value

Parameters **lang** – Language to retrieve

Returns Creator string representation

Return type Literal

get_cts_metadata (*key*, *lang=None*)

get_description (*lang=None*)

Get the description of the object

Parameters **lang** – Lang to retrieve

Returns Description string representation

Return type Literal

get_subject (*lang=None*)

Get the subject of the object

Parameters **lang** – Lang to retrieve

Returns Subject string representation

Return type Literal

get_title (*lang=None*)

Get the title of the object

Parameters **lang** – Lang to retrieve

Returns Title string representation

Return type Literal

graph

id

Identifier of the text

Returns Identifier of the text

Return type text_type

last

Last CapitainsCtsPassage

Return type Passage

lastId

Last child of current CapitainsCtsPassage

Return type str

Returns Last passage Node representation

metadata

Metadata information about the text

Returns Collection object with metadata about the text

Return type Metadata

next

Get Next CapitainsCtsPassage

Return type Passage

nextId

Next Node (Sibling)

Return type str

parent

Parent CapitainsCtsPassage

Return type Passage

parentId

Parent Node

Return type str

prev

Get Previous CapitainsCtsPassage

Return type Passage

prevId

Previous Node (Sibling)

Return type str

reference

set_creator (*value, lang*)

Set the DC Creator literal value

Parameters lang – Language in which the value is

set_description (*value, lang=None*)

Set the DC Description literal value

Parameters lang – Language in which the value is

set_metadata_from_collection (*text_metadata*)

Set the object metadata using its collections recursively

Parameters text_metadata (*CtsEditionMetadata or CtsTranslationMetadata*) – Object representing the current text as a collection

set_subject (*value, lang=None*)

Set the DC Subject literal value

Parameters lang – Language in which the value is

set_title (*value, lang=None*)

Set the DC Title literal value

Parameters lang – Language in which the value is

siblingsId

Siblings Node

Return type (str, str)

text

String representation of the text

Returns String representation of the text

Return type text_type

urn

URN Identifier of the object

Return type URN

class `MyCapytain.resources.prototypes.text.TextualElement` (*identifier=None*, *meta-data=None*)

Bases: `MyCapytain.common.base.Exportable`

Node representing a text passage.

Parameters

- **identifier** (*str*) – Identifier of the text
- **metadata** (*Collection*) – Collection Information about the Item

Variables `default_exclude` – Default exclude for exports

`DEFAULT_EXPORT = None`

`EXPORT_TO = []`

`asNode ()`

`default_exclude = []`

export (*output=None*, *exclude=None*, ***kwargs*)

Export the collection item in the Mimetype required.

..note:: If current implementation does not have special mimetypes, reuses `default_export` method

Parameters

- **output** (*str*) – Mimetype to export to (Uses `MyCapytain.common.constants.Mimetypes`)
- **exclude** (*[str]*) – Information to exclude. Specific to implementations

Returns Object using a different representation

export_capacities

List Mimitypes that current object can export to

get_creator (*lang=None*)

Get the DC Creator literal value

Parameters `lang` – Language to retrieve

Returns Creator string representation

Return type Literal

get_description (*lang=None*)

Get the description of the object

Parameters `lang` – Lang to retrieve

Returns Description string representation

Return type Literal

get_subject (*lang=None*)

Get the subject of the object

Parameters `lang` – Lang to retrieve

Returns Subject string representation

Return type Literal

get_title (*lang=None*)

Get the title of the object

Parameters `lang` – Lang to retrieve

Returns Title string representation

Return type Literal

graph

id

Identifier of the text

Returns Identifier of the text

Return type `text_type`

metadata

Metadata information about the text

Returns Collection object with metadata about the text

Return type Metadata

set_creator (*value, lang*)

Set the DC Creator literal value

Parameters `lang` – Language in which the value is

set_description (*value, lang=None*)

Set the DC Description literal value

Parameters `lang` – Language in which the value is

set_subject (*value, lang=None*)

Set the DC Subject literal value

Parameters `lang` – Language in which the value is

set_title (*value, lang=None*)

Set the DC Title literal value

Parameters `lang` – Language in which the value is

text

String representation of the text

Returns String representation of the text

Return type `text_type`

class `MyCapytain.resources.prototypes.text.TextualGraph` (*identifier=None, **kwargs*)

Bases: `MyCapytain.resources.prototypes.text.TextualNode`

Node representing a text passage.

Parameters

- **identifier** (*str*) – Identifier of the text
- **metadata** (*Collection*) – Collection Information about the Item
- **citation** (*Citation*) – XmlCtsCitation system of the text
- **children** (*[str]*) – Current node Children’s Identifier
- **parent** (*str*) – Parent of the current node
- **siblings** (*str*) – Previous and next node of the current node
- **depth** (*int*) – Depth of the node in the global hierarchy of the text tree

- **resource** – Resource used to navigate through the textual graph

Variables **default_exclude** – Default exclude for exports

DEFAULT_EXPORT = None

EXPORT_TO = []

asNode ()

childIds

Children Node

Return type [str]

citation

XmlCtsCitation Object of the CtsTextMetadata

Returns XmlCtsCitation Object of the CtsTextMetadata

Return type *Citation*

default_exclude = []

depth

Depth of the node in the global hierarchy of the text tree

Return type int

export (*output=None, exclude=None, **kwargs*)

Export the collection item in the Mimetype required.

