
kyoto-reader Documentation

Kurohashi-Kawahara Lab

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CHAPTER 1

About

Table 1: $\mathcal{A}^{\text{FC}} \vdash \mathcal{C} \vdash \mathcal{T} \vdash \mathcal{B} \vdash \mathcal{C}$: $\mathcal{A} \vdash \mathcal{C}_1 \vdash \mathcal{C}_2 \vdash \mathcal{C}_3 \vdash \mathcal{C}_4$

Name	Domain	Size
äžněčjåd'gåæäČeäČgäČÜæÜGæŽyäČläČijäČL'äČšäČijäČSäČgäČÜäČæäČzäČL	äžněčjåd'gåæäČeäČgäČÜæÜGæŽyäČläČijäČL'äČšäČijäČSäČgäČÜäČæäČzäČL	16,038 æÜG
äžněčjåd'gåæäČEäČæäČzäČLäČšäČijäČSäČz (KyotoCorpus)	æÜřeAđel'ÝäžNäČzçd'žełň	15,872 æÜG
äýæžAèłfæ§zäČGäČijäČfæČzäČČäČLäČfæČräžYäAæČgäČSäČfæČUäAžäČNæŁTçíf (AnnotatedFKCCorpus)	äýæžAèłfæ§zäČGäČijäČfæČzäČČäČLäČfæČräžYäAæČgäČSäČfæČUäAžäČNæŁTçíf	1,282 æÜG

CHAPTER 2

Requirements

- **Python**
 - Verified Versions: 3.7, 3.8, 3.9, 3.10
- pyknp 0.4.6+
- KNP (optional)
- JumanDIC (optional)

CHAPTER 3

Install kyoto-reader

[REDACTED]

or

[REDACTED]

CHAPTER 4

A Brief Explanation of KWDLG and other corpora

KWDLG, KyotoCorpus, AnnotatedFKCCorpus

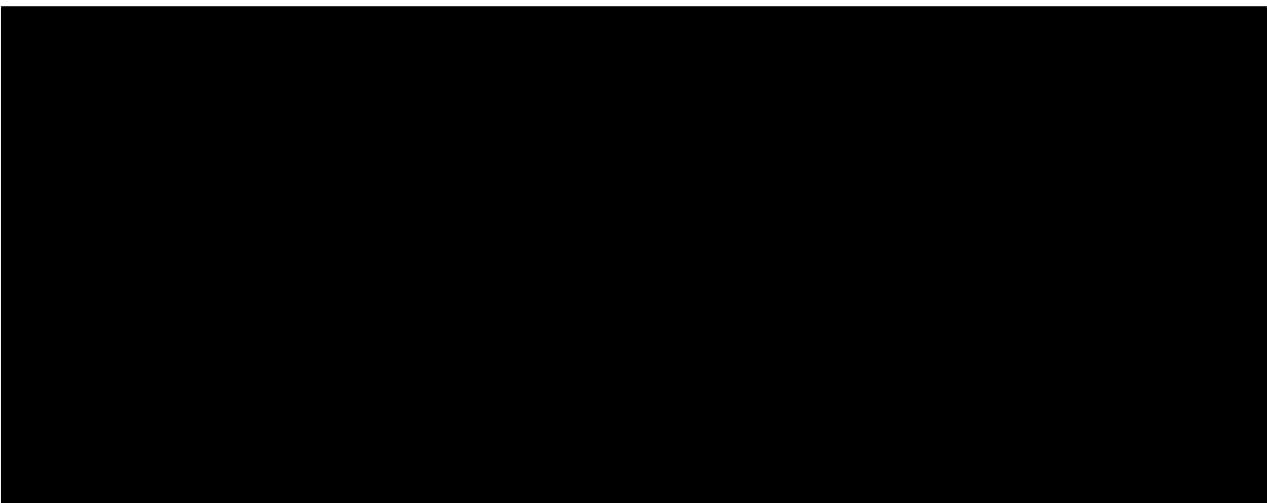
ãAřfáAžáCňáCĆæÜěæIJňelđáAđæÜGæŽyäAňář;ãAđüäAęä;ćaeĚNct'ãačDægNæÜGæČEňašaAđöžÜaňAęfřelđeňEęgNéAňačDđa
KWDLG ãAřaČęaČgäČUňAňaČLæL;ãGžäAđüäA§ 3 æÜGäČS 1 æÜGæŽyäAňačUđc'Đ 5,000
æÜGæŽyäAňář;ãAđüäAęäČcäČOäČEaČijäČuňaČgäČsäAđaČNňAęäAđaČNňAč

