
WikibaseIntegrator

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CONTENTS

1	wikibaseintegrator package	1
1.1	Subpackages	1
1.1.1	wikibaseintegrator.datatypes package	1
1.1.1.1	Subpackages	1
1.1.1.1.1	wikibaseintegrator.datatypes.extra package	1
1.1.1.2	Submodules	6
1.1.1.2.1	wikibaseintegrator.datatypes.basedatatype module	6
1.1.1.2.2	wikibaseintegrator.datatypes.commonsmmedia module	8
1.1.1.2.3	wikibaseintegrator.datatypes.entityschema module	10
1.1.1.2.4	wikibaseintegrator.datatypes.externalid module	13
1.1.1.2.5	wikibaseintegrator.datatypes.form module	15
1.1.1.2.6	wikibaseintegrator.datatypes.geoshape module	18
1.1.1.2.7	wikibaseintegrator.datatypes.globecoordinate module	20
1.1.1.2.8	wikibaseintegrator.datatypes.item module	23
1.1.1.2.9	wikibaseintegrator.datatypes.lexeme module	25
1.1.1.2.10	wikibaseintegrator.datatypes.math module	28
1.1.1.2.11	wikibaseintegrator.datatypes.monolingualtext module	30
1.1.1.2.12	wikibaseintegrator.datatypes.musicalnotation module	33
1.1.1.2.13	wikibaseintegrator.datatypes.property module	35
1.1.1.2.14	wikibaseintegrator.datatypes.quantity module	37
1.1.1.2.15	wikibaseintegrator.datatypes.sense module	40
1.1.1.2.16	wikibaseintegrator.datatypes.string module	42
1.1.1.2.17	wikibaseintegrator.datatypes.tabulardata module	45
1.1.1.2.18	wikibaseintegrator.datatypes.time module	47
1.1.1.2.19	wikibaseintegrator.datatypes.url module	50
1.1.1.3	Module contents	53
1.1.2	wikibaseintegrator.entities package	53
1.1.2.1	Submodules	53
1.1.2.1.1	wikibaseintegrator.entities.baseentity module	53
1.1.2.1.2	wikibaseintegrator.entities.item module	55
1.1.2.1.3	wikibaseintegrator.entities.lexeme module	59
1.1.2.1.4	wikibaseintegrator.entities.mediainfo module	62
1.1.2.1.5	wikibaseintegrator.entities.property module	65
1.1.2.2	Module contents	68
1.1.3	wikibaseintegrator.models package	68
1.1.3.1	Submodules	68
1.1.3.1.1	wikibaseintegrator.models.alias module	68
1.1.3.1.2	wikibaseintegrator.models.basemodel module	70
1.1.3.1.3	wikibaseintegrator.models.claims module	70
1.1.3.1.4	wikibaseintegrator.models.descriptions module	74

1.1.3.1.5	wikibaseintegrator.models.forms module	75
1.1.3.1.6	wikibaseintegrator.models.labels module	78
1.1.3.1.7	wikibaseintegrator.models.language_values module	79
1.1.3.1.8	wikibaseintegrator.models.lemmas module	81
1.1.3.1.9	wikibaseintegrator.models.qualifiers module	82
1.1.3.1.10	wikibaseintegrator.models.references module	83
1.1.3.1.11	wikibaseintegrator.models.senses module	85
1.1.3.1.12	wikibaseintegrator.models.sitelinks module	88
1.1.3.1.13	wikibaseintegrator.models.snaks module	89
1.1.3.2	Module contents	90
1.2	Submodules	90
1.2.1	wikibaseintegrator.wbi_backoff module	90
1.2.2	wikibaseintegrator.wbi_config module	90
1.2.3	wikibaseintegrator.wbi_enums module	91
1.2.4	wikibaseintegrator.wbi_exceptions module	93
1.2.5	wikibaseintegrator.wbi_fastrun module	97
1.2.6	wikibaseintegrator.wbi_helpers module	100
1.2.7	wikibaseintegrator.wbi_login module	109
1.2.8	wikibaseintegrator.wikibaseintegrator module	114
1.3	Module contents	115
1.3.1	WikibaseIntegrator Library	115
2	Changelog	117
2.1	Changelog	117
3	Indices and tables	119
	Python Module Index	121
	Index	123

WIKIBASEINTEGRATOR PACKAGE

1.1 Subpackages

1.1.1 wikibaseintegrator.datatypes package

1.1.1.1 Subpackages

1.1.1.1.1 wikibaseintegrator.datatypes.extra package

Submodules

wikibaseintegrator.datatypes.extra.edtf module

class `wikibaseintegrator.datatypes.extra.edtf.EDTF`(*value=None*, ***kwargs*)

Bases: *String*

Implements the Wikibase data type for Wikibase Extended Date/Time Format extension. More info at https://www.mediawiki.org/wiki/Extension:Wikibase_EDTF

Parameters

- **value** (*str* | *None*)
- **kwargs** (*Any*)

DTYPE = 'edtf'

__init__(*value=None*, ***kwargs*)

Constructor, calls the superclass `BaseDataType`

Parameters

- **value** (*str* | *None*) – The string to be used as the value
- **kwargs** (*Any*)

equals(*that*, *include_ref=False*, *fref=None*)

Tests for equality of two statements. If comparing references, the order of the arguments matters!!! `self` is the current statement, the next argument is the new statement. Allows passing in a function to use to compare the references 'fref'. Default is equality. `fref` accepts two arguments 'oldrefs' and 'newrefs', each of which are a list of references, where each reference is a list of statements

Return type

`bool`

Parameters

- **that** (*Claim*)

- `include_ref` (*bool*)
- `fref` (*Callable | None*)

`from_json`(*json_data*)

Parameters

`json_data` (*dict[str, Any]*) – a JSON representation of a Claim

Return type

Claim

`get_json`()

Return type

dict[str, Any]

`get_sparql_value`()

Return type

str

`has_equal_qualifiers`(*other*)

Return type

bool

Parameters

`other` (*Claim*)

`property id`: *str | None*

`property mainsnak`: *Snak*

`parse_sparql_value`(*value, type='literal', unit='1'*)

Return type

bool

`property qualifiers`: *Qualifiers*

`property qualifiers_order`: *list[str]*

`static quals_equal`(*olditem, newitem*)

Tests for exactly identical qualifiers.

Return type

bool

Parameters

- `olditem` (*Claim*)
- `newitem` (*Claim*)

`property rank`: *WikibaseRank*

`static ref_present`(*olditem, newitem*)

Tests if (1) there is a single ref in the new item and (2) if this single ref is present among the claims of the old item.

Return type

bool

Parameters

- `olditem` (`Claim`)
- `newitem` (`Claim`)

property references: [References](#)

static `refs_equal`(*olditem*, *newitem*)

tests for exactly identical references

Return type

`bool`

Parameters

- `olditem` (`Claim`)
- `newitem` (`Claim`)

remove(*remove=True*)

Return type

`None`

property removed: `bool`

reset_id()

Reset the ID of the current claim

set_value(*value=None*)

Parameters

value (`str` | `None`)

property type: `str` | `dict`

update(*claim*)

Return type

`None`

Parameters

claim (`Claim`)

wikibaseintegrator.datatypes.extra.localmedia module

class `wikibaseintegrator.datatypes.extra.localmedia.LocalMedia`(*value=None*, ***kwargs*)

Bases: `String`

Implements the Wikibase data type for Wikibase Local Media extension. More info at https://www.mediawiki.org/wiki/Extension:Wikibase_Local_Media

Parameters

- **value** (`str` | `None`)
- **kwargs** (`Any`)

DTYPE = `'localMedia'`

`__init__(value=None, **kwargs)`

Constructor, calls the superclass `BaseDataType`

Parameters

- **value** (`str` | `None`) – The string to be used as the value
- **kwargs** (`Any`)

`equals(that, include_ref=False, fref=None)`

Tests for equality of two statements. If comparing references, the order of the arguments matters!!! `self` is the current statement, the next argument is the new statement. Allows passing in a function to use to compare the references ‘`fref`’. Default is equality. `fref` accepts two arguments ‘`oldrefs`’ and ‘`newrefs`’, each of which are a list of references, where each reference is a list of statements

Return type

`bool`

Parameters

- **that** (`Claim`)
- **include_ref** (`bool`)
- **fref** (`Callable` | `None`)

`from_json(json_data)`

Parameters

json_data (`dict[str, Any]`) – a JSON representation of a `Claim`

Return type

`Claim`

`get_json()`

Return type

`dict[str, Any]`

`get_sparql_value()`

Return type

`str`

`has_equal_qualifiers(other)`

Return type

`bool`

Parameters

other (`Claim`)

property id: `str` | `None`

property mainsnak: `Snak`

`parse_sparql_value(value, type='literal', unit='1')`

Return type

`bool`

property qualifiers: `Qualifiers`

property qualifiers_order: `list[str]`

static `quals_equal(olditem, newitem)`

Tests for exactly identical qualifiers.

Return type

`bool`

Parameters

- `olditem` (`Claim`)
- `newitem` (`Claim`)

property rank: `WikibaseRank`

static `ref_present(olditem, newitem)`

Tests if (1) there is a single ref in the new item and (2) if this single ref is present among the claims of the old item.

Return type

`bool`

Parameters

- `olditem` (`Claim`)
- `newitem` (`Claim`)

property references: `References`

static `refs_equal(olditem, newitem)`

tests for exactly identical references

Return type

`bool`

Parameters

- `olditem` (`Claim`)
- `newitem` (`Claim`)

remove(`remove=True`)

Return type

`None`

property removed: `bool`

reset_id()

Reset the ID of the current claim

set_value(`value=None`)

Parameters

`value` (`str` | `None`)

property type: `str` | `dict`

`update(claim)`

Return type

None

Parameters

claim (`Claim`)

Module contents

1.1.1.2 Submodules

1.1.1.2.1 wikibaseintegrator.datatypes.basedatatype module

`class wikibaseintegrator.datatypes.basedatatype.BaseDataType(prop_nr=None, **kwargs)`

Bases: `Claim`

The base class for all Wikibase data types, they inherit from it

Parameters

- **prop_nr** (`int | str | None`)
- **kwargs** (`Any`)

`DTYPE = 'base-data-type'`

`__init__(prop_nr=None, **kwargs)`

Constructor, will be called by all data types.

Parameters

- **prop_nr** (`int | str | None`) – The property number a Wikibase snak belongs to
- **kwargs** (`Any`)

`equals(that, include_ref=False, fref=None)`

Tests for equality of two statements. If comparing references, the order of the arguments matters!!! self is the current statement, the next argument is the new statement. Allows passing in a function to use to compare the references 'fref'. Default is equality. fref accepts two arguments 'oldrefs' and 'newrefs', each of which are a list of references, where each reference is a list of statements

Return type

bool

Parameters

- **that** (`Claim`)
- **include_ref** (`bool`)
- **fref** (`Callable | None`)

`from_json(json_data)`

Parameters

json_data (`dict[str, Any]`) – a JSON representation of a Claim

Return type

`Claim`

`get_json()`

Return type
dict[str, Any]

`get_sparql_value()`

Return type
str

`has_equal_qualifiers(other)`

Return type
bool

Parameters
other (Claim)

property id: str | None

property mainsnak: [Snak](#)

`parse_sparql_value(value, type='literal', unit='1')`

Return type
bool

property qualifiers: [Qualifiers](#)

property qualifiers_order: list[str]

static `quals_equal(olditem, newitem)`

Tests for exactly identical qualifiers.

Return type
bool

Parameters

- **olditem** (Claim)
- **newitem** (Claim)

property rank: [WikibaseRank](#)

static `ref_present(olditem, newitem)`

Tests if (1) there is a single ref in the new item and (2) if this single ref is present among the claims of the old item.

Return type
bool

Parameters

- **olditem** (Claim)
- **newitem** (Claim)

property references: [References](#)

static refs_equal(*olditem*, *newitem*)

tests for exactly identical references

Return type

bool

Parameters

- **olditem** (*Claim*)
- **newitem** (*Claim*)

remove(*remove=True*)

Return type

None

property removed: bool

reset_id()

Reset the ID of the current claim

set_value(*value=None*)

Parameters

value (*Any* | *None*)

property type: str | dict

update(*claim*)

Return type

None

Parameters

claim (*Claim*)

1.1.1.2 wikibaseintegrator.datatypes.commonsmmedia module

class wikibaseintegrator.datatypes.commonsmmedia.**CommonsMedia**(*value=None*, ***kwargs*)

Bases: *String*

Implements the Wikibase data type for Wikimedia commons media files

Parameters

- **value** (*str* | *None*)
- **kwargs** (*Any*)

DTYPE = 'commonsMedia'

__init__(*value=None*, ***kwargs*)

Constructor, calls the superclass BaseDataType

Parameters

- **value** (*str* | *None*) – The string to be used as the value
- **kwargs** (*Any*)

equals(*that*, *include_ref=False*, *fref=None*)

Tests for equality of two statements. If comparing references, the order of the arguments matters!!! self is the current statement, the next argument is the new statement. Allows passing in a function to use to compare the references 'fref'. Default is equality. fref accepts two arguments 'oldrefs' and 'newrefs', each of which are a list of references, where each reference is a list of statements

Return type

bool

Parameters

- **that** ([Claim](#))
- **include_ref** (*bool*)
- **fref** (*Callable | None*)

from_json(*json_data*)

Parameters

json_data (*dict[str, Any]*) – a JSON representation of a Claim

Return type

[Claim](#)

get_json()

Return type

dict[str, Any]

get_sparql_value()

Return type

str

has_equal_qualifiers(*other*)

Return type

bool

Parameters

other ([Claim](#))

property id: str | None

property mainsnak: [Snak](#)

parse_sparql_value(*value*, *type='literal'*, *unit='1'*)

Return type

bool

property qualifiers: [Qualifiers](#)

property qualifiers_order: list[str]

static quals_equal(*olditem*, *newitem*)

Tests for exactly identical qualifiers.

