
MyCapytains Documentation

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Thibault Clérice

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MyCapytain is a python package which provides a large set of tools to deal with CTS and Capitains Guidelines in Python.

Installation and Requirements

The best way to install MyCapytain is to use pip. MyCapytain tries to support both Python 2.7 and Python 3.4.

```
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
```


2.1 Project using MyCapytain

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

2.1.1 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](#)

2.2 The MyCapytain local file implementation

2.2.1 Introduction

The module `MyCapytain.resources.local.text` requires the [guidelines of Capitains](#) to be implemented in your files.

2.2.2 Basics and examples

Getting all passages from a text

```
# We import the correct classes from the local module
from MyCapytain.resources.texts.local import Text, Passage

# We open a file
with open("/tests/testing_data/texts/sample.xml") as f:
    # We initiate a Text object giving the IO instance to resource argument
    text = Text(resource=f)

# Text objects have a citation property
# len(Citation(...)) gives the depth of the citation scheme
# in the case of this sample, this would be 3 (Book, Poem, Line)
for ref in text.getValidReff(level=len(text.citation)):
    # We retrieve a Passage object for each reference that we find
    # We can pass the reference many way, including in the form of a list of strings
    psg = text.getPassage(ref.split("."), hypercontext=False)
    # We print the passage from which we retrieve <note> nodes
    print("\t".join([ref, psg.text(exclude=["note"])]))
```

2.3 Endpoints

2.3.1 Introduction

A first important point for MyCapytains endpoint is that the resources are not parsed into object but should only provide the request by default.

2.3.2 Getting Passage from an endpoint using a Retriever

```
from MyCapytain.retrievers import cts5
from MyCapytain.resources.texts.api import Text

# We set the variable up, as if we were in a function
# This URN won't work (urn:cts:greekLit:tlg0032.tlg005.perseus-grc1) because it has no TEI namespace
urn = 'urn:cts:latinLit:phi1294.phi002.perseus-lat2'
ref = "1.1-1.2"

# We set the api up. Endpoint takes one required argument
# (the URI) and one inventory as optional argument
cts = cts5.CTS('http://services2.perseids.org/exist/restxq/cts', inventory="nemo")

# We set up a text object to be able to retrieve passage of it
# Text in API modules takes endpoint as resource and URN as param

text = Text(urn=urn, resource=cts)

# We use the method getPassage which takes a reference argument
passage = text.getPassage(reference=ref)

# Passage then has different methods and properties
# Most of them (except next, prev and prevnext properties) are inherited from MyCapytain.resources.t
# For example
print(passage.text(exclude=["note", "head"])) # Will get the text without "note" and "head" TEI nodes
print(passage.xml) # The xml property can be used as an argument for XSLT for example
```

2.4 Known issues and recommendations

2.4.1 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]`

2.5 MyCapytain API Documentation

2.5.1 Utilities, metadata and references

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

URN, References and Citations

`class MyCapytain.common.reference.URN(urn)`
A URN object giving all useful sections

Parameters `urn` (*str*) – A CTS URN

Variables

- `urn_namespace` – Namespace of the URN
- `namespace` – CTS Namespace
- `textgroup` – CTS Textgroup
- `work` – CTS Work
- `version` – CTS Version
- `reference` – CTS Reference
- `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 th
>>> len(b) == 4
```

class MyCapytain.common.reference.**Reference** (*reference='u''*)

A reference object giving informations

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

Variables

- **parent** – Parent Reference
- **highest** – List representation of the range member which is the highest in the hierarchy (If equal, start is returned)
- **start** – First part of the range
- **end** – Second part of the range
- **list** – List representation of the range. Not available for range
- **subreference** – Word and Word counter (“Achiles”, 1) representing the subreference. Not available for range

Example

```
>>> a = Reference(reference="1.1@Achiles[1]-1.2@Zeus[1]")
>>> b = Reference(reference="1.1")
>>> Reference("1.1-2.2").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

class MyCapytain.common.reference.**Citation** (*name=None, xpath=None, scope=None, refs-Decl=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 = Citation(name="line")
>>> b = Citation(name="poem", child=c)
>>> a = Citation(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*) – Passage 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 = Citation(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 containters**class** MyCapytain.common.metadata.**Metadata** (*keys=None*)