KyotoCorpus

ãAřaeřOæÜěæÜřeAđaAđeřYňačŠař;eňaaAňaňAňa;ćaeĚNct'ãačZaeřNæÜGæČEňašaAňaAđ'ãAđaAęäAř 40,000
æÜGäAňaňAęfřelđeňEęgNéAňačZaEšaRČcEęeřCäAňaAđ'ãAđaAęäAřaňAđaAęäAqäAđc'Đ 10,000
æÜGäAňaňCćaČOäČEaČijäČuňaČgäČsäAđaČNňAęäAđaČNňAč

AnnotatedFKCCorpus ãAřäyAěLňaAđäžžaňAňaČL'ěŽEaČAaČL'äČNňAęäy■ežAňAčEaČ■aČzäČLc'Đ 1,300
æÜGäAňář;ãAđüäAęäČcäČOäČEaČijäČuňaČgäČsäČšeňaAčaAšaČsäČijäČRäČžaČzäAęäČzäAčaČNňAč
ãAňaAđaAěfřelđeňEęgNéAňačZaEšaRČcEęeřCäAđaČcäČOäČEaČijäČuňaČgäČsäAř <rel>
aČeřaČřaAňaČLäAęäAęäAđaČNňAęäAđaČNňAč

KWDLG ãAđä;ň:



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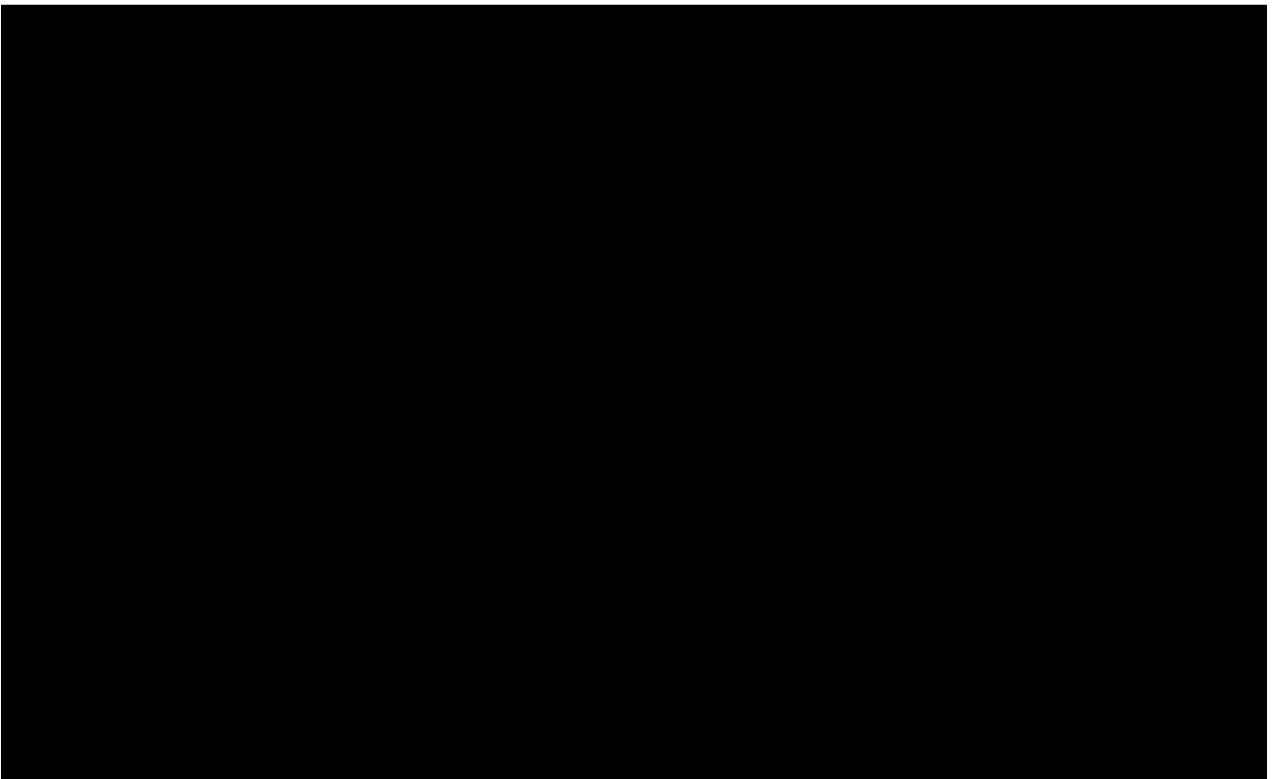