..note:: If current implementation does not have special mimetypes, reuses default_export method

Parameters

- **output** (*str*) – Mimetype to export to (Uses MyCapytain.common.constants.Mimetypes)
- **exclude** (*[str]*) – Information to exclude. Specific to implementations

Returns Object using a different representation

export_capacities

List Mimetypes that current object can export to

firstId

First child Node

Return type str

getReffs (*level=1, subreference=None*)

Reference available at a given level

Parameters

- **level** (*Int*) – Depth required. If not set, should retrieve first encountered level (1 based)
- **passage** (*Reference*) – Subreference (optional)

Return type [text_type]

Returns List of levels

getTextualNode (*subreference*)

Retrieve a passage and store it in the object

Parameters **subreference** (*str or Node or Reference*) – Reference of the passage to retrieve

Return type TextualNode

Returns Object representing the passage

Raises *TypeError* when reference is not a list or a Reference

get_creator (*lang=None*)

Get the DC Creator literal value

Parameters **lang** – Language to retrieve

Returns Creator string representation

Return type Literal

get_description (*lang=None*)

Get the description of the object

Parameters **lang** – Lang to retrieve

Returns Description string representation

Return type Literal

get_subject (*lang=None*)

Get the subject of the object

Parameters **lang** – Lang to retrieve

Returns Subject string representation

Return type Literal

get_title (*lang=None*)

Get the title of the object

Parameters **lang** – Lang to retrieve

Returns Title string representation

Return type Literal

graph

id

Identifier of the text

Returns Identifier of the text

Return type text_type

lastId

Last child Node

Return type str

metadata

Metadata information about the text

Returns Collection object with metadata about the text

Return type Metadata

nextId

Next Node (Sibling)

Return type `str`

parentId

Parent Node

Return type `str`

prevId

Previous Node (Sibling)

Return type `str`

set_creator (*value*, *lang*)

Set the DC Creator literal value

Parameters **lang** – Language in which the value is

set_description (*value*, *lang=None*)

Set the DC Description literal value

Parameters **lang** – Language in which the value is

set_subject (*value*, *lang=None*)

Set the DC Subject literal value

Parameters **lang** – Language in which the value is

set_title (*value*, *lang=None*)

Set the DC Title literal value

Parameters **lang** – Language in which the value is

siblingsId

Siblings Node

Return type (`str`, `str`)

text

String representation of the text

Returns String representation of the text

Return type `text_type`

```
class MyCapytain.resources.prototypes.text.TextualNode (identifier=None, citation=None, **kwargs)
Bases: MyCapytain.resources.prototypes.text.TextualElement, MyCapytain.common.reference.NodeId
```

Node representing a text passage.

Parameters

- **identifier** (*str*) – Identifier of the text
- **metadata** (*Collection*) – Collection Information about the Item
- **citation** (*Citation*) – XmlCtsCitation system of the text
- **children** (*[str]*) – Current node Children’s Identifier
- **parent** (*str*) – Parent of the current node
- **siblings** (*str*) – Previous and next node of the current node
- **depth** (*int*) – Depth of the node in the global hierarchy of the text tree

Variables `default_exclude` – Default exclude for exports

DEFAULT_EXPORT = None

EXPORT_TO = []

asNode ()

childIds

Children Node

Return type [str]

citation

XmlCtsCitation Object of the CtsTextMetadata

Returns XmlCtsCitation Object of the CtsTextMetadata

Return type *Citation*

default_exclude = []

depth

Depth of the node in the global hierarchy of the text tree

Return type int

export (*output=None, exclude=None, **kwargs*)

Export the collection item in the Mimetype required.

..note:: If current implementation does not have special mimetypes, reuses default_export method

Parameters

- **output** (*str*) – Mimetype to export to (Uses MyCapytain.common.constants.Mimetypes)
- **exclude** (*[str]*) – Information to exclude. Specific to implementations

Returns Object using a different representation

export_capacities

List Mimetypes that current object can export to

firstId

First child Node

Return type str

get_creator (*lang=None*)

Get the DC Creator literal value

Parameters lang – Language to retrieve

Returns Creator string representation

Return type Literal

get_description (*lang=None*)

Get the description of the object

Parameters lang – Lang to retrieve

Returns Description string representation

Return type Literal

get_subject (*lang=None*)

Get the subject of the object

Parameters **lang** – Lang to retrieve

Returns Subject string representation

Return type Literal

get_title (*lang=None*)

Get the title of the object

Parameters **lang** – Lang to retrieve

Returns Title string representation

Return type Literal

graph

id

Identifier of the text

Returns Identifier of the text

Return type text_type

lastId

Last child Node

Return type str

metadata

Metadata information about the text

Returns Collection object with metadata about the text

Return type Metadata

nextId

Next Node (Sibling)

Return type str

parentId

Parent Node

Return type str

prevId

Previous Node (Sibling)

Return type str

set_creator (*value, lang*)

Set the DC Creator literal value

Parameters **lang** – Language in which the value is

set_description (*value, lang=None*)

Set the DC Description literal value

Parameters **lang** – Language in which the value is

set_subject (*value, lang=None*)

Set the DC Subject literal value

Parameters **lang** – Language in which the value is

set_title (*value, lang=None*)

Set the DC Title literal value

Parameters `lang` – Language in which the value is

siblingsId

Siblings Node

Return type (`str`, `str`)

text

String representation of the text

Returns String representation of the text

Return type `text_type`

Benchmarks

In the recent attempt to boost our system, we had a look on the performance of MyCapytain with different parser. Even if as 1.0.1 `xmlparser()` is the recommended tool, we highly recommend to switch to `lxml.objectify.parse()` parser for performance. In the following benchmark run with `timeit.sh` on the main repo (You need `PerseusDL/canonical-latinLit` somewhere), the first line is run with `lxml.etree`, the second with `objectify` and the third with a pickled object.