Return type

bool

Parameters

- `olditem` (`Claim`)
- `newitem` (`Claim`)

property rank: [WikibaseRank](#)

static `ref_present`(*olditem*, *newitem*)

Tests if (1) there is a single ref in the new item and (2) if this single ref is present among the claims of the old item.

Return type

`bool`

Parameters

- `olditem` (`Claim`)
- `newitem` (`Claim`)

property references: [References](#)

static `refs_equal`(*olditem*, *newitem*)

tests for exactly identical references

Return type

`bool`

Parameters

- `olditem` (`Claim`)
- `newitem` (`Claim`)

remove(*remove=True*)

Return type

`None`

property removed: `bool`

reset_id()

Reset the ID of the current claim

set_value(*value=None*)

Parameters

`value` (`str` | `None`)

property type: `str` | `dict`

update(*claim*)

Return type

`None`

Parameters

`claim` (`Claim`)

1.1.1.2.3 wikibaseintegrator.datatypes.entityschema module

class wikibaseintegrator.datatypes.entityschema.**EntitySchema**(*value=None, **kwargs*)

Bases: *BaseDataType*

Implements the Wikibase data type 'entity-schema'

Parameters

- **value** (*str | int | None*)
- **kwargs** (*Any*)

DTYPE = 'entity-schema'

__init__(*value=None, **kwargs*)

Constructor, calls the superclass *BaseDataType*

Parameters

- **value** (*str | int | None*) – The EntitySchema ID to serve as the value
- **kwargs** (*Any*)

equals(*that, include_ref=False, fref=None*)

Tests for equality of two statements. If comparing references, the order of the arguments matters!!! self is the current statement, the next argument is the new statement. Allows passing in a function to use to compare the references 'fref'. Default is equality. fref accepts two arguments 'oldrefs' and 'newrefs', each of which are a list of references, where each reference is a list of statements

Return type

bool

Parameters

- **that** (*Claim*)
- **include_ref** (*bool*)
- **fref** (*Callable | None*)

from_json(*json_data*)

Parameters

json_data (*dict[str, Any]*) – a JSON representation of a Claim

Return type

Claim

get_json()

Return type

dict[str, Any]

get_sparql_value()

Return type

str

has_equal_qualifiers(*other*)

Return type

bool

Parameters

other (*Claim*)

property id: str | None

property mainsnak: *Snak*

parse_sparql_value(*value*, *type='literal'*, *unit='1'*)

Return type

bool

property qualifiers: *Qualifiers*

property qualifiers_order: list[str]

static quals_equal(*olditem*, *newitem*)

Tests for exactly identical qualifiers.

Return type

bool

Parameters

- **olditem** (*Claim*)
- **newitem** (*Claim*)

property rank: *WikibaseRank*

static ref_present(*olditem*, *newitem*)

Tests if (1) there is a single ref in the new item and (2) if this single ref is present among the claims of the old item.

Return type

bool

Parameters

- **olditem** (*Claim*)
- **newitem** (*Claim*)

property references: *References*

static refs_equal(*olditem*, *newitem*)

tests for exactly identical references

Return type

bool

Parameters

- **olditem** (*Claim*)
- **newitem** (*Claim*)

remove(*remove=True*)

Return type

None

property removed: bool

reset_id()

Reset the ID of the current claim

set_value(*value=None*)

Parameters

value (*str | int | None*)

property type: **str | dict**

update(*claim*)

Return type

None

Parameters

claim (*Claim*)

1.1.1.2.4 wikibaseintegrator.datatypes.externalid module

class wikibaseintegrator.datatypes.externalid.**ExternalID**(*value=None, **kwargs*)

Bases: *String*

Implements the Wikibase data type ‘external-id’

Parameters

- **value** (*str | None*)
- **kwargs** (*Any*)

DTYPE = 'external-id'

__init__(*value=None, **kwargs*)

Constructor, calls the superclass BaseDataType

Parameters

- **value** (*str | None*) – The string to be used as the value
- **kwargs** (*Any*)

equals(*that, include_ref=False, fref=None*)

Tests for equality of two statements. If comparing references, the order of the arguments matters!!! self is the current statement, the next argument is the new statement. Allows passing in a function to use to compare the references ‘fref’. Default is equality. fref accepts two arguments ‘oldrefs’ and ‘newrefs’, each of which are a list of references, where each reference is a list of statements

Return type

bool

Parameters

- **that** (*Claim*)
- **include_ref** (*bool*)
- **fref** (*Callable | None*)

from_json(*json_data*)

Parameters

json_data (*dict[str, Any]*) – a JSON representation of a Claim

Return type

Claim

`get_json()`

Return type
dict[str, Any]

`get_sparql_value()`

Return type
str

`has_equal_qualifiers(other)`

Return type
bool

Parameters
other (Claim)

property id: str | None

property mainsnak: [Snak](#)

`parse_sparql_value(value, type='literal', unit='1')`

Return type
bool

property qualifiers: [Qualifiers](#)

property qualifiers_order: list[str]

static `quals_equal(olditem, newitem)`

Tests for exactly identical qualifiers.

Return type
bool

Parameters

- **olditem** (Claim)
- **newitem** (Claim)

property rank: [WikibaseRank](#)

static `ref_present(olditem, newitem)`

Tests if (1) there is a single ref in the new item and (2) if this single ref is present among the claims of the old item.

Return type
bool

Parameters

- **olditem** (Claim)
- **newitem** (Claim)

property references: [References](#)

static refs_equal(*olditem*, *newitem*)

tests for exactly identical references

Return type

bool

Parameters

- **olditem** (*Claim*)
- **newitem** (*Claim*)

remove(*remove=True*)

Return type

None

property removed: bool

reset_id()

Reset the ID of the current claim

set_value(*value=None*)

Parameters

value (*str* | *None*)

property type: str | dict

update(*claim*)

Return type

None

Parameters

claim (*Claim*)

1.1.1.2.5 wikibaseintegrator.datatypes.form module

class wikibaseintegrator.datatypes.form.**Form**(*value=None*, ***kwargs*)

Bases: *BaseDataType*

Implements the Wikibase data type ‘wikibase-form’

Parameters

- **value** (*str* | *None*)
- **kwargs** (*Any*)

DTYPE = 'wikibase-form'

__init__(*value=None*, ***kwargs*)

Constructor, calls the superclass *BaseDataType*

Parameters

- **value** (*str* | *None*) – The form number to serve as a value using the format “L<Lexeme ID>-F<Form ID>” (example: L252248-F2)
- **prop_nr** (*str with a 'P' prefix followed by digits*) – The property number for this claim
- **snaktype** (*str*) – The snak type, either ‘value’, ‘somevalue’ or ‘novalue’

- **references** (A data type with subclass of `BaseDataType`) – List with reference objects
- **qualifiers** (A data type with subclass of `BaseDataType`) – List with qualifier objects
- **rank** (*str*) – rank of a snak with value ‘preferred’, ‘normal’ or ‘deprecated’
- **kwargs** (*Any*)

equals(*that*, *include_ref=False*, *fref=None*)

Tests for equality of two statements. If comparing references, the order of the arguments matters!!! self is the current statement, the next argument is the new statement. Allows passing in a function to use to compare the references ‘fref’. Default is equality. fref accepts two arguments ‘oldrefs’ and ‘newrefs’, each of which are a list of references, where each reference is a list of statements

Return type

bool

Parameters

- **that** (`Claim`)
- **include_ref** (*bool*)
- **fref** (`Callable | None`)

from_json(*json_data*)

Parameters

json_data (`dict[str, Any]`) – a JSON representation of a Claim

Return type

`Claim`

get_json()

Return type

`dict[str, Any]`

get_lexeme_id()

Return the lexeme ID of the Form

Return type

str

get_sparql_value()

Return type

str

has_equal_qualifiers(*other*)

Return type

bool

Parameters

other (`Claim`)

property id: str | None

property mainsnak: `Snak`

parse_sparql_value(*value*, *type*='literal', *unit*='1')

Return type

bool

property qualifiers: [Qualifiers](#)

property qualifiers_order: list[str]

static quals_equal(*olditem*, *newitem*)

Tests for exactly identical qualifiers.

Return type

bool

Parameters

- **olditem** (Claim)
- **newitem** (Claim)

property rank: [WikibaseRank](#)

static ref_present(*olditem*, *newitem*)

Tests if (1) there is a single ref in the new item and (2) if this single ref is present among the claims of the old item.

Return type

bool

Parameters

- **olditem** (Claim)
- **newitem** (Claim)

property references: [References](#)

static refs_equal(*olditem*, *newitem*)

tests for exactly identical references

Return type

bool

Parameters

- **olditem** (Claim)
- **newitem** (Claim)

remove(*remove*=True)

Return type

None

property removed: bool

reset_id()

Reset the ID of the current claim

set_value(*value*=None)

Parameters

value (str | None)

property type: `str | dict`

`update(claim)`

Return type

None

Parameters

`claim` (`Claim`)

1.1.1.2.6 wikibaseintegrator.datatypes.geoshape module

`class wikibaseintegrator.datatypes.geoshape.GeoShape(value=None, **kwargs)`

Bases: `BaseDataType`

Implements the Wikibase data type ‘geo-shape’

Parameters

- `value` (`str | None`)
- `kwargs` (`Any`)

`DTYPE = 'geo-shape'`

`__init__(value=None, **kwargs)`

Constructor, calls the superclass `BaseDataType`

Parameters

- `value` (`str | None`) – The `GeoShape` map file name in Wikimedia Commons to be linked
- `kwargs` (`Any`)

Keyword Arguments

- `prop_nr` (`str`) – The item ID for this claim
- `snaktype` (`str`) – The snak type, either ‘value’, ‘somevalue’ or ‘novalue’
- `references` (`References` or list of `Claim`) – List with reference objects
- `qualifiers` (`Qualifiers`) – List with qualifier objects
- `rank` (`WikibaseRank`) – The snak type, either ‘value’, ‘somevalue’ or ‘novalue’

`equals(that, include_ref=False, fref=None)`

Tests for equality of two statements. If comparing references, the order of the arguments matters!!! `self` is the current statement, the next argument is the new statement. Allows passing in a function to use to compare the references ‘`fref`’. Default is equality. `fref` accepts two arguments ‘`oldrefs`’ and ‘`newrefs`’, each of which are a list of references, where each reference is a list of statements

Return type

`bool`

Parameters

- `that` (`Claim`)
- `include_ref` (`bool`)
- `fref` (`Callable | None`)

from_json(*json_data*)

Parameters

json_data (dict[str, Any]) – a JSON representation of a Claim

Return type

Claim

get_json()

Return type

dict[str, Any]

get_sparql_value()

Return type

str

has_equal_qualifiers(*other*)

Return type

bool

Parameters

other (*Claim*)

property id: str | None

property mainsnak: *Snak*

parse_sparql_value(*value*, *type='literal'*, *unit='1'*)

Return type

bool

property qualifiers: *Qualifiers*

property qualifiers_order: list[str]

static quals_equal(*olditem*, *newitem*)

Tests for exactly identical qualifiers.

Return type

bool

Parameters

- **olditem** (*Claim*)
- **newitem** (*Claim*)

property rank: *WikibaseRank*

static ref_present(*olditem*, *newitem*)

Tests if (1) there is a single ref in the new item and (2) if this single ref is present among the claims of the old item.