CHAPTER 5

Usage

äyŁeÝäAöäçNäAöäČGäČijäČfääAÑåEëäAčäA§äČTäČqäČd'äCń
äCŠel■äAfë;ijäČÄåå'äRL

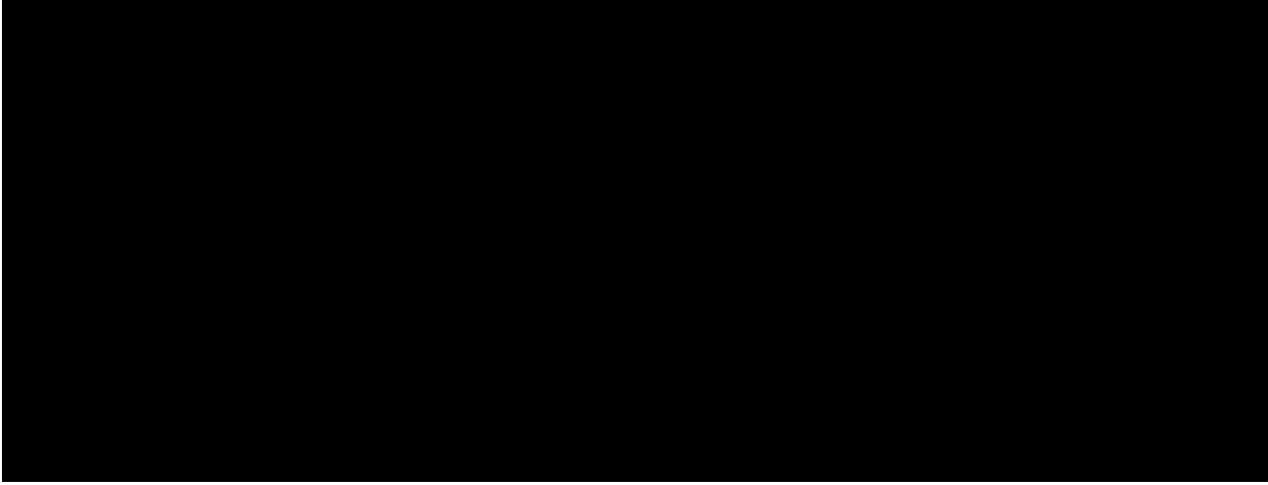
w201106-0000060050.knp



āČÜāČ■āČřāČl'āČāāAőāGžāŁŻçłŘæđIJ

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CHAPTER 6

CLI Interfaces

kyoto աČšãČđaČšãČL'աČšãլքTíiaAžãCñãAşãAíãAğãĂAăČšãČijãČSãCzãAőăEĚăőzãČSëałçd'žãAÜăAşãČLãČšãČijãČSãCzãCšãL

6.1 Browsing files

- kyoto show: KNP աČTãČqãCd'ăČńãAőăEĚăőzãČSãČDãČlãČijãćaijRãAğeąłçd'ž
(աČGãČcãČnãCřaČLãČlãČSæNГőZãAÜăAşãăt'ăRЛãĂAňnãAçãCñãCñãEłãAęăAőăČTãČqãCd'ăČńãCšëałçd'ž)