Testing on Seneca, Single Simple Passage

- 100 loops, best of 3: 4.45 msec per loop
- 100 loops, best of 3: 4.15 msec per loop
- 100 loops, best of 3: 3.75 msec per loop

Testing range

- 100 loops, best of 3: 7.63 msec per loop
- 100 loops, best of 3: 7.72 msec per loop
- 100 loops, best of 3: 6.66 msec per loop

Testing with a deeper architecture

- 100 loops, best of 3: 18.2 msec per loop
- 100 loops, best of 3: 14.3 msec per loop
- 100 loops, best of 3: 9.31 msec per loop

Testing with a deeper architecture at the end

- 100 loops, best of 3: 18.2 msec per loop
- 100 loops, best of 3: 14.2 msec per loop
- 100 loops, best of 3: 9.34 msec per loop

Testing with a deeper architecture with range

- 100 loops, best of 3: 19.3 msec per loop
- 100 loops, best of 3: 14.3 msec per loop
- 100 loops, best of 3: 9.9 msec per loop

Testing with complicated XPATH

- 100 loops, best of 3: 751 usec per loop
- 100 loops, best of 3: 770 usec per loop

- 100 loops, best of 3: 617 usec per loop

m

`MyCapytain.common.metadata`, 28
`MyCapytain.common.reference`, 30
`MyCapytain.resources.proto.text`, 123
`MyCapytain.resources.prototypes.cts.inventory`,
97
`MyCapytain.resources.prototypes.metadata`,
70
`MyCapytain.resources.xml`, 74
`MyCapytain.retrievers.cts5`, 33
`MyCapytain.retrievers.protoypes`, 35

Symbols

`__SimplePassage__` (class in `MyCapytain.resources.texts.local.capitains.cts`), 56
`__iter__()` (`MyCapytain.common.reference.Citation` method), 27
`__len__()` (`MyCapytain.common.reference.Citation` method), 28

A

`add()` (`MyCapytain.resolvers.utils.CollectionDispatcher` method), 15
`asNode()` (`MyCapytain.resources.texts.base.tei.TEIResource` method), 43
`asNode()` (`MyCapytain.resources.texts.local.capitains.cts.CapitainsCtsPassage` method), 52
`asNode()` (`MyCapytain.resources.texts.local.capitains.cts.CapitainsCtsText` method), 47
`asNode()` (`MyCapytain.resources.texts.remote.cts.CtsPassage` method), 65
`asNode()` (`MyCapytain.resources.texts.remote.cts.CtsText` method), 61

C

`CapitainsCtsPassage` (class in `MyCapytain.resources.texts.local.capitains.cts`), 51
`CapitainsCtsText` (class in `MyCapytain.resources.texts.local.capitains.cts`), 46
`childIds` (`MyCapytain.common.reference.NodeId` attribute), 24
`childIds` (`MyCapytain.resources.texts.base.tei.TEIResource` attribute), 43
`childIds` (`MyCapytain.resources.texts.local.capitains.cts.__SimplePassage__` attribute), 56
`childIds` (`MyCapytain.resources.texts.local.capitains.cts.CapitainsCtsPassage` attribute), 52
`childIds` (`MyCapytain.resources.texts.local.capitains.cts.CapitainsCtsText` attribute), 47
`childIds` (`MyCapytain.resources.texts.remote.cts.CtsPassage` attribute), 65

`childIds` (`MyCapytain.resources.texts.remote.cts.CtsText` attribute), 61
`children` (`MyCapytain.resources.texts.base.tei.TEIResource` attribute), 43
`children` (`MyCapytain.resources.texts.local.capitains.cts.__SimplePassage__` attribute), 56
`children` (`MyCapytain.resources.texts.local.capitains.cts.CapitainsCtsPassage` attribute), 52
`children` (`MyCapytain.resources.texts.local.capitains.cts.CapitainsCtsText` attribute), 47
`children` (`MyCapytain.resources.texts.remote.cts.CtsPassage` attribute), 66
`children` (`MyCapytain.resources.texts.remote.cts.CtsText` attribute), 61
`Citation` (class in `MyCapytain.common.reference`), 27
`citation` (`MyCapytain.resources.texts.base.tei.TEIResource` attribute), 43
`citation` (`MyCapytain.resources.texts.local.capitains.cts.__SimplePassage__` attribute), 56
`citation` (`MyCapytain.resources.texts.local.capitains.cts.CapitainsCtsPassage` attribute), 52
`citation` (`MyCapytain.resources.texts.local.capitains.cts.CapitainsCtsText` attribute), 47
`citation` (`MyCapytain.resources.texts.remote.cts.CtsPassage` attribute), 66
`citation` (`MyCapytain.resources.texts.remote.cts.CtsText` attribute), 61
`CollectionDispatcher` (class in `MyCapytain.resolvers.utils`), 15
`convert_subreference()` (`MyCapytain.common.reference.Reference` static method), 26
`CtsCapitainsLocalResolver` (class in `MyCapytain.resolvers.cts.local`), 39
`CtsPassage` (class in `MyCapytain.resources.texts.remote.cts`), 65
`CtsText` (class in `MyCapytain.resources.texts.remote.cts`), 61