Bases: future.types.newobject.newobject

A metadatum aggregation object provided to centralize metadata

Parameters `key` (*List*.<basestring>)- A metadata field name

Variables `metadata` - Dictionary of metadatum

`__getitem__` (*key*)

Add a quick access system through `getitem` on the instance

Parameters `key` (*basestring*, *int*, *tuple*)- Index key representing a set of metadatum

Returns An element of children whose index is key

Raises *KeyError* If key is not registered or recognized

Example

```
>>> a = Metadata()
>>> m1 = Metadatum(name="title", [("lat", "Amores"), ("fre", "Les Amours")])
>>> m2 = Metadatum(name="author", [("lat", "Ovidius"), ("fre", "Ovide")])
>>> a[("title", "author")] = (m1, m2)
```

```
>>> a["title"] == m1
>>> a[0] == m1
>>> a[("title", "author")] == (m1, m2)
```

`__setitem__` (*key*, *value*)

Set a new metadata field

Parameters

- **key** (*basestring*, *tuple*)- Name of metadatum field
- **value** (*Metadatum*)- Metadum dictionary

Returns An element of children whose index is key

Raises *TypeError* if key is not basestring or tuple of basestring

Raises *ValueError* if key and value are list and are not the same size

Example

```
>>> a = Metadata()
```

```
>>> a["title"] = Metadatum(name="title", [("lat", "Amores"), ("fre", "Les Amours")])
>>> print(a["title"]["lat"]) # Amores
```

```
>>> a[("title", "author")] = (
>>>     Metadatum(name="title", [("lat", "Amores"), ("fre", "Les Amours")]),
>>>     Metadatum(name="author", [("lat", "Ovidius"), ("fre", "Ovide")])
>>> )
>>> print(a["title"]["lat"], a["author"]["fre"]) # Amores, Ovide
```

`__iter__` ()

Iter method of Metadata

Example

```
>>> a = Metadata(("title", "desc", "author"))
>>> for key, value in a:
>>>     print(key, value) # Print ("title", "<Metadatum object>") then ("desc", "<Metadatum object>")
```

`__len__()`

Returns the number of Metadatum registered in the object

Return type `int`**Returns** Number of metadatum objects**Example**

```
>>> a = Metadata(("title", "description", "author"))
>>> print(len(a)) # 3
```

`__add__(other)`

Merge Metadata objects together

Parameters `other` (`Metadata`) – Metadata object to merge with the current one**Returns** The merge result of both metadata object**Return type** `Metadata`**Example**

```
>>> a = Metadata(name="label")
>>> b = Metadata(name="title")
>>> a + b == Metadata(name=["label", "title"])
```

class `MyCapytain.common.metadata.Metadatum` (`name`, `children=None`)Bases: `future.types.newobject.newobject`

Metadatum object represent a single field of metadata

Parameters

- **name** (`basestring`) – Name of the field
- **children** (`List`) – List of tuples, where first element is the key, and second the value

Example

```
>>> a = Metadatum(name="label", [("lat", "Amores"), ("fre", "Les Amours")])
>>> print(a["lat"]) # == "Amores"
```

`__getitem__(key)`

Add an iterable access method

Int typed key access to the n th registered key in the instance. If string based key does not exist, see for a default.**Parameters** `key` (`basestring`, `tuple`, `int`) – Key of wished value**Returns** An element of children whose index is key**Raises** `KeyError` if key is unknown (when using Int based key or when default is not set)**Example**

```
>>> a = Metadatum(name="label", [("lat", "Amores"), ("fre", "Les Amours")])
>>> print(a["lat"]) # Amores
>>> print(a[("lat", "fre")]) # Amores, Les Amours
>>> print(a[0]) # Amores
>>> print(a["dut"]) # Amores
```