- kyoto list: æNГőZãAТãČNãAşãČGãČcãČnãCřaČLãČlãAňnãAçãCñãCñãUĞæŻy ID աČSãLÜæNŽ

6.2 Processing Corpus

աČšãČijãČSãCzãČSëgčadRãAÜăAęf;ăLăăAőçt'ăeĂgãČSäzYäyÖ (KNP աAí JumanDIC աAňňfEèęA)

- kyoto configure: աČšãČijãČSãAőăČGãČcãČnãCřaČLãČlãAňńt'ăeĂgäzYäyÖăAőăAşãČAăAő
Makefile աČSçTşæŁR
 - make աČSâőşeąňnãAžãCñãAşãAíãAğãĂAăČšãČijãČSãCzãAň 1 աUĞæŻy 1
aČTãČqãCd'ăČńãAňňLĘaL'şAТãČNãĂA knp / aČGãČcãČnãCřaČLãČlãAňńt'ăeĂgãAőäzYäyÖăAТãČNãAşãČTãČqãCd'

- kyoto idsplit: աČšãČijãČSãCzãČS train/dev/test aČTãČqãCd'ăČńãAňňLĘaL'ş

6.3 Zsh Completions

<virtualenv-path>/share/zsh/site-functions ãČš FPATH ãAñè£;âŁäãAŽaČNãAŞãAÍãA  kyoto
ãČşãČđãČşãČL'ãA èčIJâõÑãAÑãR eC; (zsh eŽRâõŽ)

CHAPTER 7

Documents

7.1 kyoto_reader package

7.1.1 Submodules

kyoto_reader.base_phrase module

```
class kyoto_reader.base_phrase.BasePhrase(tag: pyknp.knp.tag.Tag, dmid_offset: int, dtid: int, sid: str, doc_id: str, parent: Optional[BasePhrase] = None, children: Optional[List[BasePhrase]] = None)
```

Bases: object

æÜGäy■äAñåGžçR; äAŽäCÑåšžæIJňåRëäCŠèałäAŽäCřaČl' äCž

tag

Tag object in pyknp.

Type Tag

sid

Sentence ID.

Type str

dtid

Document-wide tag ID.

Type int

content dmid

content_morpheme_id Document-wide morpheme ID of the content word in the base phrase.

Type int

parent

Dependency parent.

Type `Optional[BasePhrase]`

children

Dependency children.

Type `List[BasePhrase]`

__init__ (`tag: pyknp.knp.tag.Tag, dmid_offset: int, dtid: int, sid: str, doc_id: str, parent: Optional[BasePhrase] = None, children: Optional[List[BasePhrase]] = None`)

Parameters

- **tag** (`Tag`) – Tag object in pyknp.
- **dmid_offset** (`int`) – Document-wide morpheme ID of the previous morpheme.
- **dtid** (`int`) – Document-wide tag ID.
- **sid** (`str`) – Sentence ID.
- **doc_id** (`str`) – Document ID.
- **parent** (`Optional[BasePhrase]`) – Dependency parent.
- **children** (`List[BasePhrase]`) – Dependency children.

core

A core expression without ancillary words.

dmid

Document-wide morpheme ID.

dmids

A list of document-wide morpheme IDs.

mrph2dmid

A mapping from morpheme to its document-wide ID.

mrph_list() → `List[pyknp.juman.morpheme.Morpheme]`

A list of morphemes

mrphs

A list of morphemes.

surf

A surface expression.

tid

Tag ID in pyknp.

kyoto_reader.cli module

`kyoto_reader.cli.configure(args: argparse.Namespace)`

Create Makefile to preprocess corpus documents.

`kyoto_reader.cli.idssplit(args: argparse.Namespace)`

Copy files in a corpus to train, valid (dev), and test directory referring to ID files.

`kyoto_reader.cli.list_(args: argparse.Namespace)`

List document IDs which specified path contains.

`kyoto_reader.cli.main()`

Entry point of CLI commands.

`kyoto_reader.cli.show(args: argparse.Namespace)`
Show the specified document in a tree format.

kyoto_reader.constants module

kyoto_reader.coreference module

class `kyoto_reader.coreference.Entity(eid: int, exophor: Optional[str] = None)`
Bases: `object`

A class to represent an entity in coreference. This class manages entity IDs of mentions that refer to this entity.