Return type

bool

Parameters

- **olditem** (*Claim*)

- `newitem` (`Claim`)

property references: [References](#)

`static refs_equal(olditem, newitem)`

tests for exactly identical references

Return type

`bool`

Parameters

- `olditem` (`Claim`)
- `newitem` (`Claim`)

`remove(remove=True)`

Return type

`None`

property removed: `bool`

`reset_id()`

Reset the ID of the current claim

`set_value(value=None)`

Parameters

`value` (`str` | `None`)

property type: `str` | `dict`

`update(claim)`

Return type

`None`

Parameters

`claim` (`Claim`)

1.1.1.2.7 wikibaseintegrator.datatypes.globecoordinate module

```
class wikibaseintegrator.datatypes.globecoordinate.GlobeCoordinate(latitude=None,
                                                                    longitude=None,
                                                                    altitude=None,
                                                                    precision=None,
                                                                    globe=None,
                                                                    wikibase_url=None,
                                                                    **kwargs)
```

Bases: [BaseDataType](#)

Implements the Wikibase data type for globe coordinates

Parameters

- `latitude` (`float` | `None`)
- `longitude` (`float` | `None`)
- `altitude` (`float` | `None`)
- `precision` (`float` | `None`)

- **globe** (*str* | *None*)
- **wikibase_url** (*str* | *None*)
- **kwargs** (*Any*)

DTYPE = 'globe-coordinate'

__init__(*latitude=None, longitude=None, altitude=None, precision=None, globe=None, wikibase_url=None, **kwargs*)

Constructor, calls the superclass BaseDataType

Parameters

- **latitude** (*float* | *None*) – Latitude in decimal format
- **longitude** (*float* | *None*) – Longitude in decimal format
- **altitude** (*float* | *None*) – Altitude (in decimal format?) (Always None at this moment)
- **precision** (*float* | *None*) – Precision of the position measurement, default 1 / 3600
- **globe** (*str* | *None*) – The globe entity concept URI (ex: <http://www.wikidata.org/entity/Q2>) or 'Q2'
- **wikibase_url** (*str* | *None*) – The default wikibase URL, used when the globe is only an ID like 'Q2'. Use `wbi_config['WIKIBASE_URL']` by default.
- **kwargs** (*Any*)

equals(*that, include_ref=False, fref=None*)

Tests for equality of two statements. If comparing references, the order of the arguments matters!!! `self` is the current statement, the next argument is the new statement. Allows passing in a function to use to compare the references 'fref'. Default is equality. `fref` accepts two arguments 'oldrefs' and 'newrefs', each of which are a list of references, where each reference is a list of statements

Return type

`bool`

Parameters

- **that** (*Claim*)
- **include_ref** (*bool*)
- **fref** (*Callable* | *None*)

from_json(*json_data*)

Parameters

json_data (*dict[str, Any]*) – a JSON representation of a Claim

Return type

Claim

get_json()

Return type

`dict[str, Any]`

get_sparql_value()

Return type

`str`

has_equal_qualifiers(*other*)

Return type

bool

Parameters

other ([Claim](#))

property id: str | None

property mainsnak: [Snak](#)

parse_sparql_value(*value*, *type*='literal', *unit*='1')

Return type

bool

property qualifiers: [Qualifiers](#)

property qualifiers_order: list[str]

static quals_equal(*olditem*, *newitem*)

Tests for exactly identical qualifiers.

Return type

bool

Parameters

- **olditem** ([Claim](#))
- **newitem** ([Claim](#))

property rank: [WikibaseRank](#)

static ref_present(*olditem*, *newitem*)

Tests if (1) there is a single ref in the new item and (2) if this single ref is present among the claims of the old item.

Return type

bool

Parameters

- **olditem** ([Claim](#))
- **newitem** ([Claim](#))

property references: [References](#)

static refs_equal(*olditem*, *newitem*)

tests for exactly identical references

Return type

bool

Parameters

- **olditem** ([Claim](#))
- **newitem** ([Claim](#))

remove(*remove=True*)

Return type

None

property removed: `bool`

reset_id()

Reset the ID of the current claim

set_value(*latitude=None, longitude=None, altitude=None, precision=None, globe=None, wikibase_url=None*)

Parameters

- **latitude** (*float | None*)
- **longitude** (*float | None*)
- **altitude** (*float | None*)
- **precision** (*float | None*)
- **globe** (*str | None*)
- **wikibase_url** (*str | None*)

property type: `str | dict`

update(*claim*)

Return type

None

Parameters

claim ([Claim](#))

1.1.1.2.8 wikibaseintegrator.datatypes.item module

class `wikibaseintegrator.datatypes.item.Item`(*value=None, **kwargs*)

Bases: [BaseDataType](#)

Implements the Wikibase data type ‘wikibase-item’ with a value being another item ID

Parameters

- **value** (*str | int | None*)
- **kwargs** (*Any*)

DTYPE = `'wikibase-item'`

__init__(*value=None, **kwargs*)

Constructor, calls the superclass `BaseDataType`

Parameters

- **value** (*str | int | None*) – The item ID to serve as the value
- **kwargs** (*Any*)

equals(*that*, *include_ref=False*, *fref=None*)

Tests for equality of two statements. If comparing references, the order of the arguments matters!!! self is the current statement, the next argument is the new statement. Allows passing in a function to use to compare the references 'fref'. Default is equality. fref accepts two arguments 'oldrefs' and 'newrefs', each of which are a list of references, where each reference is a list of statements

Return type

bool

Parameters

- **that** (*Claim*)
- **include_ref** (*bool*)
- **fref** (*Callable | None*)

from_json(*json_data*)

Parameters

json_data (*dict[str, Any]*) – a JSON representation of a Claim

Return type

Claim

get_json()

Return type

dict[str, Any]

get_sparql_value()

Return type

str

has_equal_qualifiers(*other*)

Return type

bool

Parameters

other (*Claim*)

property id: str | None

property mainsnak: *Snak*

parse_sparql_value(*value*, *type='literal'*, *unit='1'*)

Return type

bool

property qualifiers: *Qualifiers*

property qualifiers_order: list[str]

static quals_equal(*olditem*, *newitem*)

Tests for exactly identical qualifiers.

Return type

bool

Parameters

- `olditem` (`Claim`)

- `newitem` (`Claim`)

property rank: [WikibaseRank](#)

static `ref_present`(*olditem*, *newitem*)

Tests if (1) there is a single ref in the new item and (2) if this single ref is present among the claims of the old item.

Return type

`bool`

Parameters

- `olditem` (`Claim`)

- `newitem` (`Claim`)

property references: [References](#)

static `refs_equal`(*olditem*, *newitem*)

tests for exactly identical references

Return type

`bool`

Parameters

- `olditem` (`Claim`)

- `newitem` (`Claim`)

remove(*remove=True*)

Return type

`None`

property removed: `bool`

reset_id()

Reset the ID of the current claim

set_value(*value=None*)

Parameters

`value` (`str` | `int` | `None`)

property type: `str` | `dict`

update(*claim*)

Return type

`None`

Parameters

`claim` (`Claim`)

1.1.1.2.9 wikibaseintegrator.datatypes.lexeme module

class wikibaseintegrator.datatypes.lexeme.**Lexeme**(value=None, **kwargs)

Bases: *BaseDataType*

Implements the Wikibase data type 'wikibase-lexeme'

Parameters

- **value** (*str | int | None*)
- **kwargs** (*Any*)

DTYPE = 'wikibase-lexeme'

__init__(value=None, **kwargs)

Constructor, calls the superclass BaseDataType

Parameters

- **value** (*str | int | None*) – The lexeme number to serve as a value
- **kwargs** (*Any*)

equals(that, include_ref=False, fref=None)

Tests for equality of two statements. If comparing references, the order of the arguments matters!!! self is the current statement, the next argument is the new statement. Allows passing in a function to use to compare the references 'fref'. Default is equality. fref accepts two arguments 'oldrefs' and 'newrefs', each of which are a list of references, where each reference is a list of statements

Return type

bool

Parameters

- **that** (*Claim*)
- **include_ref** (*bool*)
- **fref** (*Callable | None*)

from_json(json_data)

Parameters

json_data (*dict[str, Any]*) – a JSON representation of a Claim

Return type

Claim

get_json()

Return type

dict[str, Any]

get_sparql_value()

Return type

str

has_equal_qualifiers(other)

Return type

bool

Parameters

other (*Claim*)

property id: str | None

property mainsnak: *Snak*

parse_sparql_value(*value*, *type*='literal', *unit*='1')

Return type

bool

property qualifiers: *Qualifiers*

property qualifiers_order: list[str]

static quals_equal(*olditem*, *newitem*)

Tests for exactly identical qualifiers.

Return type

bool

Parameters

- **olditem** (*Claim*)
- **newitem** (*Claim*)

property rank: *WikibaseRank*

static ref_present(*olditem*, *newitem*)

Tests if (1) there is a single ref in the new item and (2) if this single ref is present among the claims of the old item.

Return type

bool

Parameters

- **olditem** (*Claim*)
- **newitem** (*Claim*)

property references: *References*

static refs_equal(*olditem*, *newitem*)

tests for exactly identical references

Return type

bool

Parameters

- **olditem** (*Claim*)
- **newitem** (*Claim*)

remove(*remove*=True)

Return type

None

property removed: bool

reset_id()

Reset the ID of the current claim

set_value(*value=None*)

Parameters

value (*str | int | None*)

property type: **str | dict**

update(*claim*)

Return type

None

Parameters

claim (*Claim*)

1.1.1.2.10 wikibaseintegrator.datatypes.math module

class `wikibaseintegrator.datatypes.math.Math`(*value=None, **kwargs*)

Bases: *String*

Implements the Wikibase data type ‘math’ for mathematical formula in TEX format

Parameters

- **value** (*str | None*)
- **kwargs** (*Any*)

DTYPE = ‘math’

__init__(*value=None, **kwargs*)

Constructor, calls the superclass `BaseDataType`

Parameters

- **value** (*str | None*) – The string to be used as the value
- **kwargs** (*Any*)

equals(*that, include_ref=False, fref=None*)

Tests for equality of two statements. If comparing references, the order of the arguments matters!!! `self` is the current statement, the next argument is the new statement. Allows passing in a function to use to compare the references ‘fref’. Default is equality. `fref` accepts two arguments ‘oldrefs’ and ‘newrefs’, each of which are a list of references, where each reference is a list of statements

Return type

bool

Parameters

- **that** (*Claim*)
- **include_ref** (*bool*)
- **fref** (*Callable | None*)

from_json(*json_data*)

Parameters

json_data (*dict[str, Any]*) – a JSON representation of a `Claim`

Return type

Claim

get_json()

Return type
dict[str, Any]

get_sparql_value()

Return type
str

has_equal_qualifiers(*other*)

Return type
bool

Parameters
other (Claim)

property id: str | None

property mainsnak: *Snak*

parse_sparql_value(*value*, *type*='literal', *unit*='1')

Return type
bool

property qualifiers: *Qualifiers*

property qualifiers_order: list[str]

static quals_equal(*olditem*, *newitem*)

Tests for exactly identical qualifiers.

Return type
bool

Parameters

- **olditem** (Claim)
- **newitem** (Claim)

property rank: *WikibaseRank*

static ref_present(*olditem*, *newitem*)

Tests if (1) there is a single ref in the new item and (2) if this single ref is present among the claims of the old item.

Return type
bool

Parameters

- **olditem** (Claim)
- **newitem** (Claim)

property references: *References*

static refs_equal(*olditem, newitem*)

tests for exactly identical references

Return type

bool

Parameters

- **olditem** (Claim)
- **newitem** (Claim)

remove(*remove=True*)

Return type

None

property removed: bool

reset_id()

Reset the ID of the current claim

set_value(*value=None*)

Parameters

value (*str* | *None*)

property type: str | dict

update(*claim*)

Return type

None

Parameters

claim (Claim)

1.1.1.2.11 wikibaseintegrator.datatypes.monolingualtext module

class wikibaseintegrator.datatypes.monolingualtext.**MonolingualText**(*text=None, language=None, **kwargs*)

Bases: *BaseDataType*

Implements the Wikibase data type for Monolingual Text strings

Parameters

- **text** (*str* | *None*)
- **language** (*str* | *None*)
- **kwargs** (*Any*)

DTYPE = 'monolingualtext'

__init__(*text=None, language=None, **kwargs*)

Constructor, calls the superclass BaseDataType

Parameters

- **text** (*str* | *None*) – The language specific string to be used as the value.
- **language** (*str* | *None*) – Specifies the language the value belongs to.

- **kwargs** (*Any*)

equals(*that, include_ref=False, fref=None*)

Tests for equality of two statements. If comparing references, the order of the arguments matters!!! self is the current statement, the next argument is the new statement. Allows passing in a function to use to compare the references 'fref'. Default is equality. fref accepts two arguments 'oldrefs' and 'newrefs', each of which are a list of references, where each reference is a list of statements

Return type

bool

Parameters

- **that** (*Claim*)
- **include_ref** (*bool*)
- **fref** (*Callable | None*)

from_json(*json_data*)

Parameters

json_data (*dict[str, Any]*) – a JSON representation of a Claim

Return type

Claim

get_json()

Return type

dict[str, Any]

get_sparql_value()

Return type

str

has_equal_qualifiers(*other*)

Return type

bool

Parameters

other (*Claim*)

property id: str | None

property mainsnak: *Snak*

parse_sparql_value(*value, type='literal', unit='1'*)

Return type

bool

property qualifiers: *Qualifiers*

property qualifiers_order: list[str]

static quals_equal(*olditem, newitem*)

Tests for exactly identical qualifiers.

Return type

bool

Parameters

- `olditem` (`Claim`)
- `newitem` (`Claim`)

property rank: `WikibaseRank`

static `ref_present`(*olditem*, *newitem*)

Tests if (1) there is a single ref in the new item and (2) if this single ref is present among the claims of the old item.