`__getitem__` (*key, value*)

Register index key and value for the instance

Parameters

- **key** (*basestring, list, tuple*) – Index key(s) for the metadata
- **value** (*basestring, list, tuple*) – Values for the metadata

Returns An element of children whose index is key

Raises *TypeError* if key is not basestring or tuple of basestring

Raises *ValueError* if key and value are list and are not the same size

Example

```
>>> a = Metadatum(name="label")
```

```
>>> a["eng"] = "Illiad"
>>> print(a["eng"]) # Illiad
```

```
>>> a[("fre", "grc")] = ("Illiade", "λ")
>>> print(a["fre"], a["grc"]) # Illiade, λ
```

```
>>> a[("ger", "dut")] = "Iliade"
>>> print(a["ger"], a["dut"]) # Iliade, Iliade
```

`__iter__` ()

Iter method of Metadatum

Example

```
>>> a = Metadata(name="label", [("lat", "Amores"), ("fre", "Les Amours")])
>>> for key, value in a:
>>>     print(key, value) # Print ("lat", "Amores") and then ("fre", "Les Amours")
```

`setDefault` (*key*)

Set a default key when a field does not exist

Parameters **key** (*basestring*) – An existing key of the instance

Returns Default key

Raises *ValueError* If key is not registered

Example

```
>>> a = Metadatum(name="label", [("lat", "Amores"), ("fre", "Les Amours")])
>>> a.setdefault("fre")
>>> print(a["eng"]) # == "Les Amours"
```

Utilities

`MyCapytain.common.utils.NS = {'u'xml': 'u'http://www.w3.org/XML/1998/namespace', 'u'tei': 'u'http://www.tei-c.org/ns/1.0'}`

Dictionary of namespace that can be useful

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

Bases: `collections.OrderedDict`

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

Parameters

- **node** –
- **children** –
- **parent** –

Returns

`MyCapytain.common.utils.formatXPath` (*xpath*)

Parameters **xpath** –

Returns

`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` ()

`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** (*basestring*) – A string to change

Return type Basestring

Returns Clean string

`MyCapytain.common.utils.normalizeXPath` (*xpath*)

Normalize XPATH splitted 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*)

Parameters

- **parent** – Parent on which to perform xpath
- **new_tree** – Parent on which to add nodes
- **xpath** (*[str]*) – List of xpath elements

Returns

MyCapytain.common.utils.**performXPath** (*parent, xpath*)

Parameters

- **parent** –
- **xpath** –

Returns (Result, Loop Indicator)

MyCapytain.common.utils.**xmlparser** (*xml*)
Parse xml

Parameters **xml** (*basestring, lxml.etree._Element*) – XML element

Return type lxml.etree._Element

Returns An element object

Raises TypeError if element is not in accepted type

2.5.2 API Retrievers

Module endpoints contains prototypes and implementation of retrievers in MyCapytain

Ahab

CTS 5 API

class MyCapytain.retrievers.cts5.**CTS** (*endpoint, inventory=None*)
Bases: *MyCapytain.retrievers.proto.CTS*

Basic integration of the MyCapytain.retrievers.proto.CTS abstraction

call (*parameters*)

Call an endpoint given the parameters

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

Return type *text*

getCapabilities (*inventory=None*)

Retrieve the inventory information of an API

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

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`

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 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=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`

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.proto.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.proto.Ahab` (*endpoint*)

Bases: `MyCapytain.retrievers.proto.API`

Abstract Capitains Ahab API See : <http://capitains.github.io/pages/ahab.html>

permalink (*urn, format='xml'*)

Perform a permalink request on API

Return type `str`

search (*query, urn, start=1, limit=5, format='json'*)

Perform a search on given namespace

Parameters

- **query** (`text`) – Term to perform search on
- **urn** (`text`) – Partial or complete urn identifying the request
- **start** (`int`) – Starting element to display
- **limit** (`int`) – Limit of result displayed
- **format** (`str`) – Format to request (json or xml)

Return type `str`

class `MyCapytain.retrievers.proto.CTS` (*endpoint*)