D

default_exclude	(MyCapytain.resources.texts.base.tei.TEIResource attribute), 43	endpoint	(MyCapytain.resolvers.cts.api.HttpCtsResolver attribute), 38
default_exclude	(MyCapytain.resources.texts.local.capitains.cts.CapitainsCtsPassage attribute), 52	export()	(MyCapytain.resources.texts.base.tei.TEIResource method), 43
default_exclude	(MyCapytain.resources.texts.local.capitains.cts.CapitainsCtsText attribute), 47	export()	(MyCapytain.resources.texts.local.capitains.cts.__SimplePassage__ method), 57
default_exclude	(MyCapytain.resources.texts.remote.cts.CtsPassage attribute), 66	export()	(MyCapytain.resources.texts.local.capitains.cts.CapitainsCtsPassage method), 52
default_exclude	(MyCapytain.resources.texts.remote.cts.CtsText attribute), 61	export()	(MyCapytain.resources.texts.local.capitains.cts.CapitainsCtsText method), 47
DEFAULT_EXPORT	(MyCapytain.resources.texts.base.tei.TEIResource attribute), 43	export()	(MyCapytain.resources.texts.remote.cts.CtsPassage method), 66
DEFAULT_EXPORT	(MyCapytain.resources.texts.local.capitains.cts.CapitainsCtsPassage attribute), 52	export()	(MyCapytain.resources.texts.remote.cts.CtsText method), 61
DEFAULT_EXPORT	(MyCapytain.resources.texts.local.capitains.cts.CapitainsCtsText attribute), 46	export_capacities	(MyCapytain.resources.texts.base.tei.TEIResource attribute), 43
DEFAULT_EXPORT	(MyCapytain.resources.texts.remote.cts.CtsPassage attribute), 65	export_capacities	(MyCapytain.resources.texts.local.capitains.cts.__SimplePassage__ attribute), 57
DEFAULT_EXPORT	(MyCapytain.resources.texts.remote.cts.CtsText attribute), 61	export_capacities	(MyCapytain.resources.texts.local.capitains.cts.CapitainsCtsPassage attribute), 52
DEFAULT_LANG	(MyCapytain.resources.texts.remote.cts.CtsText attribute), 61	export_capacities	(MyCapytain.resources.texts.local.capitains.cts.CapitainsCtsText attribute), 47
depth	(MyCapytain.common.reference.NodeId attribute), 24	export_capacities	(MyCapytain.resources.texts.local.capitains.cts.CapitainsCtsText attribute), 47
depth	(MyCapytain.resources.texts.base.tei.TEIResource attribute), 43	export_capacities	(MyCapytain.resources.texts.remote.cts.CtsPassage attribute), 66
depth	(MyCapytain.resources.texts.local.capitains.cts.__SimplePassage__ attribute), 57	export_capacities	(MyCapytain.resources.texts.remote.cts.CtsText attribute), 62
depth	(MyCapytain.resources.texts.local.capitains.cts.CapitainsCtsPassage attribute), 52	EXPORT_TO	(MyCapytain.resources.texts.base.tei.TEIResource attribute), 43
depth	(MyCapytain.resources.texts.local.capitains.cts.CapitainsCtsText attribute), 47	EXPORT_TO	(MyCapytain.resources.texts.local.capitains.cts.CapitainsCtsPassage attribute), 52
depth	(MyCapytain.resources.texts.remote.cts.CtsPassage attribute), 66	EXPORT_TO	(MyCapytain.resources.texts.local.capitains.cts.CapitainsCtsText attribute), 47
depth	(MyCapytain.resources.texts.remote.cts.CtsText attribute), 61	EXPORT_TO	(MyCapytain.resources.texts.remote.cts.CtsPassage attribute), 65
dispatch()	(MyCapytain.resolvers.utils.CollectionDispatcher method), 15	EXPORT_TO	(MyCapytain.resources.texts.remote.cts.CtsText attribute), 61

F

fill()	(MyCapytain.common.reference.Citation method), 28
first	(MyCapytain.resources.texts.base.tei.TEIResource attribute), 44

first (MyCapytain.resources.texts.local.capitains.cts.__SimplePassagemetadata() (MyCapy-
 attribute), 57 tain.resources.texts.remote.cts.CtsPassage
 first (MyCapytain.resources.texts.local.capitains.cts.CapitainsCtsPassagemethod), 68
 attribute), 53 get_cts_metadata() (MyCapy-
 first (MyCapytain.resources.texts.local.capitains.cts.CapitainsCtsText tain.resources.texts.remote.cts.CtsText
 attribute), 47 method), 63
 first (MyCapytain.resources.texts.remote.cts.CtsPassage get_description() (MyCapy-
 attribute), 66 tain.resources.texts.base.tei.TEIResource
 first (MyCapytain.resources.texts.remote.cts.CtsText at- method), 44
 tribute), 62 get_description() (MyCapy-
 firstId (MyCapytain.common.reference.NodeId attribute), tain.resources.texts.local.capitains.cts.__SimplePassagemethod), 58
 24
 firstId (MyCapytain.resources.texts.base.tei.TEIResource get_description() (MyCapy-
 attribute), 44 tain.resources.texts.local.capitains.cts.CapitainsCtsPassagemethod), 53
 firstId (MyCapytain.resources.texts.local.capitains.cts.__SimplePassagemethod), 53
 attribute), 57 get_description() (MyCapy-
 firstId (MyCapytain.resources.texts.local.capitains.cts.CapitainsCtsPassagemethod), 48
 attribute), 53 tain.resources.texts.local.capitains.cts.CapitainsCtsText
 firstId (MyCapytain.resources.texts.local.capitains.cts.CapitainsCtsText get_description() (MyCapy-
 attribute), 47 tain.resources.texts.remote.cts.CtsPassagemethod), 68
 firstId (MyCapytain.resources.texts.remote.cts.CtsPassage method), 68
 attribute), 66 get_description() (MyCapy-
 firstId (MyCapytain.resources.texts.remote.cts.CtsText tain.resources.texts.remote.cts.CtsText
 attribute), 62 method), 63
 firstUrn() (MyCapytain.resources.texts.remote.cts.CtsPassagemethod), 66
 method), 66 get_subject() (MyCapy-
 firstUrn() (MyCapytain.resources.texts.remote.cts.CtsText tain.resources.texts.base.tei.TEIResource
 method), 62 method), 44
 get_subject() (MyCapy-
 tain.resources.texts.local.capitains.cts.__SimplePassagemethod), 58
G
 get_creator() (MyCapy- get_subject() (MyCapy-
 tain.resources.texts.base.tei.TEIResource tain.resources.texts.local.capitains.cts.CapitainsCtsPassagemethod), 44
 method), 44 method), 54
 get_creator() (MyCapy- get_subject() (MyCapy-
 tain.resources.texts.local.capitains.cts.__SimplePassagemethod), 58 tain.resources.texts.local.capitains.cts.CapitainsCtsText
 method), 48
 get_creator() (MyCapy- get_subject() (MyCapy-
 tain.resources.texts.local.capitains.cts.CapitainsCtsPassagemethod), 53 tain.resources.texts.remote.cts.CtsPassagemethod), 68
 method), 68
 get_creator() (MyCapy- get_subject() (MyCapy-
 tain.resources.texts.local.capitains.cts.CapitainsCtsText tain.resources.texts.remote.cts.CtsText
 method), 48 method), 63
 get_creator() (MyCapy- get_title() (MyCapytain.resources.texts.base.tei.TEIResource
 tain.resources.texts.remote.cts.CtsPassagemethod), 44
 method), 68 get_title() (MyCapytain.resources.texts.local.capitains.cts.__SimplePassagemethod), 58
 get_creator() (MyCapy- get_title() (MyCapytain.resources.texts.local.capitains.cts.CapitainsCtsPassagemethod), 54
 tain.resources.texts.remote.cts.CtsText method), 54
 method), 63
 get_cts_metadata() (MyCapy- get_title() (MyCapytain.resources.texts.local.capitains.cts.CapitainsCtsText
 tain.resources.texts.local.capitains.cts.CapitainsCtsPassagemethod), 49
 method), 53 get_title() (MyCapytain.resources.texts.remote.cts.CtsPassagemethod), 68
 get_cts_metadata() (MyCapy- get_title() (MyCapytain.resources.texts.remote.cts.CtsText
 tain.resources.texts.local.capitains.cts.CapitainsCtsText method), 63
 method), 48