Return type

`bool`

Parameters

- `olditem` (`Claim`)
- `newitem` (`Claim`)

property references: `References`

static `refs_equal`(*olditem*, *newitem*)

tests for exactly identical references

Return type

`bool`

Parameters

- `olditem` (`Claim`)
- `newitem` (`Claim`)

remove(*remove=True*)

Return type

`None`

property removed: `bool`

reset_id()

Reset the ID of the current claim

set_value(*text=None*, *language=None*)

Parameters

- `text` (`str` | `None`)
- `language` (`str` | `None`)

property type: `str` | `dict`

update(*claim*)

Return type

`None`

Parameters

`claim` (`Claim`)

1.1.1.2.12 wikibaseintegrator.datatypes.musicalnotation module

class `wikibaseintegrator.datatypes.musicalnotation.MusicalNotation`(*value=None*, ***kwargs*)

Bases: *String*

Implements the Wikibase data type ‘musical-notation’

Parameters

- **value** (*str* | *None*)
- **kwargs** (*Any*)

DTYPE = ‘musical-notation’

__init__(*value=None*, ***kwargs*)

Constructor, calls the superclass `BaseDataType`

Parameters

- **value** (*str* | *None*) – The string to be used as the value
- **kwargs** (*Any*)

equals(*that*, *include_ref=False*, *fref=None*)

Tests for equality of two statements. If comparing references, the order of the arguments matters!!! `self` is the current statement, the next argument is the new statement. Allows passing in a function to use to compare the references ‘fref’. Default is equality. `fref` accepts two arguments ‘oldrefs’ and ‘newrefs’, each of which are a list of references, where each reference is a list of statements

Return type

bool

Parameters

- **that** (*Claim*)
- **include_ref** (*bool*)
- **fref** (*Callable* | *None*)

from_json(*json_data*)

Parameters

json_data (*dict[str, Any]*) – a JSON representation of a Claim

Return type

Claim

get_json()

Return type

dict[str, Any]

get_sparql_value()

Return type

str

has_equal_qualifiers(*other*)

Return type

bool

Parameters

other ([Claim](#))

property id: `str` | `None`

property mainsnak: [Snak](#)

parse_sparql_value(*value*, *type*='literal', *unit*='1')

Return type

`bool`

property qualifiers: [Qualifiers](#)

property qualifiers_order: `list[str]`

static quals_equal(*olditem*, *newitem*)

Tests for exactly identical qualifiers.

Return type

`bool`

Parameters

- **olditem** ([Claim](#))
- **newitem** ([Claim](#))

property rank: [WikibaseRank](#)

static ref_present(*olditem*, *newitem*)

Tests if (1) there is a single ref in the new item and (2) if this single ref is present among the claims of the old item.

Return type

`bool`

Parameters

- **olditem** ([Claim](#))
- **newitem** ([Claim](#))

property references: [References](#)

static refs_equal(*olditem*, *newitem*)

tests for exactly identical references

Return type

`bool`

Parameters

- **olditem** ([Claim](#))
- **newitem** ([Claim](#))

remove(*remove*=`True`)

Return type

`None`

property removed: `bool`

reset_id()

Reset the ID of the current claim

set_value(*value=None*)

Parameters

value (*str* | *None*)

property type: *str* | *dict*

update(*claim*)

Return type

None

Parameters

claim (*Claim*)

1.1.1.2.13 wikibaseintegrator.datatypes.property module

class `wikibaseintegrator.datatypes.property.Property`(*value=None, **kwargs*)

Bases: *BaseDataType*

Implements the Wikibase data type ‘property’

Parameters

- **value** (*str* | *int* | *None*)
- **kwargs** (*Any*)

DTYPE = ‘wikibase-property’

__init__(*value=None, **kwargs*)

Constructor, calls the superclass *BaseDataType*

Parameters

- **value** (*str* | *int* | *None*) – The property number to serve as a value
- **kwargs** (*Any*)

equals(*that, include_ref=False, fref=None*)

Tests for equality of two statements. If comparing references, the order of the arguments matters!!! *self* is the current statement, the next argument is the new statement. Allows passing in a function to use to compare the references ‘*fref*’. Default is equality. *fref* accepts two arguments ‘*oldrefs*’ and ‘*newrefs*’, each of which are a list of references, where each reference is a list of statements

Return type

bool

Parameters

- **that** (*Claim*)
- **include_ref** (*bool*)
- **fref** (*Callable* | *None*)

from_json(*json_data*)

Parameters

json_data (*dict[str, Any]*) – a JSON representation of a *Claim*

Return type

Claim

get_json()

Return type

dict[str, Any]

get_sparql_value()

Return type

str

has_equal_qualifiers(*other*)

Return type

bool

Parameters

other (*Claim*)

property id: str | None

property mainsnak: *Snak*

parse_sparql_value(*value*, *type*='literal', *unit*='1')

Return type

bool

property qualifiers: *Qualifiers*

property qualifiers_order: list[str]

static quals_equal(*olditem*, *newitem*)

Tests for exactly identical qualifiers.

Return type

bool

Parameters

- **olditem** (*Claim*)
- **newitem** (*Claim*)

property rank: *WikibaseRank*

static ref_present(*olditem*, *newitem*)

Tests if (1) there is a single ref in the new item and (2) if this single ref is present among the claims of the old item.

Return type

bool

Parameters

- **olditem** (*Claim*)
- **newitem** (*Claim*)

property references: *References*

static refs_equal(*olditem*, *newitem*)

tests for exactly identical references

Return type

bool

Parameters

- **olditem** (*Claim*)
- **newitem** (*Claim*)

remove(*remove=True*)

Return type

None

property removed: bool

reset_id()

Reset the ID of the current claim

set_value(*value=None*)

Parameters

value (*str | int | None*)

property type: str | dict

update(*claim*)

Return type

None

Parameters

claim (*Claim*)

1.1.1.2.14 wikibaseintegrator.datatypes.quantity module

class wikibaseintegrator.datatypes.quantity.**Quantity**(*amount=None*, *upper_bound=None*,
lower_bound=None, *unit='I'*,
wikibase_url=None, ***kwargs*)

Bases: *BaseDataType*

Implements the Wikibase data type for quantities

Parameters

- **amount** (*str | int | float | None*)
- **upper_bound** (*str | int | float | None*)
- **lower_bound** (*str | int | float | None*)
- **unit** (*str | int*)
- **wikibase_url** (*str | None*)
- **kwargs** (*Any*)

DTYPE = 'quantity'

`__init__`(*amount=None, upper_bound=None, lower_bound=None, unit='1', wikibase_url=None, **kwargs*)

Constructor, calls the superclass `BaseDataType`

Parameters

- **amount** (`str | int | float | None`) – The amount value
- **upper_bound** (`str | int | float | None`) – Upper bound of the value if it exists, e.g. for standard deviations
- **lower_bound** (`str | int | float | None`) – Lower bound of the value if it exists, e.g. for standard deviations
- **unit** (`str | int`) – The unit item URL or the QID a certain amount has been measured in (<https://www.wikidata.org/wiki/Wikidata:Units>). The default is dimensionless, represented by a ‘1’
- **wikibase_url** (`str | None`) – The default wikibase URL, used when the unit is only an ID like ‘Q2’. Use `wbi_config[‘WIKIBASE_URL’]` by default.
- **kwargs** (*Any*)

`equals`(*that, include_ref=False, fref=None*)

Tests for equality of two statements. If comparing references, the order of the arguments matters!!! `self` is the current statement, the next argument is the new statement. Allows passing in a function to use to compare the references ‘`fref`’. Default is equality. `fref` accepts two arguments ‘`oldrefs`’ and ‘`newrefs`’, each of which are a list of references, where each reference is a list of statements

Return type

`bool`

Parameters

- **that** (`Claim`)
- **include_ref** (`bool`)
- **fref** (`Callable | None`)

`from_json`(*json_data*)

Parameters

json_data (`dict[str, Any]`) – a JSON representation of a Claim

Return type

`Claim`

`get_json`()

Return type

`dict[str, Any]`

`get_sparql_value`()

Return type

`str`

`has_equal_qualifiers`(*other*)

Return type

`bool`

Parameters

other (`Claim`)

property id: `str` | `None`

property mainsnak: `Snak`

parse_sparql_value(*value*, *type*='literal', *unit*='1')

Return type

`bool`

property qualifiers: `Qualifiers`

property qualifiers_order: `list[str]`

static quals_equal(*olditem*, *newitem*)

Tests for exactly identical qualifiers.

Return type

`bool`

Parameters

- **olditem** (`Claim`)
- **newitem** (`Claim`)

property rank: `WikibaseRank`

static ref_present(*olditem*, *newitem*)

Tests if (1) there is a single ref in the new item and (2) if this single ref is present among the claims of the old item.

Return type

`bool`

Parameters

- **olditem** (`Claim`)
- **newitem** (`Claim`)

property references: `References`

static refs_equal(*olditem*, *newitem*)

tests for exactly identical references

Return type

`bool`

Parameters

- **olditem** (`Claim`)
- **newitem** (`Claim`)

remove(*remove*=`True`)

Return type

`None`

property removed: `bool`

reset_id()

Reset the ID of the current claim

set_value(*amount=None, upper_bound=None, lower_bound=None, unit='l', wikibase_url=None*)

Parameters

- **amount** (*str | int | float | None*)
- **upper_bound** (*str | int | float | None*)
- **lower_bound** (*str | int | float | None*)
- **unit** (*str | int*)
- **wikibase_url** (*str | None*)

property type: *str | dict*

update(*claim*)

Return type

None

Parameters

claim (*Claim*)

1.1.1.2.15 wikibaseintegrator.datatypes.sense module

class `wikibaseintegrator.datatypes.sense.Sense`(*value=None, **kwargs*)

Bases: *BaseDataType*

Implements the Wikibase data type ‘wikibase-sense’

Parameters

- **value** (*str | None*)
- **kwargs** (*Any*)

DTYPE = `'wikibase-sense'`

__init__(*value=None, **kwargs*)

Constructor, calls the superclass *BaseDataType*

Parameters

- **value** (*str | None*) – Value using the format “L<Lexeme ID>-S<Sense ID>” (example: L252248-S123)
- **kwargs** (*Any*)

equals(*that, include_ref=False, fref=None*)

Tests for equality of two statements. If comparing references, the order of the arguments matters!!! *self* is the current statement, the next argument is the new statement. Allows passing in a function to use to compare the references ‘*fref*’. Default is equality. *fref* accepts two arguments ‘*oldrefs*’ and ‘*newrefs*’, each of which are a list of references, where each reference is a list of statements

Return type

bool

Parameters

- **that** (*Claim*)
- **include_ref** (*bool*)
- **fref** (*Callable | None*)

from_json(*json_data*)

Parameters

json_data (dict[str, Any]) – a JSON representation of a Claim

Return type

Claim

get_json()

Return type

dict[str, Any]

get_lexeme_id()

Return the lexeme ID of the Sense

Return type

str

get_sparql_value()

Return type

str

has_equal_qualifiers(*other*)

Return type

bool

Parameters

other (*Claim*)

property id: str | None

property mainsnak: *Snak*

parse_sparql_value(*value*, *type*='literal', *unit*='1')

Return type

bool

property qualifiers: *Qualifiers*

property qualifiers_order: list[str]

static quals_equal(*olditem*, *newitem*)

Tests for exactly identical qualifiers.

Return type

bool

Parameters

- **olditem** (*Claim*)
- **newitem** (*Claim*)

property rank: *WikibaseRank*

static ref_present(*olditem*, *newitem*)

Tests if (1) there is a single ref in the new item and (2) if this single ref is present among the claims of the old item.

Return type

bool

Parameters

- **olditem** ([Claim](#))
- **newitem** ([Claim](#))

property references: [References](#)

static refs_equal(*olditem*, *newitem*)

tests for exactly identical references

Return type

bool

Parameters

- **olditem** ([Claim](#))
- **newitem** ([Claim](#))

remove(*remove=True*)

Return type

None

property removed: bool

reset_id()

Reset the ID of the current claim

set_value(*value=None*)

Parameters

value (*str* | *None*)

property type: **str** | **dict**

update(*claim*)

Return type

None

Parameters

claim ([Claim](#))

1.1.1.2.16 wikibaseintegrator.datatypes.string module

class `wikibaseintegrator.datatypes.string.String`(*value=None*, ***kwargs*)

Bases: [BaseDataType](#)

Implements the Wikibase data type 'string'

Parameters

- **value** (*str* | *None*)
- **kwargs** (*Any*)

DTYPE = 'string'

`__init__(value=None, **kwargs)`

Constructor, calls the superclass `BaseDataType`

Parameters

- **value** (`str` | `None`) – The string to be used as the value
- **kwargs** (`Any`)

`equals(that, include_ref=False, fref=None)`

Tests for equality of two statements. If comparing references, the order of the arguments matters!!! `self` is the current statement, the next argument is the new statement. Allows passing in a function to use to compare the references ‘`fref`’. Default is equality. `fref` accepts two arguments ‘`oldrefs`’ and ‘`newrefs`’, each of which are a list of references, where each reference is a list of statements

Return type

`bool`

Parameters

- **that** (`Claim`)
- **include_ref** (`bool`)
- **fref** (`Callable` | `None`)

`from_json(json_data)`

Parameters

json_data (`dict[str, Any]`) – a JSON representation of a `Claim`

Return type

`Claim`

`get_json()`

Return type

`dict[str, Any]`

`get_sparql_value()`

Return type

`str`

`has_equal_qualifiers(other)`

Return type

`bool`

Parameters

other (`Claim`)

property id: `str` | `None`

property mainsnak: `Snak`

`parse_sparql_value(value, type='literal', unit='1')`

Return type

`bool`

property qualifiers: `Qualifiers`

property qualifiers_order: `list[str]`

static `quals_equal(olditem, newitem)`

Tests for exactly identical qualifiers.

Return type

`bool`

Parameters

- `olditem` (`Claim`)
- `newitem` (`Claim`)

property rank: `WikibaseRank`

static `ref_present(olditem, newitem)`

Tests if (1) there is a single ref in the new item and (2) if this single ref is present among the claims of the old item.