Parameters

- **eid** (`int`) – An Entity ID.
- **exophor** (`str, optional`) – The kind of exophor if this entity corresponds to some exophor. Otherwise, `None`.

eid

An Entity ID.

Type `int`

exophor

A string to represent exophor, such as ášIJèŠÜèÄŒâšI, ášIJèLèÄŒâšI, and ášIJäý■çL'žáôŽ:äžžâšI.

Type `str, optional`

mentions

A set of mentions that refer to this entity.

Type `Set[Mention]`

mentions_unc

Mentions that have uncertain relation with this entity.

Type `Set[Mention]`

taigen

Whether this entity is äššelš or not.

Type `bool, optional`

yougen

Whether this entity is çTlélš or not.

Type `bool, optional`

__init__(eid: int, exophor: Optional[str] = None)

Initialize self. See help(type(self)) for accurate signature.

add_mention(mention: kyoto_reader.coreference.Mention, uncertain: bool) → None

Add a mention that refers to this entity.

When a non-uncertain mention is added and the mention has already been registered as an uncertain mention, it will be overwritten as non-uncertain.

Parameters

- **mention** (`Mention`) – A mention
- **uncertain** (`bool`) – Whether the mention is uncertain (i.e., annotated with ášIJâLšâšI).

all mentions

All mentions that refer to this entity, including uncertain ones.

`is_special`

Whether this entity corresponds to special entity, such as exophor.

remove_mention (*mention*: *kyoto_reader.coreference.Mention*) → None

Remove a mention that is managed by this entity.

```
class kyoto_reader.coreference.Mention(bp: kyoto_reader.base_phrase.BasePhrase)
```

Bases: *kyoto_reader.base_phrase.BasePhrase*

A class to represent a mention in coreference.

Parameters **bp** (BasePhrase) – A base phrase object that corresponds to this mention.

eids

Entity IDs.

Type set

eids unc

Uncertain entity IDs. $\text{A} \rightarrow \text{IJ}$ means the mention is annotated with $\text{A} \rightarrow \text{IJ}$.

Type set

__init__ (bp: *kyoto_reader.base_phrase.BasePhrase*)

Args: tag (Tag): Tag object in pyknp. dmid_offset (int): Document-wide morpheme ID of the previous morpheme. dtid (int): Document-wide tag ID. sid (str): Sentence ID. doc_id (str): Document ID. parent (Optional[BasePhrase]): Dependency parent. children (List[BasePhrase]): Dependency children.

all eids

All entity IDs this mention refers to.

is_uncertain_to (*entity*: *kyoto_reader.coreference.Entity*) → bool

Whether this mention has uncertain relation with a specified entity.

kyoto_reader.document module

```
class kyoto_reader.document.Document (knp_string: str, doc_id: str, cases: Collection[str], corefs: Collection[str], relax_cases: bool, extract_nes: bool, use_pas_tag: bool)
```

Bases: object

A class to represent a document of KWDLG, KyotoCorpus, or AnnotatedFKCCorpus.

Parameters

- **knp_string** (*str*) – KNP format string of the document.
 - **doc_id** (*str*) – A document ID.
 - **cases** (*Collection[str]*) – Cases to extract.
 - **corefs** (*Collection[str]*) – Coreference relations to extract.
 - **relax_cases** (*bool*) – Whether to consider relations with $\text{A} \rightarrow \text{B}$ as those without $\text{A} \rightarrow \text{B}$ (e.g. $\text{C} \rightarrow \text{D}$ -> $\text{C} \rightarrow \text{D}$).
 - **extract_nes** (*bool*) – Whether to extract named entities.
 - **use_pas_tag** (*bool*) – Whether to read predicate-argument structures from `<rel>` tags, not `<rel>` tags.

knp_string

KNP format string of the document.

Type str

doc_id

A document ID.

Type str

cases

Cases to extract.

Type Collection[str]

corefs

Coreference relations to extract.

Type Collection[str]

extract_nes

Whether to extract named entities.