Bases: `MyCapytain.retrievers.proto.API`

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***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***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*

2.5.3 Texts and inventories

Text

TEI based texts

class `MyCapytain.resources.texts.tei.Citation` (*name=None, xpath=None, scope=None, refs-Decl=None, child=None*)

Bases: `MyCapytain.common.reference.Citation`

Implementation of Citation for TEI markup

static ingest (*resource, xpath='//tei:cRefPattern'*)
Ingest a resource and store data in its instance

Parameters

- **resource** (`lxml.etree._Element`) – XML node `cRefPattern` or list of them in ASC hierarchy order (deepest to highest, eg. lines to poem to book)
- **xpath** (`str`) – XPath to use to retrieve citation

Returns A citation object

Return type `Citation`

class `MyCapytain.resources.texts.tei.Passage` (*parent=None, **kwargs*)

Bases: `MyCapytain.resources.proto.text.Passage`

text (*exclude=None*)

Text content of the passage

Parameters **exclude** (`List`) – Remove some nodes from text

Return type `basestring`

Returns Text of the xml node

Example

```
>>> P = Passage(resource='<l n="8">Ibis <note>hello<a>b</a></note> ab excusso miss
>>> P.text == "Ibis hello b ab excusso missus in astra sago. "
>>> P.text(exclude=["note"]) == "Ibis hello b ab excusso missus in astra sago. "
```

xml

XML Representation of the Passage

Return type `lxml.etree._Element`

Returns XML element representing the passage

Locally read text

class `MyCapytain.resources.texts.local.Text` (*urn=None, citation=None, resource=None, autoreffs=False*)

Bases: `MyCapytain.resources.proto.text.Text`

Implementation of CTS tools for local files

Parameters

- **urn** (`MyCapytain.common.reference.URN`) – A URN identifier

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

Variables **resource** – lxml

citation

Get the lowest cRefPattern in the hierarchy

Return type `Citation`

getPassage (`reference, hypercontext=True`)

Finds a passage in the current text

Parameters

- **reference** (`list, Reference`) – Identifier of the subreference / passages
- **hypercontext** (`bool`) – If set to true, retrieves nodes up to the given one, cleaning non required siblings.

Return type `Passage, ContextPassage`

Returns Asked passage

Note: As of MyCapytain 0.1.0, `Text().getPassage()` returns by default a `ContextPassage`, thus being able to handle range. This design change also means that the returned tree is way different that a classic

`Passage`. To retrieve MyCapytain<=0.0.9 behaviour, use `hypercontext=False`.

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

Retrieve valid passages directly

Parameters

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

Returns List of levels

Return type `list(basestring, str)`

:

Note: `GetValidReff` works for now as a loop using `Passage`, subinstances of `Text`, to retrieve the valid

informations. Maybe something is more powerfull ?

nested_dict (`exclude=None`)

Nested Dict Representation of the text passages

Parameters **exclude** (`List`) – Remove some nodes from text according to `MyCapytain.resources.texts.tei.Passage.text`

Return type `dict`

Returns Dictionary

parse ()

Parse the object and generate the children

text (*exclude=None*)

Returns the text of the XML resource without the excluded nodes

Parameters **exclude** (*list (str)*) – List of nodes

Returns Text of the text without the text inside removed nodes

Return type *str*

class `MyCapytain.resources.texts.local.Passage` (*urn=None, resource=None, parent=None, citation=None, reference=None*)

Bases: `MyCapytain.resources.texts.tei.Passage`

Passage class for local texts which is fast but contains the minimum DOM.