getFirstUrn()	(MyCapytain.resources.texts.remote.cts.CtsPassagemethod), 66	getSiblings()	(MyCapytain.resolvers.cts.api.HttpCtsResolvermethod), 39
getFirstUrn()	(MyCapytain.resources.texts.remote.cts.CtsTextmethod), 62	getSiblings()	(MyCapytain.resolvers.cts.local.CtsCapitainsLocalResolvermethod), 40
getLabel()	(MyCapytain.resources.texts.local.capitains.cts.__SimplePassagemethod), 57	getSiblings()	(MyCapytain.resolvers.prototypes.Resolvermethod), 18
getLabel()	(MyCapytain.resources.texts.local.capitains.cts.CapitainsCtsPassagemethod), 53	getTextualNode()	(MyCapytain.resolvers.cts.api.HttpCtsResolvermethod), 39
getLabel()	(MyCapytain.resources.texts.local.capitains.cts.CapitainsCtsTextmethod), 47	getTextualNode()	(MyCapytain.resolvers.cts.local.CtsCapitainsLocalResolvermethod), 40
getLabel()	(MyCapytain.resources.texts.remote.cts.CtsPassagemethod), 67	getTextualNode()	(MyCapytain.resolvers.cts.local.CtsCapitainsLocalResolvermethod), 19
getLabel()	(MyCapytain.resources.texts.remote.cts.CtsTextmethod), 62	getTextualNode()	(MyCapytain.resolvers.prototypes.Resolvermethod), 19
getMetadata()	(MyCapytain.resolvers.cts.api.HttpCtsResolvermethod), 38	getTextualNode()	(MyCapytain.resources.texts.base.tei.TEIResourcemethod), 44
getMetadata()	(MyCapytain.resolvers.cts.local.CtsCapitainsLocalResolvermethod), 39	getTextualNode()	(MyCapytain.resources.texts.local.capitains.cts.__SimplePassagemethod), 57
getMetadata()	(MyCapytain.resolvers.prototypes.Resolvermethod), 18	getTextualNode()	(MyCapytain.resources.texts.local.capitains.cts.CapitainsCtsPassagemethod), 53
getPassagePlus()	(MyCapytain.resources.texts.remote.cts.CtsPassagemethod), 67	getTextualNode()	(MyCapytain.resources.texts.local.capitains.cts.CapitainsCtsTextmethod), 48
getPassagePlus()	(MyCapytain.resources.texts.remote.cts.CtsTextmethod), 62	getTextualNode()	(MyCapytain.resources.texts.remote.cts.CtsPassagemethod), 67
getPrevNextUrn()	(MyCapytain.resources.texts.remote.cts.CtsPassagemethod), 67	getTextualNode()	(MyCapytain.resources.texts.remote.cts.CtsTextmethod), 63
getPrevNextUrn()	(MyCapytain.resources.texts.remote.cts.CtsTextmethod), 62	getValidReff()	(MyCapytain.resources.texts.local.capitains.cts.__SimplePassagemethod), 57
getReffs()	(MyCapytain.resolvers.cts.api.HttpCtsResolvermethod), 38	getValidReff()	(MyCapytain.resources.texts.local.capitains.cts.CapitainsCtsPassagemethod), 53
getReffs()	(MyCapytain.resolvers.cts.local.CtsCapitainsLocalResolvermethod), 40	getValidReff()	(MyCapytain.resources.texts.local.capitains.cts.CapitainsCtsTextmethod), 48
getReffs()	(MyCapytain.resolvers.prototypes.Resolvermethod), 18	getValidReff()	(MyCapytain.resources.texts.local.capitains.cts.CapitainsCtsTextmethod), 48
getReffs()	(MyCapytain.resources.texts.base.tei.TEIResourcemethod), 44	getValidReff()	(MyCapytain.resources.texts.local.capitains.cts.CapitainsCtsTextmethod), 48
getReffs()	(MyCapytain.resources.texts.local.capitains.cts.__SimplePassagemethod), 57	getValidReff()	(MyCapytain.resources.texts.remote.cts.CtsPassagemethod), 67
getReffs()	(MyCapytain.resources.texts.local.capitains.cts.CapitainsCtsPassagemethod), 53	getValidReff()	(MyCapytain.resources.texts.remote.cts.CtsTextmethod), 63
getReffs()	(MyCapytain.resources.texts.local.capitains.cts.CapitainsCtsTextmethod), 47	graph	(MyCapytain.resources.texts.base.tei.TEIResourceattribute), 45
getReffs()	(MyCapytain.resources.texts.remote.cts.CtsPassagemethod), 67	graph	(MyCapytain.resources.texts.local.capitains.cts.CapitainsCtsPassagemethod), 67
getReffs()	(MyCapytain.resources.texts.remote.cts.CtsTextmethod), 62		