Type bool

sid2sentence

A mapping from a sentence ID to the corresponding sentence.

Type Dict[str, Sentence]

mentions

A mapping from a document-wide tag ID to the corresponding mention.

Type Dict[int, Mention]

entities

A mapping from a entity ID to the corresponding entity.

Type Dict[int, Entity]

named_entities

Extracted named entities.

Type List[NamedEntity]

__init__(knp_string: str, doc_id: str, cases: Collection[str], corefs: Collection[str], relax_cases:

bool, extract_nes: bool, use_pas_tag: bool) → None

Initialize self. See help(type(self)) for accurate signature.

bnst_list() → List[pyknp.knp.Bunsetsu]

Return list of Bunsetsu object in pyknp.

bp_list() → List[kyoto_reader.base_phrase.BasePhrase]

Return list of base phrases.

draw_tree(sid: Optional[str] = None, coreference: bool = True, fh: Optional[TextIO] = None) →

None

Write out the PAS and coreference relations in the specified sentence in a tree format.

If sid is not specified, write out trees in all the sentences in this document.

Parameters

- **sid(str, optional)** – A sentence ID of the target sentence.
- **coreference(bool)** – If True, write out coreference relations as well.

- **fh** (*TextIO, optional*) – The output stream.

get_arguments (*predicate: kyoto_reader.base_phrase.BasePhrase, relax: bool = False, include_optional: bool = False*) → Dict[str, List[*kyoto_reader.pas.BaseArgument*]]
Return all the arguments that the given predicate has.

Parameters

- **predicate** (*Predicate*) – A predicate.
- **relax** (*bool*) – If True, return arguments that have a coreference relation with the arguments the predicate has.
- **include_optional** (*bool*) – If True, return adverbial arguments such as あIIJāAŽāA¶āAñāAI as well.

Returns A mapping from a case to arguments.

Return type Dict[str, List[*BaseArgument*]]

get_entities (*bp: kyoto_reader.base_phrase.BasePhrase, include_uncertain: bool = False*) → List[*kyoto_reader.coreference.Entity*]
Return list of entities that the specified mention refers to. The mention is given as a type of BasePhrase.

Parameters

- **bp** (*BasePhrase*) – A base phrase corresponds to the mention.
- **include_uncertain** (*bool*) – Whether to return entities that has uncertain relation with the mention.

get_predicates () → List[*kyoto_reader.base_phrase.BasePhrase*]
Return list of predicates.

get_siblings (*mention: kyoto_reader.coreference.Mention, relax: bool = False*) → Set[*kyoto_reader.coreference.Mention*]
Return all the mentions that have coreference chains with the specified mention.

Parameters

- **mention** (*Mention*) – A mention.
- **relax** (*bool*) – If True, return coreferent mentions as well.

Returns A set of mentions.

Return type Set[*Mention*]

mrph2dmid

A mapping from morpheme to its document-wide ID.

mrph_list () → List[*pyknp.juman.morpheme.Morpheme*]
Return list of Morpheme object in pyknp.

pas_list () → List[*kyoto_reader.pas.Pas*]
Return list of predicate-argument structures.

sentences

List of sentences in this document.

Returns List[*Sentence*]

stat () → dict
Calculate various kinds of statistics of this document.

surf

A surface expression of this document.

tag_list() → List[pyknp.knp.tag.Tag]
Return list of Tag object in pyknp.

kyoto_reader.ne module

```
class kyoto_reader.ne.NamedEntity(category: str, name: str, sentence: kyoto_reader.sentence.Sentence, mid_range: range, mrph2dmid: Dict[pyknp.juman.morpheme.Morpheme, int])
```

Bases: object

A class to represent a named entity (NE).

Parameters

- **category** (str) – A category of a NE.
- **name** (str) – A name of a NE.
- **sentence** (Sentence) – A sentence that contains a NE.
- **mid_range** (range) – A range of IDs of morphemes that constitute a NE.
- **mrph2dmid** (dict) – A mapping from morpheme to its document-wide ID.

category

A category of a NE.

Type str

name

A name of a NE.

Type str

sid

A sentence ID of a sentence that contains a NE.