For design purposes, some people would prefer passage to be found quickly (Text indexing for example). Passage keeps only the node found through the xpath

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, this class will build an XML tree looking like the following

```
<l n='1'>Lorem ipsum</l>
```

Parameters

- **urn** (*URN*) – A URN identifier
- **resource** (*etree._Element*) – A resource
- **parent** (*Passage*) – Parent of the current passage
- **citation** (*Citation*) – Citation for children level
- **reference** (*Reference, List*) – Identifier of the subreference without URN information

Warning: This passage system does not accept range

children

Children of the passage

Returns Dictionary of children, where key are subreferences

Return type *OrderedDict*

first

First child of current Passage

Returns None if current Passage has no children, first child passage if available

Return type *None, Passage*

get (*key=None*)

Get a child or multiple children

Parameters **key** (*basestring or int*) – String identifying a passage

Raises **KeyError** – When key identifies a child unknown to this passage

Return type *List.Passage*

Returns List of passage identified by key. If key is None, returns all children

Note: Call time depends on parsing status. If the passage was never parsed, then on first call citation is used to find children

last

Last child of current Passage

Returns None if current Passage has no children, last child passage if available

Return type None, Passage

next

Next passage

Returns Next passage at same level

Return type *Passage*

prev

Previous passage

Returns Previous passage at same level

Return type *Passage*

reference

Id represents the passage subreference as a list of basestring

Returns Representation of the passage subreference as a list

Return type *Reference*

urn

URN Identifier of the object

Return type *URN*

class `MyCapytain.resources.texts.local.ContextPassage` (*urn=None, resource=None, parent=None, citation=None, reference=None*)

Bases: *MyCapytain.resources.texts.local.Passage*

Passage 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

- **urn** (*URN*) – URN of the source text or of the passage
- **resource** (*etree._Element*, *Text*) – Element representing the passage
- **parent** (*Text*) – Text containing the passage
- **citation** (*Citation*) – Citation scheme of the text
- **reference** (*Reference*) – Passage reference

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*

children

Children of the passage

Return type None, Reference

Returns Dictionary of children, where key are subreferences

first

First child of current Passage

Returns None if current Passage has no children, first child passage if available

Return type None, Reference

last

Last child of current Pass

Returns None if current Passage has no children, last child passage if available

Return type None, Reference

next

Next passage

Returns Next passage at same level

Return type None, Reference

prev

Get the Previous passage reference

Returns Previous passage reference at the same level

Return type None, Reference

text (*exclude=None*)

Text content of the passage

Parameters **exclude** (*List*) – Remove some nodes from text

Return type `basestring`

Returns Text of the xml node

Example

```
>>> P = Passage(resource='<ln="8">Ibis <note>hello<a>b</a></note> ab excusso miss
>>> P.text == "Ibis hello b ab excusso missus in astra sago. "
>>> P.text(exclude=["note"]) == "Ibis hello b ab excusso missus in astra sago. "
```

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

Transform the Passage in XML string

Parameters

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

Returns

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)`

API's Text results

class `MyCapytain.resources.texts.api.Text` (*urn*, *resource*, *citation=None*, ***kwargs*)

Bases: `MyCapytain.resources.proto.text.Text`

Passage representing object prototype

Parameters

- **urn** (`MyCapytain.common.reference.URN`) – A URN identifier
- **resource** (`MyCapytain.retrievers.proto.CTS`) – An API endpoint
- **citation** (`MyCapytain.resources.texts.tei.Citation`) – Citation for children level
- **id** (`List`) – Identifier of the subreference without URN informations

DEFAULT_LANG = `u'eng'`

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

getPassage (reference=None)

Retrieve a passage and store it in the object

Parameters **reference** (*MyCapytain.common.reference.Reference*, or *MyCapytain.common.reference.URN*, or *str* or *list(str)*) – Reference of the passage

Return type *Passage*

Returns Object representing the passage

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

getPassagePlus (reference=None)

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

Parameters **reference** (*MyCapytain.common.reference.Reference* or *List of basestring*) – Reference of the passage

Return type *Passage*

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** (*Reference*) – Reference from which to find siblings

Returns (Previous Passage Reference, Next Passage Reference)

getValidReff (level=1, reference=None)

Given a resource, Text will compute valid reffs

Parameters

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

Return type *list(str)*

Returns List of levels

reffs

Get all valid reffs for every part of the Text

Return type *MyCapytain.resources.texts.tei.Citation*

class *MyCapytain.resources.texts.api.Passage* (*urn, resource, *args, **kwargs*)