Return type

`bool`

Parameters

- `olditem` (`Claim`)
- `newitem` (`Claim`)

property references: `References`

static `refs_equal(olditem, newitem)`

tests for exactly identical references

Return type

`bool`

Parameters

- `olditem` (`Claim`)
- `newitem` (`Claim`)

remove(`remove=True`)

Return type

`None`

property removed: `bool`

reset_id()

Reset the ID of the current claim

set_value(`value=None`)

Parameters

`value` (`str` | `None`)

property type: `str` | `dict`

update(*claim*)

Return type

None

Parameters

claim (*Claim*)

1.1.1.2.17 wikibaseintegrator.datatypes.tabulardata module

class `wikibaseintegrator.datatypes.tabulardata.TabularData`(*value=None, **kwargs*)

Bases: *BaseDataType*

Implements the Wikibase data type ‘tabular-data’

Parameters

- **value** (*str | None*)
- **kwargs** (*Any*)

DTYPE = ‘tabular-data’

__init__(*value=None, **kwargs*)

Constructor, calls the superclass *BaseDataType*

Parameters

- **value** (*str | None*) – Reference to tabular data file on Wikimedia Commons.
- **kwargs** (*Any*)

equals(*that, include_ref=False, fref=None*)

Tests for equality of two statements. If comparing references, the order of the arguments matters!!! *self* is the current statement, the next argument is the new statement. Allows passing in a function to use to compare the references ‘*fref*’. Default is equality. *fref* accepts two arguments ‘*oldrefs*’ and ‘*newrefs*’, each of which are a list of references, where each reference is a list of statements

Return type

bool

Parameters

- **that** (*Claim*)
- **include_ref** (*bool*)
- **fref** (*Callable | None*)

from_json(*json_data*)

Parameters

json_data (*dict[str, Any]*) – a JSON representation of a *Claim*

Return type

Claim

get_json()

Return type

dict[str, Any]

`get_sparql_value()`

Return type
str

`has_equal_qualifiers(other)`

Return type
bool

Parameters
`other` ([Claim](#))

property id: str | None

property mainsnak: [Snak](#)

`parse_sparql_value(value, type='literal', unit='1')`

Return type
bool

property qualifiers: [Qualifiers](#)

property qualifiers_order: list[str]

`static quals_equal(olditem, newitem)`

Tests for exactly identical qualifiers.

Return type
bool

Parameters

- `olditem` ([Claim](#))
- `newitem` ([Claim](#))

property rank: [WikibaseRank](#)

`static ref_present(olditem, newitem)`

Tests if (1) there is a single ref in the new item and (2) if this single ref is present among the claims of the old item.

Return type
bool

Parameters

- `olditem` ([Claim](#))
- `newitem` ([Claim](#))

property references: [References](#)

`static refs_equal(olditem, newitem)`

tests for exactly identical references

Return type
bool

Parameters

- `olditem` ([Claim](#))

- **newitem** (*Claim*)

remove (*remove=True*)

Return type
None

property removed: **bool**

reset_id()
Reset the ID of the current claim

set_value (*value=None*)

Parameters
value (*str | None*)

property type: **str | dict**

update (*claim*)

Return type
None

Parameters
claim (*Claim*)

1.1.1.2.18 wikibaseintegrator.datatypes.time module

class `wikibaseintegrator.datatypes.time.Time` (*time=None, before=0, after=0, precision=None, timezone=0, calendarmodel=None, wikibase_url=None, **kwargs*)

Bases: [BaseDataType](#)

Implements the Wikibase data type with date and time values

Parameters

- **time** (*str | None*)
- **before** (*int*)
- **after** (*int*)
- **precision** (*int | WikibaseTimePrecision | None*)
- **timezone** (*int*)
- **calendarmodel** (*str | None*)
- **wikibase_url** (*str | None*)
- **kwargs** (*Any*)

DTYPE = `'time'`

__init__ (*time=None, before=0, after=0, precision=None, timezone=0, calendarmodel=None, wikibase_url=None, **kwargs*)

Constructor, calls the superclass `BaseDataType`

Parameters

- **time** (*str | None*) – Explicit value for point in time, represented as a timestamp resembling ISO 8601. You can use the keyword `'now'` to get the current UTC date.

- **prop_nr** – The property number for this claim
- **before** (*int*) – explicit integer value for how many units after the given time it could be. The unit is given by the precision.
- **after** (*int*) – explicit integer value for how many units before the given time it could be. The unit is given by the precision.
- **precision** (*int* | *WikibaseTimePrecision* | *None*) – Precision value for dates and time as specified in the Wikibase data model (<https://www.wikidata.org/wiki/Special:ListDatatypes#time>)
- **timezone** (*int*) – The timezone which applies to the date and time as specified in the Wikibase data model
- **calendarmodel** (*str* | *None*) – The calendar model used for the date. URL to the Wikibase calendar model item or the QID.
- **wikibase_url** (*str* | *None*)
- **kwargs** (*Any*)

equals(*that*, *include_ref=False*, *fref=None*)

Tests for equality of two statements. If comparing references, the order of the arguments matters!!! *self* is the current statement, the next argument is the new statement. Allows passing in a function to use to compare the references ‘fref’. Default is equality. *fref* accepts two arguments ‘oldrefs’ and ‘newrefs’, each of which are a list of references, where each reference is a list of statements

Return type

bool

Parameters

- **that** (*Claim*)
- **include_ref** (*bool*)
- **fref** (*Callable* | *None*)

from_json(*json_data*)

Parameters

json_data (*dict[str, Any]*) – a JSON representation of a Claim

Return type

Claim

get_day()

Return type

int

get_json()

Return type

dict[str, Any]

get_month()

Return type

int

`get_sparql_value()`

Return type

str

`get_year()`

Return type

int

`has_equal_qualifiers(other)`

Return type

bool

Parameters

other ([Claim](#))

property id: str | None

property mainsnak: [Snak](#)

`parse_sparql_value(value, type='literal', unit='1')`

Return type

bool

property qualifiers: [Qualifiers](#)

property qualifiers_order: list[str]

static `quals_equal(olditem, newitem)`

Tests for exactly identical qualifiers.

Return type

bool

Parameters

- **olditem** ([Claim](#))
- **newitem** ([Claim](#))

property rank: [WikibaseRank](#)

static `ref_present(olditem, newitem)`

Tests if (1) there is a single ref in the new item and (2) if this single ref is present among the claims of the old item.

Return type

bool

Parameters

- **olditem** ([Claim](#))
- **newitem** ([Claim](#))

property references: [References](#)

static refs_equal(*olditem, newitem*)

tests for exactly identical references

Return type

bool

Parameters

- **olditem** (*Claim*)
- **newitem** (*Claim*)

remove(*remove=True*)

Return type

None

property removed: bool

reset_id()

Reset the ID of the current claim

set_value(*time=None, before=0, after=0, precision=None, timezone=0, calendarmodel=None, wikibase_url=None*)

Parameters

- **time** (*str | None*)
- **before** (*int*)
- **after** (*int*)
- **precision** (*int | WikibaseTimePrecision | None*)
- **timezone** (*int*)
- **calendarmodel** (*str | None*)
- **wikibase_url** (*str | None*)

property type: str | dict

update(*claim*)

Return type

None

Parameters

claim (*Claim*)

1.1.1.2.19 wikibaseintegrator.datatypes.url module

class wikibaseintegrator.datatypes.url.URL(*value=None, **kwargs*)

Bases: *BaseDataType*

Implements the Wikibase data type for URL strings

Parameters

- **value** (*str | None*)
- **kwargs** (*Any*)

DTYPE = 'url'

__init__(*value=None, **kwargs*)

Constructor, calls the superclass BaseDataType

Parameters

- **value** (*str* | *None*) – The URL to be used as the value
- **kwargs** (*Any*)

equals(*that, include_ref=False, fref=None*)

Tests for equality of two statements. If comparing references, the order of the arguments matters!!! *self* is the current statement, the next argument is the new statement. Allows passing in a function to use to compare the references 'fref'. Default is equality. *fref* accepts two arguments 'oldrefs' and 'newrefs', each of which are a list of references, where each reference is a list of statements

Return type

bool

Parameters

- **that** (*Claim*)
- **include_ref** (*bool*)
- **fref** (*Callable* | *None*)

from_json(*json_data*)

Parameters

json_data (*dict[str, Any]*) – a JSON representation of a Claim

Return type

Claim

get_json()

Return type

dict[str, Any]

get_sparql_value()

Return type

str

has_equal_qualifiers(*other*)

Return type

bool

Parameters

other (*Claim*)

property id: *str* | *None*

property mainsnak: *Snak*

parse_sparql_value(*value, type='literal', unit='1'*)

Return type

bool

property qualifiers: [Qualifiers](#)

property qualifiers_order: list[str]

static `quals_equal(olditem, newitem)`

Tests for exactly identical qualifiers.

Return type

bool

Parameters

- `olditem` (Claim)
- `newitem` (Claim)

property rank: [WikibaseRank](#)

static `ref_present(olditem, newitem)`

Tests if (1) there is a single ref in the new item and (2) if this single ref is present among the claims of the old item.

Return type

bool

Parameters

- `olditem` (Claim)
- `newitem` (Claim)

property references: [References](#)

static `refs_equal(olditem, newitem)`

tests for exactly identical references

Return type

bool

Parameters

- `olditem` (Claim)
- `newitem` (Claim)

`remove(remove=True)`

Return type

None

property removed: bool

`reset_id()`

Reset the ID of the current claim

`set_value(value=None)`

Parameters

`value` (str | None)

property type: str | dict

`update(claim)`

Return type

None

Parameters

`claim` (`Claim`)

1.1.1.3 Module contents

1.1.2 wikibaseintegrator.entities package

1.1.2.1 Submodules

1.1.2.1.1 wikibaseintegrator.entities.baseentity module

`class wikibaseintegrator.entities.baseentity.BaseEntity`(*api=None, title=None, pageid=None, lastrevid=None, type=None, id=None, claims=None, is_bot=None, login=None*)

Bases: object

Parameters

- `api` (`WikibaseIntegrator` | `None`)
- `title` (`str` | `None`)
- `pageid` (`int` | `None`)
- `lastrevid` (`int` | `None`)
- `type` (`str` | `None`)
- `id` (`str` | `None`)
- `claims` (`Claims` | `None`)
- `is_bot` (`bool` | `None`)
- `login` (`_Login` | `None`)

`ETYPE = 'base-entity'`

`__init__`(*api=None, title=None, pageid=None, lastrevid=None, type=None, id=None, claims=None, is_bot=None, login=None*)

Parameters

- `api` (`WikibaseIntegrator` | `None`)
- `title` (`str` | `None`)
- `pageid` (`int` | `None`)
- `lastrevid` (`int` | `None`)
- `type` (`str` | `None`)
- `id` (`str` | `None`)
- `claims` (`Claims` | `None`)
- `is_bot` (`bool` | `None`)
- `login` (`_Login` | `None`)

add_claims(*claims*, *action_if_exists*=*ActionIfExists.APPEND_OR_REPLACE*)

Parameters

- **claims** (*Claim* | list[*Claim*] | *Claims*) – A Claim, list of Claim or just a Claims object to add to this Claims object.
- **action_if_exists** (*ActionIfExists*) – Replace or append the statement. You can force an addition if the declaration already exists. KEEP: The original claim will be kept and the new one will not be added (because there is already one with this property number) APPEND_OR_REPLACE: The new claim will be added only if the new one is different (by comparing values) FORCE_APPEND: The new claim will be added even if already exists REPLACE_ALL: The new claim will replace the old one

Return type

BaseEntity

Returns

Return the updated entity object.

property api: *WikibaseIntegrator*

property claims: *Claims*

clear(***kwargs*)

Use the *clear* parameter of *wbentity* API call to clear the content of the entity. The entity will be updated with an empty dictionary.

Parameters

kwargs (Any) – More arguments for *_write()* and Python requests

Return type

dict[str, Any]

Returns

A dictionary representation of the edited Entity

delete(*login*=None, *allow_anonymous*=False, *is_bot*=None, ***kwargs*)

Delete the current entity. Use the *pageid* first if available and fallback to the *page title*.

Parameters

- **login** (*_Login* | None) – A *wbi_login.Login* instance
- **allow_anonymous** (bool) – Allow an unidentified edit to the MediaWiki API (default False)
- **is_bot** (bool | None) – Flag the edit as a bot
- **reason** – Reason for the deletion. If not set, an automatically generated reason will be used.
- **deletetalk** – Delete the talk page, if it exists.
- **kwargs** (Any) – Any additional keyword arguments to pass to *mediawiki_api_call_helper* and *requests.request*

Returns

The data returned by the API as a dictionary

download_entity_ttl(***kwargs*)

Return type

str

from_json(*json_data*)

Import a dictionary into BaseEntity attributes.

Parameters

json_data (dict[str, Any]) – A specific dictionary from MediaWiki API

Return type

BaseEntity

Returns

get_entity_url(*wikibase_url=None*)

Return type

str

Parameters

wikibase_url (str | None)

get_json()

To get the dict equivalent of the JSON representation of the entity.