attribute), 54
 graph (MyCapytain.resources.texts.local.capitains.cts.CapitainsCtsText attribute), 49
 graph (MyCapytain.resources.texts.remote.cts.CtsPassage attribute), 68
 graph (MyCapytain.resources.texts.remote.cts.CtsText attribute), 64

H

highest (MyCapytain.common.reference.Reference attribute), 26
 HttpCtsResolver (class in MyCapytain.resolvers.cts.api), 38

I

id (MyCapytain.common.reference.NodeId attribute), 24
 id (MyCapytain.resources.texts.base.tei.TEIResource attribute), 45
 id (MyCapytain.resources.texts.local.capitains.cts.__SimplePassage__ attribute), 58
 id (MyCapytain.resources.texts.local.capitains.cts.CapitainsCtsPassage attribute), 54
 id (MyCapytain.resources.texts.local.capitains.cts.CapitainsCtsText attribute), 49
 id (MyCapytain.resources.texts.remote.cts.CtsPassage attribute), 68
 id (MyCapytain.resources.texts.remote.cts.CtsText attribute), 64
 inventory() (MyCapytain.resolvers.utils.CollectionDispatcher method), 16

L

last (MyCapytain.resources.texts.base.tei.TEIResource attribute), 45
 last (MyCapytain.resources.texts.local.capitains.cts.__SimplePassage__ attribute), 58
 last (MyCapytain.resources.texts.local.capitains.cts.CapitainsCtsPassage attribute), 54
 last (MyCapytain.resources.texts.local.capitains.cts.CapitainsCtsText attribute), 49
 last (MyCapytain.resources.texts.remote.cts.CtsPassage attribute), 68
 last (MyCapytain.resources.texts.remote.cts.CtsText attribute), 64
 lastId (MyCapytain.common.reference.NodeId attribute), 24
 lastId (MyCapytain.resources.texts.base.tei.TEIResource attribute), 45
 lastId (MyCapytain.resources.texts.local.capitains.cts.__SimplePassage__ attribute), 58
 lastId (MyCapytain.resources.texts.local.capitains.cts.CapitainsCtsPassage attribute), 54
 lastId (MyCapytain.resources.texts.local.capitains.cts.CapitainsCtsText attribute), 49

lastId (MyCapytain.resources.texts.remote.cts.CtsPassage attribute), 68
 lastId (MyCapytain.resources.texts.remote.cts.CtsText attribute), 64
 list (MyCapytain.common.reference.Reference attribute), 27

M

metadata (MyCapytain.resources.texts.base.tei.TEIResource attribute), 45
 metadata (MyCapytain.resources.texts.local.capitains.cts.__SimplePassage__ attribute), 59
 metadata (MyCapytain.resources.texts.local.capitains.cts.CapitainsCtsPassage attribute), 54
 metadata (MyCapytain.resources.texts.local.capitains.cts.CapitainsCtsText attribute), 49
 metadata (MyCapytain.resources.texts.remote.cts.CtsPassage attribute), 68
 metadata (MyCapytain.resources.texts.remote.cts.CtsText attribute), 64
 methods (MyCapytain.resolvers.utils.CollectionDispatcher attribute), 16
 model() (MyCapytain.common.reference.URN static method), 25
 MyCapytain.common.metadata (module), 28
 MyCapytain.common.reference (module), 30
 MyCapytain.resources.proto.text (module), 123
 MyCapytain.resources.prototypes.cts.inventory (module), 97
 MyCapytain.resources.prototypes.metadata (module), 70
 MyCapytain.resources.xml (module), 74
 MyCapytain.retrievers.cts5 (module), 33
 MyCapytain.retrievers.protoypes (module), 35

N

namespace (MyCapytain.common.reference.URN attribute), 25
 next (MyCapytain.resources.texts.base.tei.TEIResource attribute), 45
 next (MyCapytain.resources.texts.local.capitains.cts.__SimplePassage__ attribute), 59
 next (MyCapytain.resources.texts.local.capitains.cts.CapitainsCtsPassage attribute), 54
 next (MyCapytain.resources.texts.local.capitains.cts.CapitainsCtsText attribute), 49
 next (MyCapytain.resources.texts.remote.cts.CtsPassage attribute), 68
 next (MyCapytain.resources.texts.remote.cts.CtsText attribute), 64
 nextId (MyCapytain.common.reference.NodeId attribute), 24
 nextId (MyCapytain.resources.texts.base.tei.TEIResource attribute), 45

nextId (MyCapytain.resources.texts.local.capitains.cts.__SimplePassag attribute), 59

nextId (MyCapytain.resources.texts.local.capitains.cts.CapitainsCtsText attribute), 54