Bases: *MyCapytain.resources.texts.tei.Passage*

first

Children passage

Return type *Passage*

Returns Previous passage at same level

static 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 (URN, URN)

getFirst ()
 Shortcut for getting the first child passage

Return type *Passage*

Returns Previous passage at same level

getNext ()
 Shortcut for getting the following passage

Return type *Passage*

Returns Following passage at same level

getPrev ()
 Shortcut for getting the preceding passage

Return type *Passage*

Returns Previous passage at same level

next
 Shortcut for getting the following passage

Return type *MyCapytain.common.reference.Reference*

Returns Following passage reference

prev
 Previous passage

Return type *Passage*

Returns Previous passage at same level

static 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 (URN, URN)

Inventories

class `MyCapytain.resources.inventory.Citation` (*name=None, xpath=None, scope=None, refs-Decl=None, child=None*)

Bases: *MyCapytain.common.reference.Citation*

Citation XML implementation for TextInventory

escape = `<_sre.SRE_Pattern object>`

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

Parameters

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

Returns Citation

`MyCapytain.resources.inventory.Edition` (*resource=None, urn=None, parents=None*)
Create an edition subtyped Text object

class `MyCapytain.resources.inventory.Text` (**kwargs)
Bases: `MyCapytain.resources.proto.inventory.Text`

Represents a CTS Text

..automethod:: `__str__`

export (*output=u'xml', **kwargs*)
Create a {format} version of the Work

Parameters **output** (*basestring, citation*) – Format to be chosen (Only XML for now)

Return type `lxml.etree._Element`

Returns XML representation of the object

parse (*resource*)
Parse a resource to feed the object

Parameters **resource** (*basestring or lxml.etree._Element*) – An xml representation object

Returns None

class `MyCapytain.resources.inventory.TextGroup` (**kwargs)
Bases: `MyCapytain.resources.proto.inventory.TextGroup`

Represents a CTS Textgroup in XML

export (*output=u'xml'*)
Create a {format} version of the TextInventory

Parameters **output** (*basestring*) – Format to be chosen (Only XML for now)

Return type `lxml.etree._Element`

Returns XML representation of the object

parse (*resource*)
Parse a resource

Parameters

- **resource** – Element representing the textgroup
- **type** – basestring, `etree._Element`

class `MyCapytain.resources.inventory.TextInventory` (**kwargs)
Bases: `MyCapytain.resources.proto.inventory.TextInventory`

Represents a CTS Inventory file

export (*output=u'xml'*)
Create a {output} version of the TextInventory

Parameters **output** (*basestring*) – output to be chosen (Only XML for now)

Return type lxml.etree._Element

Returns XML representation of the object

parse (*resource*)

Parse a resource

Parameters

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

`MyCapytain.resources.inventory.Translation` (*resource=None, urn=None, parents=None*)
Create a translation subtyped Text object

class `MyCapytain.resources.inventory.Work` (**kwargs)

Bases: `MyCapytain.resources.proto.inventory.Work`

Represents a CTS Textgroup in XML

..automethod:: __str__

export (*output=u'xml'*)

Create a {format} version of the Work

Parameters **output** (*basestring*) – Format to be chosen (Only XML for now)

Return type lxml.etree._Element

Returns XML representation of the object

parse (*resource*)

Parse a resource

Parameters

- **resource** – Element representing a work
- **type** – basestring, etree._Element

`MyCapytain.resources.inventory.xpathDict` (*xml, xpath, children, parents, **kwargs*)
Returns a default Dict given certain informations

Parameters

- **xml** (*etree*) – An xml tree
- **xpath** – XPath to find children
- **children** (*inventory.Resource*) – Object identifying children
- **parents** (*tuple.<inventory.Resource>*) – Tuple of parents

Return type collections.defaultdict.<basestring, inventory.Resource>

Returns Dictionary of children

Prototypes

class `MyCapytain.resources.proto.text.Passage` (*parent=None, **kwargs*)