Return type

dict[str, str | dict[str, list]]

Returns

property id: str | None

property lastrevid: int | None

property pageid: str | int | None

property title: str | None

property type: str

write_required(*base_filter=None, action_if_exists=ActionIfExists.REPLACE_ALL, **kwargs*)

Return type

bool

Parameters

- **base_filter** (list[BaseDataType | list[BaseDataType]] | None)
- **action_if_exists** (ActionIfExists)
- **kwargs** (Any)

1.1.2.1.2 wikibaseintegrator.entities.item module

class wikibaseintegrator.entities.item.**ItemEntity**(*labels=None, descriptions=None, aliases=None, sitelinks=None, **kwargs*)

Bases: *BaseEntity*

Parameters

- **labels** (Labels | None)
- **descriptions** (Descriptions | None)
- **aliases** (Aliases | None)

- **sitelinks** (*Sitelinks* | *None*)
- **kwargs** (*Any*)

ETYPE = 'item'

`__init__`(*labels=None, descriptions=None, aliases=None, sitelinks=None, **kwargs*)

Parameters

- **api**
- **labels** (*Labels* | *None*)
- **descriptions** (*Descriptions* | *None*)
- **aliases** (*Aliases* | *None*)
- **sitelinks** (*Sitelinks* | *None*)
- **kwargs** (*Any*)

Return type

None

`add_claims`(*claims, action_if_exists=ActionIfExists.APPEND_OR_REPLACE*)

Parameters

- **claims** (*Claim* | *list[Claim]* | *Claims*) – A Claim, list of Claim or just a Claims object to add to this Claims object.
- **action_if_exists** (*ActionIfExists*) – Replace or append the statement. You can force an addition if the declaration already exists. KEEP: The original claim will be kept and the new one will not be added (because there is already one with this property number) APPEND_OR_REPLACE: The new claim will be added only if the new one is different (by comparing values) FORCE_APPEND: The new claim will be added even if already exists REPLACE_ALL: The new claim will replace the old one

Return type

BaseEntity

Returns

Return the updated entity object.

property **aliases**: *Aliases*

property **api**: *WikibaseIntegrator*

property **claims**: *Claims*

`clear`(***kwargs*)

Use the *clear* parameter of *wbeditentity* API call to clear the content of the entity. The entity will be updated with an empty dictionary.

Parameters

kwargs (*Any*) – More arguments for `_write()` and Python requests

Return type

dict[str, Any]

Returns

A dictionary representation of the edited Entity

delete(*login=None, allow_anonymous=False, is_bot=None, **kwargs*)

Delete the current entity. Use the pageid first if available and fallback to the page title.

Parameters

- **login** (*_Login | None*) – A `wbi_login.Login` instance
- **allow_anonymous** (*bool*) – Allow an unidentified edit to the MediaWiki API (default `False`)
- **is_bot** (*bool | None*) – Flag the edit as a bot
- **reason** – Reason for the deletion. If not set, an automatically generated reason will be used.
- **deletetalk** – Delete the talk page, if it exists.
- **kwargs** (*Any*) – Any additional keyword arguments to pass to `mediawiki_api_call_helper` and `requests.request`

Returns

The data returned by the API as a dictionary

property descriptions: [Descriptions](#)

download_entity_ttl(***kwargs*)

Return type

`str`

from_json(*json_data*)

Import a dictionary into `BaseEntity` attributes.

Parameters

json_data (*dict[str, Any]*) – A specific dictionary from MediaWiki API

Return type

`ItemEntity`

Returns

get(*entity_id=None, **kwargs*)

Request the MediaWiki API to get data for the entity specified in argument.

Parameters

- **entity_id** (*str | int | None*) – The `entity_id` of the `Item` entity you want. Must start with a ‘Q’.
- **kwargs** (*Any*)

Return type

`ItemEntity`

Returns

an `ItemEntity` instance

get_entity_url(*wikibase_url=None*)

Return type

`str`

Parameters

wikibase_url (*str | None*)

get_json()

To get the dict equivalent of the JSON representation of the Item.

Return type

dict[str, str | dict]

Returns

A dict representation of the Item.

property id: str | None

property labels: *Labels*

property lastrevid: int | None

new(kwargs)**

Return type

ItemEntity

Parameters

kwargs (*Any*)

property pageid: str | int | None

property sitelinks: *Sitelinks*

property title: str | None

property type: str

write(kwargs)**

Write the ItemEntity data to the Wikibase instance and return the ItemEntity object returned by the instance.
extend_write()

Parameters

- **data** – The serialized object that is used as the data source. A newly created entity will be assigned an ‘id’.
- **summary** – A summary of the edit
- **login** – A login instance
- **allow_anonymous** – Force a check if the query can be anonymous or not
- **clear** – Clear the existing entity before updating
- **is_bot** – Add the bot flag to the query
- **kwargs** (*Any*) – More arguments for Python requests

Return type

ItemEntity

Returns

an ItemEntity of the response from the instance

write_required(base_filter=None, action_if_exists=ActionIfExists.REPLACE_ALL, **kwargs)

Return type

bool

Parameters

- **base_filter** (*list*[BaseDataType | list[BaseDataType]] | None)
- **action_if_exists** (ActionIfExists)
- **kwargs** (Any)

1.1.2.1.3 wikibaseintegrator.entities.lexeme module

```
class wikibaseintegrator.entities.lexeme.LexemeEntity(lemmas=None, lexical_category=None,
                                                    language=None, forms=None, senses=None,
                                                    **kwargs)
```

Bases: *BaseEntity*

Parameters

- **lemmas** (*Lemmas* | None)
- **lexical_category** (*str* | None)
- **language** (*str* | None)
- **forms** (*Forms* | None)
- **senses** (*Senses* | None)
- **kwargs** (Any)

ETYPE = 'lexeme'

```
__init__(lemmas=None, lexical_category=None, language=None, forms=None, senses=None, **kwargs)
```

Parameters

- **lemmas** (*Lemmas* | None)
- **lexical_category** (*str* | None)
- **language** (*str* | None)
- **forms** (*Forms* | None)
- **senses** (*Senses* | None)
- **kwargs** (Any)

```
add_claims(claims, action_if_exists=ActionIfExists.APPEND_OR_REPLACE)
```

Parameters

- **claims** (*Claim* | list[*Claim*] | *Claims*) – A Claim, list of Claim or just a Claims object to add to this Claims object.
- **action_if_exists** (*ActionIfExists*) – Replace or append the statement. You can force an addition if the declaration already exists. KEEP: The original claim will be kept and the new one will not be added (because there is already one with this property number) APPEND_OR_REPLACE: The new claim will be added only if the new one is different (by comparing values) FORCE_APPEND: The new claim will be added even if already exists REPLACE_ALL: The new claim will replace the old one

Return type

BaseEntity

Returns

Return the updated entity object.

property api: [WikibaseIntegrator](#)

property claims: [Claims](#)

clear(**kwargs)

Use the *clear* parameter of *wbentity* API call to clear the content of the entity. The entity will be updated with an empty dictionary.

Parameters

kwargs (Any) – More arguments for *_write()* and Python requests

Return type

dict[str, Any]

Returns

A dictionary representation of the edited Entity

delete(login=None, allow_anonymous=False, is_bot=None, **kwargs)

Delete the current entity. Use the *pageid* first if available and fallback to the *page title*.

Parameters

- **login** (_Login | None) – A *wbi_login.Login* instance
- **allow_anonymous** (bool) – Allow an unidentified edit to the MediaWiki API (default False)
- **is_bot** (bool | None) – Flag the edit as a bot
- **reason** – Reason for the deletion. If not set, an automatically generated reason will be used.
- **deletetalk** – Delete the talk page, if it exists.
- **kwargs** (Any) – Any additional keyword arguments to pass to *mediawiki_api_call_helper* and *requests.request*

Returns

The data returned by the API as a dictionary

download_entity_ttl(**kwargs)

Return type

str

property forms: [Forms](#)

from_json(json_data)

Import a dictionary into *BaseEntity* attributes.

Parameters

json_data (dict[str, Any]) – A specific dictionary from MediaWiki API

Return type

[LexemeEntity](#)

Returns

get(entity_id, **kwargs)

Return type

[LexemeEntity](#)

Parameters

- **entity_id** (*str | int*)

- **kwargs** (*Any*)

get_entity_url (*wikibase_url=None*)

Return type

str

Parameters

wikibase_url (*str | None*)

get_json()

To get the dict equivalent of the JSON representation of the entity.

Return type

dict[str, str | dict]

Returns

property id: *str | None*

property language: *str*

property lastrevid: *int | None*

property lemmas: *Lemmas*

property lexical_category: *str | None*

new (***kwargs*)

Return type

LexemeEntity

Parameters

kwargs (*Any*)

property pageid: *str | int | None*

property senses: *Senses*

property title: *str | None*

property type: *str*

write (***kwargs*)

Write the LexemeEntity data to the Wikibase instance and return the LexemeEntity object returned by the instance.

Parameters

- **data** – The serialized object that is used as the data source. A newly created entity will be assigned an ‘id’.
- **summary** – A summary of the edit
- **login** – A login instance
- **allow_anonymous** – Force a check if the query can be anonymous or not
- **clear** – Clear the existing entity before updating
- **is_bot** – Add the bot flag to the query

- **kwargs** (Any) – More arguments for Python requests

Return type

LexemeEntity

Returns

an *LexemeEntity* of the response from the instance

write_required(*base_filter=None, action_if_exists=ActionIfExists.REPLACE_ALL, **kwargs*)

Return type

bool

Parameters

- **base_filter** (*list[BaseDataType | list[BaseDataType]] | None*)
- **action_if_exists** (*ActionIfExists*)
- **kwargs** (Any)

1.1.2.1.4 wikibaseintegrator.entities.mediainfo module

class wikibaseintegrator.entities.mediainfo.**MediaInfoEntity**(*labels=None, descriptions=None, aliases=None, **kwargs*)

Bases: *BaseEntity*

Parameters

- **labels** (*Labels | None*)
- **descriptions** (*Descriptions | None*)
- **aliases** (*Aliases | None*)
- **kwargs** (Any)

ETYPE = 'mediainfo'

__init__(*labels=None, descriptions=None, aliases=None, **kwargs*)

Parameters

- **api**
- **labels** (*Labels | None*)
- **descriptions** (*Descriptions | None*)
- **aliases** (*Aliases | None*)
- **sitelinks**
- **kwargs** (Any)

Return type

None

add_claims(*claims, action_if_exists=ActionIfExists.APPEND_OR_REPLACE*)

Parameters

- **claims** (*Claim | list[Claim] | Claims*) – A Claim, list of Claim or just a Claims object to add to this Claims object.

- **action_if_exists** (*ActionIfExists*) – Replace or append the statement. You can force an addition if the declaration already exists. KEEP: The original claim will be kept and the new one will not be added (because there is already one with this property number) APPEND_OR_REPLACE: The new claim will be added only if the new one is different (by comparing values) FORCE_APPEND: The new claim will be added even if already exists REPLACE_ALL: The new claim will replace the old one

Return type*BaseEntity***Returns**

Return the updated entity object.

property aliases: *Aliases***property api:** *WikibaseIntegrator***property claims:** *Claims***clear**(***kwargs*)Use the *clear* parameter of *wbentity* API call to clear the content of the entity. The entity will be updated with an empty dictionary.**Parameters****kwargs** (Any) – More arguments for *_write()* and Python requests**Return type**

dict[str, Any]

Returns

A dictionary representation of the edited Entity

delete(*login=None, allow_anonymous=False, is_bot=None, **kwargs*)

Delete the current entity. Use the pageid first if available and fallback to the page title.

Parameters

- **login** (*_Login | None*) – A *wbi_login.Login* instance
- **allow_anonymous** (bool) – Allow an unidentified edit to the MediaWiki API (default False)
- **is_bot** (bool | None) – Flag the edit as a bot
- **reason** – Reason for the deletion. If not set, an automatically generated reason will be used.
- **deletetalk** – Delete the talk page, if it exists.
- **kwargs** (Any) – Any additional keyword arguments to pass to *mediawiki_api_call_helper* and *requests.request*

Returns

The data returned by the API as a dictionary

property descriptions: *Descriptions***download_entity_ttl**(***kwargs*)**Return type**

str

from_json(*json_data*)

Import a dictionary into BaseEntity attributes.

Parameters

json_data (dict[str, Any]) – A specific dictionary from MediaWiki API

Return type

MediaInfoEntity

Returns

get(*entity_id*, ****kwargs**)

Return type

MediaInfoEntity

Parameters

- **entity_id** (*str* | *int*)
- **kwargs** (*Any*)

get_by_title(*titles*, *sites*='commonswiki', ****kwargs**)

Return type

MediaInfoEntity

Parameters

- **titles** (*list[str]* | *str*)
- **sites** (*str*)
- **kwargs** (*Any*)

get_entity_url(*wikibase_url*=None)

Return type

str

Parameters

wikibase_url (*str* | None)

get_json()

To get the dict equivalent of the JSON representation of the entity.

Return type

dict[str, str | dict]

Returns

property id: *str* | None

property labels: *Labels*

property lastrevid: *int* | None

new(****kwargs**)

Return type

MediaInfoEntity

Parameters

kwargs (*Any*)

property pageid: str | int | None

property title: str | None

property type: str

write(kwargs)**

Write the MediaInfoEntity data to the Wikibase instance and return the MediaInfoEntity object returned by the instance.