nextId (MyCapytain.resources.texts.local.capitains.cts.CapitainsCtsText attribute), 49

nextId (MyCapytain.resources.texts.remote.cts.CtsPassag attribute), 68

nextId (MyCapytain.resources.texts.remote.cts.CtsText attribute), 64

NodeId (class in MyCapytain.common.reference), 23

P

pagination() (MyCapytain.resolvers.cts.local.CtsCapitainsLocalResolver static method), 40

parent (MyCapytain.common.reference.Reference attribute), 27

parent (MyCapytain.resources.texts.base.tei.TEIResource attribute), 45

parent (MyCapytain.resources.texts.local.capitains.cts.__SimplePassag attribute), 59

parent (MyCapytain.resources.texts.local.capitains.cts.CapitainsCtsPassag attribute), 54

parent (MyCapytain.resources.texts.local.capitains.cts.CapitainsCtsText attribute), 49

parent (MyCapytain.resources.texts.remote.cts.CtsPassag attribute), 69

parent (MyCapytain.resources.texts.remote.cts.CtsText attribute), 64

parentId (MyCapytain.common.reference.NodeId attribute), 24

parentId (MyCapytain.resources.texts.base.tei.TEIResource attribute), 45

parentId (MyCapytain.resources.texts.local.capitains.cts.__SimplePassag attribute), 59

parentId (MyCapytain.resources.texts.local.capitains.cts.CapitainsCtsPassag attribute), 55

parentId (MyCapytain.resources.texts.local.capitains.cts.CapitainsCtsText attribute), 64

parentId (MyCapytain.resources.texts.local.capitains.cts.CapitainsCtsText attribute), 49

parentId (MyCapytain.resources.texts.remote.cts.CtsPassag attribute), 69

parentId (MyCapytain.resources.texts.remote.cts.CtsText attribute), 64

parse() (MyCapytain.resolvers.cts.local.CtsCapitainsLocalResolver method), 40

prev (MyCapytain.resources.texts.base.tei.TEIResource attribute), 45

prev (MyCapytain.resources.texts.local.capitains.cts.__SimplePassag attribute), 59

prev (MyCapytain.resources.texts.local.capitains.cts.CapitainsCtsPassag attribute), 55

prev (MyCapytain.resources.texts.local.capitains.cts.CapitainsCtsText attribute), 49

prevId (MyCapytain.resources.texts.base.tei.TEIResource attribute), 45

prevId (MyCapytain.resources.texts.local.capitains.cts.__SimplePassag attribute), 59

prevId (MyCapytain.resources.texts.local.capitains.cts.CapitainsCtsPassag attribute), 55

prevId (MyCapytain.resources.texts.local.capitains.cts.CapitainsCtsText attribute), 49

prevId (MyCapytain.resources.texts.remote.cts.CtsPassag attribute), 69

prevId (MyCapytain.resources.texts.remote.cts.CtsText attribute), 64

prevnext() (MyCapytain.resources.texts.remote.cts.CtsPassag method), 69

prevnext() (MyCapytain.resources.texts.remote.cts.CtsText method), 64

R

Reference (class in MyCapytain.common.reference), 26

reference (MyCapytain.common.reference.URN attribute), 25

reference (MyCapytain.resources.texts.local.capitains.cts.__SimplePassag attribute), 59

reference (MyCapytain.resources.texts.local.capitains.cts.CapitainsCtsPassag attribute), 55

reference (MyCapytain.resources.texts.remote.cts.CtsPassag attribute), 69

reference (MyCapytain.resources.texts.local.capitains.cts.CapitainsCtsText attribute), 50

reference (MyCapytain.resources.texts.remote.cts.CtsText attribute), 64

Resource (class in MyCapytain.resolvers.prototypes), 18

retriever (MyCapytain.resources.texts.remote.cts.CtsPassag attribute), 69

retriever (MyCapytain.resources.texts.remote.cts.CtsText attribute), 64

S

set_creator() (MyCapytain.resources.texts.base.tei.TEIResource method), 45

set_creator() (MyCapytain.resources.texts.local.capitains.cts.__SimplePassag attribute), 59

set_creator() (MyCapytain.resources.texts.local.capitains.cts.CapitainsCtsPassag method), 59

set_creator() (MyCapytain.resources.texts.local.capitains.cts.CapitainsCtsText method), 55