Type str

mid_range

A range of IDs of morphemes that constitute a NE.

Type range

dmid_range

A range of document-wide IDs of morphemes that constitute a NE.

Type range

```
__init__(category: str, name: str, sentence: kyoto_reader.sentence.Sentence, mid_range: range, mrph2dmid: Dict[pyknp.juman.morpheme.Morpheme, int])
```

Initialize self. See help(type(self)) for accurate signature.

kyoto_reader.pas module

```
class kyoto_reader.pas.Argument(bp: kyoto_reader.base_phrase.BasePhrase, dep_type: str, mode: str)
```

Bases: kyoto_reader.base_phrase.BasePhrase, kyoto_reader.pas.BaseArgument

æÜGäÿ■äAñåGžçR;äAŽäCN(åd'ÜçTÑäAägäAřäAłäAĐ)éäEäCŠeäläAŽäČÜäCýäCägäCřäČL

Parameters

- **mode** (*str*) – $\tilde{a} \tilde{C} \tilde{c} \tilde{a} \tilde{C} \tilde{j} \tilde{a} \tilde{C} L$

__init__ (*exophor*: *str*, *eid*: *int*, *mode*: *str*)
Initialize self. See help(type(self)) for accurate signature.

kyoto_reader.reader module

```
class kyoto_reader.reader.ArchiveHandler(path: pathlib.Path)
Bases: object

    __init__(path: pathlib.Path) → None
        Initialize self. See help(type(self)) for accurate signature.

classmethod is_supported_path(path: pathlib.Path) → bool

open() → Union[tarfile.TarFile, zipfile.ZipFile]

open_member(archive: Union[tarfile.TarFile, zipfile.ZipFile], member: str) → BinaryIO

class kyoto_reader.reader.ArchiveType
Bases: enum.Enum

    Enum for file collection types.

    TAR_GZ = '.tar.gz'

    ZIP = '.zip'

class kyoto_reader.reader.FileHandler(path: pathlib.Path)
Bases: object

    __init__(path: pathlib.Path) → None
        Initialize self. See help(type(self)) for accurate signature.

    content_basename

    open(*args, **kwargs) → TextIO

class kyoto_reader.reader.FileType
Bases: enum.Enum

    Enum for file types.

    GZ = '.gz'

    UNCOMPRESSED = ''


class kyoto_reader.reader.KyotoReader(source: Union[pathlib.Path, str], target_=_
tional[Collection[str]] = None, target_c_
tional[Collection[str]] = None, extract_n_
True, relax_cases: bool = False, use_pas_-
False, knp_ext: str = '.knp', pickle_ext: s_
n_jobs: int = -1, did_from_sid: bool = Tru_
```

A class to manage a set of corpus documents. Compressed file is supported. However, nested compression (e.g. .knp.gz in zip file) is not supported.

Parameters

- **source** (*Union[Path, str]*) – ářčěšqáAőœÚGæŽyāAýāAőāČSáCzāAČáČGäCčāČňaČřaČLáČlāAŇæN̄Gáő
 - **target_cases** (*Optional[Collection[str]]*) –
æL;áŽzāAőř;èšqáAřáAŽzāCÑæřijáAČ(default: áEřáAçäAőœřij)

- **target_corefs** (*Optional[Collection[str]]*) – æĽ, åGžāAçőárçèšqāAílāAžāCNařšáRČçĚğéÜçäfČ(=ãAjlāAł)ãAČ(default: åEílāAęäAőéÜçäfČ)
- **extract_nes** (*bool*) – åZžæIJL’èalíRčãCŠãCšãCijãCšãAžãAñãCL’æĽ, åGžãAžãCNařšãAł’ãAĘäAÑ (default: True)
- **relax_cases** (*bool*) – åCňâL’ŠæäijãAjlãAł’ãCŠãCňæäijãAílãAúãAęæL’sãAĘäAÑ (default: False)
- **knp_ext** (*str*) – KWDLC ãAč, ãAş, ãAř KC ãCTaČqãCđ, ãCňãAőæNqäijtãR (default: knp)
- **pickle_ext** (*str*) – Document åCŠ pickle åícäijRãAğel■ãCÅååt’ãRŁãAőæNqäijtãR (default: pkl)
- **use_pas_tag** (*bool*) – <rel>ãCfãCrãAñãCL’ãAğãAřãAłãAřãAA<èfřełděáEægNéA:,>ãCfãCrãAñãCL’ PAS ãCŠe■ãCÅãAñãAł’ãAĘäAÑ (default: False)
- **n_jobs** (*int*) – æÜGæŽyãCŠe■ãAře, ijačAåGęçRĘäAőäyęåLÜæTřãAČ0: äyęåLÜåGęçRĘäAłãAúãAA-1: ãCšãCćæTř (default: -1)
- **did_from_sid** (*bool*) – æÜGæŽyIDãCŠæÜGæŽyäy■ãAđS-IDãAñãCL’æšzåőZãAžãCŃ (default: True)