Parameters

- **data** – The serialized object that is used as the data source. A newly created entity will be assigned an ‘id’.
- **summary** – A summary of the edit
- **login** – A login instance
- **allow_anonymous** – Force a check if the query can be anonymous or not
- **clear** – Clear the existing entity before updating
- **is_bot** – Add the bot flag to the query
- **kwargs** (Any) – More arguments for Python requests

Return type

MediaInfoEntity

Returns

an MediaInfoEntity of the response from the instance

write_required(base_filter=None, action_if_exists=ActionIfExists.REPLACE_ALL, **kwargs)

Return type

bool

Parameters

- **base_filter** (*list*[BaseDataType | *list*[BaseDataType]] | None)
- **action_if_exists** (ActionIfExists)
- **kwargs** (Any)

1.1.2.1.5 wikibaseintegrator.entities.property module

class wikibaseintegrator.entities.property.**PropertyEntity**(datatype=None, labels=None, descriptions=None, aliases=None, **kwargs)

Bases: *BaseEntity*

Parameters

- **datatype** (str | WikibaseDatatype | None)
- **labels** (Labels | None)
- **descriptions** (Descriptions | None)
- **aliases** (Aliases | None)
- **kwargs** (Any)

ETYPE = 'property'

__init__(*datatype=None, labels=None, descriptions=None, aliases=None, **kwargs*)

Parameters

- **datatype** (*str* | *WikibaseDatatype* | *None*)
- **labels** (*Labels* | *None*)
- **descriptions** (*Descriptions* | *None*)
- **aliases** (*Aliases* | *None*)
- **kwargs** (*Any*)

add_claims(*claims, action_if_exists=ActionIfExists.APPEND_OR_REPLACE*)

Parameters

- **claims** (*Claim* | *list[Claim]* | *Claims*) – A Claim, list of Claim or just a Claims object to add to this Claims object.
- **action_if_exists** (*ActionIfExists*) – Replace or append the statement. You can force an addition if the declaration already exists. KEEP: The original claim will be kept and the new one will not be added (because there is already one with this property number) APPEND_OR_REPLACE: The new claim will be added only if the new one is different (by comparing values) FORCE_APPEND: The new claim will be added even if already exists REPLACE_ALL: The new claim will replace the old one

Return type

BaseEntity

Returns

Return the updated entity object.

property aliases: *Aliases*

property api: *WikibaseIntegrator*

property claims: *Claims*

clear(***kwargs*)

Use the *clear* parameter of *wbeditentity* API call to clear the content of the entity. The entity will be updated with an empty dictionary.

Parameters

kwargs (*Any*) – More arguments for *_write()* and Python requests

Return type

dict[str, Any]

Returns

A dictionary representation of the edited Entity

property datatype: *str* | *WikibaseDatatype* | *None*

delete(*login=None, allow_anonymous=False, is_bot=None, **kwargs*)

Delete the current entity. Use the pageid first if available and fallback to the page title.

Parameters

- **login** (*_Login* | *None*) – A *wbi_login.Login* instance

- **allow_anonymous** (bool) – Allow an unidentified edit to the MediaWiki API (default False)
- **is_bot** (bool | None) – Flag the edit as a bot
- **reason** – Reason for the deletion. If not set, an automatically generated reason will be used.
- **deletetalk** – Delete the talk page, if it exists.
- **kwargs** (Any) – Any additional keyword arguments to pass to `mediawiki_api_call_helper` and `requests.request`

Returns

The data returned by the API as a dictionary

property descriptions: [Descriptions](#)

`download_entity_ttl(**kwargs)`

Return type

str

`from_json(json_data)`

Import a dictionary into BaseEntity attributes.

Parameters

json_data (dict[str, Any]) – A specific dictionary from MediaWiki API

Return type

PropertyEntity

Returns

`get(entity_id, **kwargs)`

Return type

PropertyEntity

Parameters

- **entity_id** (str | int)
- **kwargs** (Any)

`get_entity_url(wikibase_url=None)`

Return type

str

Parameters

wikibase_url (str | None)

`get_json()`

To get the dict equivalent of the JSON representation of the entity.

Return type

dict[str, str | Any]

Returns

property id: str | None

property labels: [Labels](#)

property lastrevid: int | None

new(**kwargs)

Return type

PropertyEntity

Parameters

kwargs (*Any*)

property pageid: str | int | None

property title: str | None

property type: str

write(**kwargs)

Write the PropertyEntity data to the Wikibase instance and return the PropertyEntity object returned by the instance.

Parameters

- **data** – The serialized object that is used as the data source. A newly created entity will be assigned an ‘id’.
- **summary** – A summary of the edit
- **login** – A login instance
- **allow_anonymous** – Force a check if the query can be anonymous or not
- **clear** – Clear the existing entity before updating
- **is_bot** – Add the bot flag to the query
- **kwargs** (*Any*) – More arguments for Python requests

Return type

PropertyEntity

Returns

an PropertyEntity of the response from the instance

write_required(base_filter=None, action_if_exists=ActionIfExists.REPLACE_ALL, **kwargs)

Return type

bool

Parameters

- **base_filter** (*list*[BaseDataType | *list*[BaseDataType]] | None)
- **action_if_exists** (ActionIfExists)
- **kwargs** (*Any*)

1.1.2.2 Module contents

1.1.3 wikibaseintegrator.models package

1.1.3.1 Submodules

1.1.3.1.1 wikibaseintegrator.models.aliases module

class wikibaseintegrator.models.aliases.**Alias**(*language, value=None*)

Bases: [LanguageValue](#)

Parameters

- **language** (*str*)
- **value** (*str | None*)

__init__(*language, value=None*)

Parameters

- **language** (*str*)
- **value** (*str | None*)

from_json(*json_data*)

Return type

[LanguageValue](#)

Parameters

json_data (*dict[str, str]*)

get_json()

Return type

dict[str, str | None]

property language: **str**

remove()

Return type

[LanguageValue](#)

property removed: **bool**

property value: **str | None**

The value of the LanguageValue instance. :return: A string with the value of the LanguageValue instance.

class wikibaseintegrator.models.aliases.**Aliases**(*language=None, value=None*)

Bases: [BaseModel](#)

Parameters

- **language** (*str | None*)
- **value** (*str | None*)

__init__(*language=None, value=None*)

Parameters

- **language** (*str | None*)
- **value** (*str | None*)

property aliases: **dict[str, list[[Alias](#)]]**

from_json(*json_data*)

Return type

Aliases

Parameters

json_data (*dict[str, list]*)

get(*language=None*)

Return type

list[Alias] | None

Parameters

language (*str | None*)

get_json()

Return type

dict[str, list]

set(*language=None, values=None, action_if_exists=ActionIfExists.APPEND_OR_REPLACE*)

Return type

Aliases

Parameters

- **language** (*str | None*)
- **values** (*str | list | None*)
- **action_if_exists** (*ActionIfExists*)

1.1.3.1.2 wikibaseintegrator.models.basemodel module

class wikibaseintegrator.models.basemodel.**BaseModel**

Bases: *object*

__init__()

1.1.3.1.3 wikibaseintegrator.models.claims module

class wikibaseintegrator.models.claims.**Claim**(*qualifiers=None, rank=None, references=None, snaktype=WikibaseSnakType.KNOWN_VALUE*)

Bases: *BaseModel*

Parameters

- **qualifiers** (*Qualifiers | None*)
- **rank** (*WikibaseRank | None*)
- **references** (*References | list[Claim | list[Claim]] | None*)
- **snaktype** (*WikibaseSnakType*)

DTYPE = 'claim'

`__init__`(*qualifiers=None, rank=None, references=None, snaktype=WikibaseSnakType.KNOWN_VALUE*)

Parameters

- **qualifiers** (*Qualifiers* | None)
- **rank** (*WikibaseRank* | None)
- **references** (*References* | list[*Claim*] | list[list[*Claim*]] | None) – A References object, a list of Claim object or a list of list of Claim object
- **snaktype** (*WikibaseSnakType*)

Return type

None

`equals`(*that, include_ref=False, fref=None*)

Tests for equality of two statements. If comparing references, the order of the arguments matters!!! self is the current statement, the next argument is the new statement. Allows passing in a function to use to compare the references ‘fref’. Default is equality. fref accepts two arguments ‘oldrefs’ and ‘newrefs’, each of which are a list of references, where each reference is a list of statements

Return type

bool

Parameters

- **that** (*Claim*)
- **include_ref** (*bool*)
- **fref** (*Callable* | None)

`from_json`(*json_data*)

Parameters

json_data (dict[str, Any]) – a JSON representation of a Claim

Return type

Claim

`get_json`()

Return type

dict[str, Any]

`abstractmethod get_sparql_value`()

Return type

str

`has_equal_qualifiers`(*other*)

Return type

bool

Parameters

other (*Claim*)

property id: str | None

property mainsnak: *Snak*

property qualifiers: *Qualifiers*

property qualifiers_order: `list[str]`

static `quals_equal(olditem, newitem)`

Tests for exactly identical qualifiers.

Return type

`bool`

Parameters

- `olditem` (`Claim`)
- `newitem` (`Claim`)

property rank: `WikibaseRank`

static `ref_present(olditem, newitem)`

Tests if (1) there is a single ref in the new item and (2) if this single ref is present among the claims of the old item.

Return type

`bool`

Parameters

- `olditem` (`Claim`)
- `newitem` (`Claim`)

property references: `References`

static `refs_equal(olditem, newitem)`

tests for exactly identical references

Return type

`bool`

Parameters

- `olditem` (`Claim`)
- `newitem` (`Claim`)

remove(`remove=True`)

Return type

`None`

property removed: `bool`

reset_id()

Reset the ID of the current claim

property type: `str | dict`

update(`claim`)

Return type

`None`

Parameters

`claim` (`Claim`)

```
class wikibaseintegrator.models.claims.Claims
```

```
Bases: BaseModel
```

```
__init__()
```

Return type

None

```
add(claims, action_if_exists=ActionIfExists.REPLACE_ALL)
```

Parameters

- **claims** (*Claims* | list[*Claim*] | *Claim*) – A Claim, list of Claim or just a Claims object to add to this Claims object.
- **action_if_exists** (*ActionIfExists*) – Replace or append the statement. You can force an addition if the declaration already exists. Defaults to REPLACE_ALL. KEEP: The original claim will be kept and the new one will not be added (because there is already one with this property number) APPEND_OR_REPLACE: The new claim will be added only if the new one is different (by comparing values) FORCE_APPEND: The new claim will be added even if already exists REPLACE_ALL: The new claim will replace the old one

Return type

Claims

Returns

Return the updated Claims object.

```
property claims: dict[str, list[Claim]]
```

```
from_json(json_data)
```

Return type

Claims

Parameters

json_data (*dict[str, Any]*)

```
get(property)
```

Return type

list[*Claim*]

Parameters

property (*str* | *int*)

```
get_json()
```

Return type

dict[str, list]

```
remove(property=None)
```

Return type

None

Parameters

property (*str* | *None*)

1.1.3.1.4 wikibaseintegrator.models.descriptions module

class wikibaseintegrator.models.descriptions.**Descriptions**

Bases: *LanguageValues*

__init__()

Return type

None

add(*language_value*)

Add a LanguageValue object to the list

Parameters

language_value (*LanguageValue*) – A LanguageValue object

Return type

LanguageValues

Returns

The current LanguageValues object

from_json(*json_data*)

Create a new Descriptions object from a JSON/dict object.

Parameters

json_data (dict[str, dict]) – A dict object who use the same format as Wikibase.

Return type

Descriptions

Returns

The newly created or updated object.

get(*language=None*)

Get a LanguageValue object with the specified language. Use the default language in wbi_config if none specified.

Parameters

language (str | None) – The requested language.

Return type

LanguageValue | None

Returns

The related LanguageValue object or None if none found.

get_json()

Get a formatted dict who respect the Wikibase format.

Return type

dict[str, dict]

Returns

A dict using Wikibase format.

set(*language=None, value=None, action_if_exists=ActionIfExists.REPLACE_ALL*)

Create or update the specified language with the valued passed in arguments.

Parameters

- **language** (`str` | `None`) – The desired language.
- **value** (`str` | `None`) – The desired value of the `LanguageValue` object. Use `None` to delete an existing `LanguageValue` object from the list.
- **action_if_exists** (`ActionIfExists`) – The action if the `LanguageValue` object is already defined. Can be `ActionIfExists.REPLACE_ALL` (default) or `ActionIfExists.KEEP`.

Return type`LanguageValue` | `None`**Returns**

The created or updated `LanguageValue`. `None` if there's no `LanguageValue` object with this language.

property values: `dict[str, LanguageValue]`

A dict of `LanguageValue` with the language as key.