set_creator()	(MyCapytain.resources.texts.local.capitains.cts.CapitainsCtsText method), 50	set_subject()	(MyCapytain.resources.texts.remote.cts.CtsPassage method), 69
set_creator()	(MyCapytain.resources.texts.remote.cts.CtsPassage method), 69	set_subject()	(MyCapytain.resources.texts.remote.cts.CtsText method), 65
set_creator()	(MyCapytain.resources.texts.remote.cts.CtsText method), 64	set_title()	(MyCapytain.resources.texts.base.tei.TEIResource method), 46
set_description()	(MyCapytain.resources.texts.base.tei.TEIResource method), 46	set_title()	(MyCapytain.resources.texts.local.capitains.cts.__SimplePassage__ method), 60
set_description()	(MyCapytain.resources.texts.local.capitains.cts.__SimplePassage__ method), 59	set_title()	(MyCapytain.resources.texts.local.capitains.cts.CapitainsCtsPassage method), 55
set_description()	(MyCapytain.resources.texts.local.capitains.cts.CapitainsCtsPassage method), 55	set_title()	(MyCapytain.resources.texts.local.capitains.cts.CapitainsCtsText method), 50
set_description()	(MyCapytain.resources.texts.local.capitains.cts.CapitainsCtsText method), 50	set_title()	(MyCapytain.resources.texts.remote.cts.CtsPassage method), 69
set_description()	(MyCapytain.resources.texts.remote.cts.CtsPassage method), 69	siblingsId	(MyCapytain.common.reference.NodeId attribute), 24
set_description()	(MyCapytain.resources.texts.remote.cts.CtsText method), 65	siblingsId	(MyCapytain.resources.texts.remote.cts.CtsText attribute), 46
set_metadata_from_collection()	(MyCapytain.resources.texts.local.capitains.cts.__SimplePassage__ method), 59	siblingsId	(MyCapytain.resources.texts.local.capitains.cts.__SimplePassage__ attribute), 60
set_metadata_from_collection()	(MyCapytain.resources.texts.local.capitains.cts.CapitainsCtsPassage method), 55	siblingsId	(MyCapytain.resources.texts.local.capitains.cts.CapitainsCtsPassage attribute), 55
set_metadata_from_collection()	(MyCapytain.resources.texts.local.capitains.cts.CapitainsCtsText method), 50	siblingsId	(MyCapytain.resources.texts.local.capitains.cts.CapitainsCtsText attribute), 50
set_metadata_from_collection()	(MyCapytain.resources.texts.remote.cts.CtsPassage method), 69	siblingsId	(MyCapytain.resources.texts.remote.cts.CtsPassage attribute), 70
set_metadata_from_collection()	(MyCapytain.resources.texts.remote.cts.CtsText method), 65	siblingsId	(MyCapytain.resources.texts.remote.cts.CtsText attribute), 65
set_subject()	(MyCapytain.resources.texts.local.capitains.cts.CapitainsCtsPassage method), 55	start	(MyCapytain.common.reference.Reference attribute), 27
set_subject()	(MyCapytain.resources.texts.local.capitains.cts.CapitainsCtsText method), 50	subreference	(MyCapytain.common.reference.Reference attribute), 27
set_subject()	(MyCapytain.resources.texts.remote.cts.CtsPassage method), 69	T	
set_subject()	(MyCapytain.resources.texts.remote.cts.CtsText method), 65	TEIResource	(class in MyCapytain.resources.texts.base.tei), 43
set_subject()	(MyCapytain.resources.texts.base.tei.TEIResource method), 46	test()	(MyCapytain.resources.texts.local.capitains.cts.CapitainsCtsText method), 50
set_subject()	(MyCapytain.resources.texts.local.capitains.cts.__SimplePassage__ method), 60	text	(MyCapytain.resources.texts.base.tei.TEIResource attribute), 46
set_subject()	(MyCapytain.resources.texts.local.capitains.cts.CapitainsCtsPassage method), 55	text	(MyCapytain.resources.texts.local.capitains.cts.__SimplePassage__ attribute), 60
set_subject()	(MyCapytain.resources.texts.local.capitains.cts.CapitainsCtsText method), 55	text	(MyCapytain.resources.texts.local.capitains.cts.CapitainsCtsPassage attribute), 55
set_subject()	(MyCapytain.resources.texts.local.capitains.cts.CapitainsCtsText method), 50	text	(MyCapytain.resources.texts.local.capitains.cts.CapitainsCtsText attribute), 50
		text	(MyCapytain.resources.texts.remote.cts.CtsPassage attribute), 70
		text	(MyCapytain.resources.texts.remote.cts.CtsText attribute), 65

TEXT_CLASS (MyCapytain.resolvers.cts.local.CtsCapitainsLocalResolver attribute), 39
 xmlparse() (MyCapytain.resolvers.cts.local.CtsCapitainsLocalResolver method), 40
 xpath() (MyCapytain.resources.texts.local.capitains.cts.__SimplePassage__ attribute), 60
 textgroup (MyCapytain.common.reference.URN attribute), 25
 xpath() (MyCapytain.resources.texts.local.capitains.cts.CapitainsCtsPassage attribute), 56
 textObject (MyCapytain.resources.texts.local.capitains.cts.__SimplePassage__ attribute), 60
 xpath() (MyCapytain.resources.texts.local.capitains.cts.CapitainsCtsText attribute), 51
 textObject (MyCapytain.resources.texts.local.capitains.cts.CapitainsCtsText attribute), 50
 toString() (MyCapytain.resources.texts.local.capitains.cts.__SimplePassage__ method), 60
 toString() (MyCapytain.resources.texts.local.capitains.cts.CapitainsCtsPassage method), 55
 toString() (MyCapytain.resources.texts.local.capitains.cts.CapitainsCtsText method), 50

U

upTo() (MyCapytain.common.reference.URN method), 25
 URN (class in MyCapytain.common.reference), 24
 urn (MyCapytain.resources.texts.local.capitains.cts.__SimplePassage__ attribute), 60
 urn (MyCapytain.resources.texts.local.capitains.cts.CapitainsCtsPassage attribute), 56
 urn (MyCapytain.resources.texts.local.capitains.cts.CapitainsCtsText attribute), 51
 urn (MyCapytain.resources.texts.remote.cts.CtsPassage attribute), 70
 urn (MyCapytain.resources.texts.remote.cts.CtsText attribute), 65
 urn_namespace (MyCapytain.common.reference.URN attribute), 25

V

version (MyCapytain.common.reference.URN attribute), 26

W

work (MyCapytain.common.reference.URN attribute), 26

X

xml (MyCapytain.resources.texts.base.tei.TEIResource attribute), 46
 xml (MyCapytain.resources.texts.local.capitains.cts.__SimplePassage__ attribute), 60
 xml (MyCapytain.resources.texts.local.capitains.cts.CapitainsCtsPassage attribute), 56
 xml (MyCapytain.resources.texts.local.capitains.cts.CapitainsCtsText attribute), 51
 xml (MyCapytain.resources.texts.remote.cts.CtsPassage attribute), 70