Note: ãCtäČiačijãCŁãATaČNãCñãEěãŁžãCšãCz (i.e. *source argument*) - å■YäyAčTäČqãCđ, ãCň (.knp, .knp.gz, .pkl, .pkl.gz) - å■YäyAčTäČqãCđ, ãCňãCšãAřnãCÅãCđ, ãCňãCřãAčLäčl - å■YäyAéíđåIJgçyõãCtäČqãCđ, ãCňãCšãAřnãCÅãCćãCijãCňãCđ, ãCřuačTäČqãCđ, ãCň (.tar.gz, .zip)

__init__ (*source: Union[pathlib.Path, str], target_cases: Optional[Collection[str]] = None, target_corefs: Optional[Collection[str]] = None, extract_nes: bool = True, relax_cases: bool = False, use_pas_tag: bool = False, knp_ext: str = '.knp', pickle_ext: str = '.pkl', n_jobs: int = -1, did_from_sid: bool = True*) → None
Initialize self. See help(type(self)) for accurate signature.

get_knp (*did: str*) → str

process_all_documents (*n_jobs: Optional[int] = None*) → List[Optional[kyoto_reader.document.Document]]
Process all documents that KyotoReader has loaded.

Parameters **n_jobs** (*int*) – The number of processes spawned to finish this task. (default: inherit from self)

process_document (*doc_id: str, archive: Union[tarfile.TarFile, zipfile.ZipFile, None] = None*) → Optional[kyoto_reader.document.Document]
Process one document following the given document ID.

Parameters

- **doc_id** (*str*) – An ID of a document to process.
- **archive** (*Optional[ArchiveFile]*) – An archive to read the document from.

process_documents (*doc_ids: Iterable[str], n_jobs: Optional[int] = None*) → List[Optional[kyoto_reader.document.Document]]
Process multiple documents following the given document IDs.

Parameters

- **doc_ids** (*List [str]*) – IDs of documents to process.

- **n_jobs** (*int*) – The number of processes spawned to finish this task. (default: inherit from self)

kyoto_reader.sentence module

class `kyoto_reader.sentence.Sentence(knp_string: str, dtid_offset: int, dmid_offset: int, doc_id: str)`

Bases: object

A class to represent a single sentence.

blist

BList object of pyknp.

Type BList

doc_id

The document ID of this sentence.

Type str

bps

Base phrases in this sentence.

Type List[*BasePhrase*]

__init__ (*knp_string*: str, *dtid_offset*: int, *dmid_offset*: int, *doc_id*: str) → None

Parameters

- **knp_string** (*str*) – KNP format string of this sentence.
- **dtid_offset** (*int*) – The document-wide tag ID of the previous base phrase.
- **dmid_offset** (*int*) – The document-wide morpheme ID of the previous morpheme.
- **doc_id** (*str*) – The document ID of this sentence.

bnst_list()

Return list of Bunsetsu object in pyknp.

dtids

A document-wide tag ID.

mrph2dmid

A mapping from morpheme to its document-wide ID.

mrph_list()

Return list of Morpheme object in pyknp.

sid

A sentence ID.

surf

A surface expression

tag_list()

Return list of Tag object in pyknp.

7.1.2 Module contents

CHAPTER 8

Author/Contact

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- Nobuhiro Ueda

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