Bases: `MyCapytain.resources.proto.text.Resource`

Passage representing object prototype

Parameters

- **urn** (`MyCapytain.common.reference.URN`) – A URN identifier
- **resource** (`lxml.etree._Element`) – A resource
- **parent** (`MyCapytain.resources.texts.tei.Passage`) – Parent of the current passage
- **citation** (`MyCapytain.resources.texts.tei.Citation`) – Citation for children level
- **id** (`List`) – Identifier of the subreference without URN informations

children

Children of the passage

Return type `OrderedDict`

Returns Dictionary of children, where key are subreferences

first

First child of current Passage

Return type `None` or `Passage`

Returns `None` if current Passage has no children, first child passage if available

last

Last child of current Passage

Return type `None` or `Passage`

Returns `None` if current Passage has no children, last child passage if available

next

Following passage

Return type `Passage`

Returns Following passage at same level

prev

Previous passage

Return type `Passage`

Returns Previous passage at same level

class `MyCapytain.resources.proto.text.PassagePlus` (*passage, prev, next*)

Bases: `tuple`

next

Alias for field number 2

passage

Alias for field number 0

prev

Alias for field number 1

class `MyCapytain.resources.proto.text.Resource` (*urn=None, resource=None*)

Bases: `object`

Initiate a Resource object

Parameters

- **urn** (`MyCapytain.common.reference.URN`) – A URN identifier
- **resource** (`Any`) – A resource

urn

URN Identifier of the object

Return type `MyCapytain.common.reference.URN`

class `MyCapytain.resources.proto.text.Text` (`citation=None, metadata=None, **kwargs`)
Bases: `MyCapytain.resources.proto.text.Resource`

A CTS Text

citation

Get the lowest cRefPattern in the hierarchy

Return type `MyCapytain.common.reference.Citation`

getLabel ()

Retrieve metadata about the text

Return type `dict`

Returns Dictionary with label informations

getPassage (`reference`)

Retrieve a passage and store it in the object

Parameters **reference** (`MyCapytain.common.reference.Reference` or `List of basestring`) – Reference of the passage

Return type `Passage`

Returns Object representing the passage

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

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

Given a resource, Text 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.basestring`

Returns List of levels

reffs

Get all valid reffs for every part of the Text

Return type `MyCapytain.resources.texts.tei.Citation`

`MyCapytain.resources.proto.inventory.Edition` (`resource=None, urn=None, parents=None`)

class `MyCapytain.resources.proto.inventory.Resource` (`resource=None`)

Bases: `object`

Resource represents any resource from the inventory

export (`format=None`)

parse (`resource`)

Parse the object resource

Parameters **resource** (*Any*) – Resource representing the TextInventory

Return type List

setResource (*resource*)

Set the object property resource

Parameters **resource** (*Any*) – Resource representing the TextInventory

Return type Any

Returns Input resource

class `MyCapytain.resources.proto.inventory.Text` (*resource=None, urn=None, parents=None, subtype='Edition'*)

Bases: `MyCapytain.resources.proto.inventory.Resource`

Represents a CTS Text

editions ()

Get all editions of the texts

Returns List of editions

Return type [Text]

translations (*key=None*)

Get translations in given language

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

Returns

class `MyCapytain.resources.proto.inventory.TextGroup` (*resource=None, urn=None, parents=None*)

Bases: `MyCapytain.resources.proto.inventory.Resource`

Represents a CTS Textgroup

class `MyCapytain.resources.proto.inventory.TextInventory` (*resource=None, id=None*)

Bases: `MyCapytain.resources.proto.inventory.Resource`

Represents a CTS Inventory file

`MyCapytain.resources.proto.inventory.Translation` (*resource=None, urn=None, parents=None*)

class `MyCapytain.resources.proto.inventory.Work` (*resource=None, urn=None, parents=None*)

Bases: `MyCapytain.resources.proto.inventory.Resource`

Represents a CTS Work

getLang (*key=None*)

Find a translation with given language

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

Return type [Text]

Returns List of available translations

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