1.1.3.1.5 wikibaseintegrator.models.forms module

```
class wikibaseintegrator.models.forms.Form(form_id=None, representations=None,
                                           grammatical_features=None, claims=None)
```

Bases: `BaseModel`

Parameters

- **form_id** (`str` | `None`)
- **representations** (`Representations` | `None`)
- **grammatical_features** (`str` | `int` | `list[str]` | `None`)
- **claims** (`Claims` | `None`)

```
__init__(form_id=None, representations=None, grammatical_features=None, claims=None)
```

Parameters

- **form_id** (`str` | `None`)
- **representations** (`Representations` | `None`)
- **grammatical_features** (`str` | `int` | `list[str]` | `None`)
- **claims** (`Claims` | `None`)

property claims

```
from_json(json_data)
```

Return type`Form`**Parameters**

json_data (`dict[str, Any]`)

```
get_json()
```

Return type`dict[str, str | dict | list]`

property grammatical_features

property id

property representations

class wikibaseintegrator.models.forms.**Forms**

Bases: *BaseModel*

__init__()

Return type

None

add(*form*)

Return type

Forms

Parameters

form (*Form*)

property forms: list

from_json(*json_data*)

Return type

Forms

Parameters

json_data (*list[dict]*)

get(*id*)

Return type

Form | None

Parameters

id (*str*)

get_json()

Return type

list[dict]

class wikibaseintegrator.models.forms.**Representations**

Bases: *LanguageValues*

__init__()

Return type

None

add(*language_value*)

Add a LanguageValue object to the list

Parameters

language_value (*LanguageValue*) – A LanguageValue object

Return type

LanguageValues

Returns

The current LanguageValues object

from_json(*json_data*)

Create a new LanguageValues object from a JSON/dict object.

Parameters

json_data (dict[str, dict]) – A dict object who use the same format as Wikibase.

Return type

LanguageValues

Returns

The newly created or updated object.

get(*language=None*)

Get a LanguageValue object with the specified language. Use the default language in wbi_config if none specified.

Parameters

language (str | None) – The requested language.

Return type

LanguageValue | None

Returns

The related LanguageValue object or None if none found.

get_json()

Get a formatted dict who respect the Wikibase format.

Return type

dict[str, dict]

Returns

A dict using Wikibase format.

set(*language=None, value=None, action_if_exists=ActionIfExists.REPLACE_ALL*)

Create or update the specified language with the valued passed in arguments.

Parameters

- **language** (str | None) – The desired language.
- **value** (str | None) – The desired value of the LanguageValue object. Use None to delete an existing LanguageValue object from the list.
- **action_if_exists** (*ActionIfExists*) – The action if the LanguageValue object is already defined. Can be *ActionIfExists.REPLACE_ALL* (default) or *ActionIfExists.KEEP*.

Return type

LanguageValue | None

Returns

The created or updated LanguageValue. None if there's no LanguageValue object with this language.

property values: dict[str, *LanguageValue*]

A dict of LanguageValue with the language as key.

1.1.3.1.6 wikibaseintegrator.models.labels module

class wikibaseintegrator.models.labels.Labels

Bases: *LanguageValues*

__init__()

Return type

None

add(*language_value*)

Add a LanguageValue object to the list

Parameters

language_value (*LanguageValue*) – A LanguageValue object

Return type

LanguageValues

Returns

The current LanguageValues object

from_json(*json_data*)

Create a new Labels object from a JSON/dict object.

Parameters

json_data (dict[str, dict]) – A dict object who use the same format as Wikibase.

Return type

Labels

Returns

The newly created or updated object.

get(*language=None*)

Get a LanguageValue object with the specified language. Use the default language in wbi_config if none specified.

Parameters

language (str | None) – The requested language.

Return type

LanguageValue | None

Returns

The related LanguageValue object or None if none found.

get_json()

Get a formatted dict who respect the Wikibase format.

Return type

dict[str, dict]

Returns

A dict using Wikibase format.

set(*language=None, value=None, action_if_exists=ActionIfExists.REPLACE_ALL*)

Create or update the specified language with the valued passed in arguments.

Parameters

- **language** (`str` | `None`) – The desired language.
- **value** (`str` | `None`) – The desired value of the `LanguageValue` object. Use `None` to delete an existing `LanguageValue` object from the list.
- **action_if_exists** (`ActionIfExists`) – The action if the `LanguageValue` object is already defined. Can be `ActionIfExists.REPLACE_ALL` (default) or `ActionIfExists.KEEP`.

Return type`LanguageValue` | `None`**Returns**

The created or updated `LanguageValue`. `None` if there's no `LanguageValue` object with this language.

property values: `dict[str, LanguageValue]`

A dict of `LanguageValue` with the language as key.

1.1.3.1.7 wikibaseintegrator.models.language_values module

`class wikibaseintegrator.models.language_values.LanguageValue(language, value=None)`

Bases: `BaseModel`

Parameters

- **language** (`str`)
- **value** (`str` | `None`)

`__init__`(`language`, `value=None`)

Parameters

- **language** (`str`)
- **value** (`str` | `None`)

`from_json`(`json_data`)

Return type`LanguageValue`**Parameters**

`json_data` (`dict[str, str]`)

`get_json`()

Return type`dict[str, str | None]`

property language: `str`

`remove`()

Return type`LanguageValue`

property removed: `bool`

property value: `str` | `None`

The value of the `LanguageValue` instance. :return: A string with the value of the `LanguageValue` instance.

class wikibaseintegrator.models.language_values.**LanguageValues**

Bases: *BaseModel*

__init__()

Return type

None

add(*language_value*)

Add a LanguageValue object to the list

Parameters

language_value (*LanguageValue*) – A LanguageValue object

Return type

LanguageValues

Returns

The current LanguageValues object

from_json(*json_data*)

Create a new LanguageValues object from a JSON/dict object.

Parameters

json_data (dict[str, dict]) – A dict object who use the same format as Wikibase.

Return type

LanguageValues

Returns

The newly created or updated object.

get(*language=None*)

Get a LanguageValue object with the specified language. Use the default language in wbi_config if none specified.

Parameters

language (str | None) – The requested language.

Return type

LanguageValue | None

Returns

The related LanguageValue object or None if none found.

get_json()

Get a formatted dict who respect the Wikibase format.

Return type

dict[str, dict]

Returns

A dict using Wikibase format.

set(*language=None, value=None, action_if_exists=ActionIfExists.REPLACE_ALL*)

Create or update the specified language with the valued passed in arguments.

Parameters

- **language** (str | None) – The desired language.

- **value** (`str` | `None`) – The desired value of the `LanguageValue` object. Use `None` to delete an existing `LanguageValue` object from the list.
- **action_if_exists** (`ActionIfExists`) – The action if the `LanguageValue` object is already defined. Can be `ActionIfExists.REPLACE_ALL` (default) or `ActionIfExists.KEEP`.

Return type`LanguageValue` | `None`**Returns**

The created or updated `LanguageValue`. `None` if there's no `LanguageValue` object with this language.

property values: `dict[str, LanguageValue]`

A dict of `LanguageValue` with the language as key.

1.1.3.1.8 wikibaseintegrator.models.lemmas module

class `wikibaseintegrator.models.lemmas.Lemmas`

Bases: `LanguageValues`

`__init__()`

Return type`None`

`add(language_value)`

Add a `LanguageValue` object to the list

Parameters

language_value (`LanguageValue`) – A `LanguageValue` object

Return type`LanguageValues`**Returns**

The current `LanguageValues` object

`from_json(json_data)`

Create a new `Lemmas` object from a JSON/dict object.

Parameters

json_data (`dict[str, dict]`) – A dict object who use the same format as Wikibase.

Return type`Lemmas`**Returns**

The newly created or updated object.

`get(language=None)`

Get a `LanguageValue` object with the specified language. Use the default language in `wbi_config` if none specified.

Parameters

language (`str` | `None`) – The requested language.

Return type`LanguageValue` | `None`

Returns

The related LanguageValue object or None if none found.

get_json()

Get a formatted dict who respect the Wikibase format.

Return type

dict[str, dict]

Returns

A dict using Wikibase format.

set(*language=None, value=None, action_if_exists=ActionIfExists.REPLACE_ALL*)

Create or update the specified language with the valued passed in arguments.

Parameters

- **language** (str | None) – The desired language.
- **value** (str | None) – The desired value of the LanguageValue object. Use None to delete an existing LanguageValue object from the list.
- **action_if_exists** (*ActionIfExists*) – The action if the LanguageValue object is already defined. Can be ActionIfExists.REPLACE_ALL (default) or ActionIfExists.KEEP.

Return type

LanguageValue | None

Returns

The created or updated LanguageValue. None if there's no LanguageValue object with this language.

property values: dict[str, *LanguageValue*]

A dict of LanguageValue with the language as key.

1.1.3.1.9 wikibaseintegrator.models.qualifiers module

class wikibaseintegrator.models.qualifiers.**Qualifiers**

Bases: *BaseModel*

__init__()**Return type**

None

add(*qualifier, action_if_exists=ActionIfExists.REPLACE_ALL*)**Return type**

Qualifiers

Parameters

- **qualifier** (*Snak* | *Claim*)
- **action_if_exists** (*ActionIfExists*)

clear(*property=None*)**Return type**

Qualifiers

Parameters
property (*str* | *int* | *None*)

from_json(*json_data*)

Return type
Qualifiers

Parameters
json_data (*dict*[*str*, *list*])

get(*property*)

Return type
list[*Snak*]

Parameters
property (*str* | *int*)

get_json()

Return type
dict[*str*, *list*]

property qualifiers

remove(*qualifier*)

Return type
Qualifiers

Parameters
qualifier (*Snak* | *Claim*)

set(*qualifiers*)

Return type
Qualifiers

Parameters
qualifiers (*Qualifiers* | *list*[*Snak* | *Claim*] | *None*)

1.1.3.1.10 wikibaseintegrator.models.references module

class wikibaseintegrator.models.references.**Reference**(*snaks=None*, *snaks_order=None*)

Bases: *BaseModel*

Parameters

- **snaks** (*Snaks* | *None*)
- **snaks_order** (*list* | *None*)

__init__(*snaks=None*, *snaks_order=None*)

Parameters

- **snaks** (*Snaks* | *None*)
- **snaks_order** (*list* | *None*)

add(*snak=None, action_if_exists=ActionIfExists.REPLACE_ALL*)

Return type

Reference

Parameters

- **snak** (*Snak | Claim | None*)
- **action_if_exists** (*ActionIfExists*)

from_json(*json_data*)

Return type

Reference

Parameters

json_data (*dict[str, Any]*)

get_json()

Return type

dict[str, dict | list]

property hash

property snaks

property snaks_order

class wikibaseintegrator.models.references.**References**

Bases: *BaseModel*

__init__()

Return type

None

add(*reference=None, action_if_exists=ActionIfExists.REPLACE_ALL*)

Return type

References

Parameters

- **reference** (*Reference | Claim | None*)
- **action_if_exists** (*ActionIfExists*)

clear()

Return type

References

from_json(*json_data*)

Return type

References

Parameters

json_data (*list[dict]*)

`get(hash=None)`

Return type

Reference | None

Parameters

hash (*str* | None)

`get_json()`

Return type

list[dict]

property references: list[*Reference*]

`remove(reference_to_remove)`

Return type

bool

Parameters

reference_to_remove (*Claim* / *Reference*)

1.1.3.1.11 wikibaseintegrator.models.senses module

`class wikibaseintegrator.models.senses.Glosses`

Bases: *LanguageValues*

`__init__()`

Return type

None

`add(language_value)`

Add a LanguageValue object to the list

Parameters

language_value (*LanguageValue*) – A LanguageValue object

Return type

LanguageValues

Returns

The current LanguageValues object

`from_json(json_data)`

Create a new LanguageValues object from a JSON/dict object.

Parameters

json_data (dict[str, dict]) – A dict object who use the same format as Wikibase.

Return type

LanguageValues

Returns

The newly created or updated object.

get(*language=None*)

Get a `LanguageValue` object with the specified language. Use the default language in `wbi_config` if none specified.

Parameters

language (`str` | `None`) – The requested language.

Return type

`LanguageValue` | `None`

Returns

The related `LanguageValue` object or `None` if none found.

get_json()

Get a formatted dict who respect the Wikibase format.

Return type

`dict[str, dict]`

Returns

A dict using Wikibase format.

set(*language=None, value=None, action_if_exists=ActionIfExists.REPLACE_ALL*)

Create or update the specified language with the valued passed in arguments.

Parameters

- **language** (`str` | `None`) – The desired language.
- **value** (`str` | `None`) – The desired value of the `LanguageValue` object. Use `None` to delete an existing `LanguageValue` object from the list.
- **action_if_exists** (`ActionIfExists`) – The action if the `LanguageValue` object is already defined. Can be `ActionIfExists.REPLACE_ALL` (default) or `ActionIfExists.KEEP`.

Return type

`LanguageValue` | `None`

Returns

The created or updated `LanguageValue`. `None` if there's no `LanguageValue` object with this language.

property values: `dict[str, LanguageValue]`

A dict of `LanguageValue` with the language as key.

class `wikibaseintegrator.models.senses.Sense`(*sense_id=None, glosses=None, claims=None*)

Bases: `BaseModel`

Parameters

- **sense_id** (`str` | `None`)
- **glosses** (`Glosses` | `None`)
- **claims** (`Claims` | `None`)

__init__(*sense_id=None, glosses=None, claims=None*)

Parameters

- **sense_id** (`str` | `None`)
- **glosses** (`Glosses` | `None`)
- **claims** (`Claims` | `None`)

`from_json(json_data)`

Return type

Sense

Parameters

`json_data` (*dict[str, Any]*)

`get_json()`

Return type

dict[str, str | dict]

`remove()`

Return type

Sense

`class wikibaseintegrator.models.senses.Senses`

Bases: *BaseModel*

`__init__()`

Return type

None

`add(sense, action_if_exists=ActionIfExists.REPLACE_ALL)`

Return type

Senses

Parameters

- `sense` (*Sense*)
- `action_if_exists` (*ActionIfExists*)

`from_json(json_data)`

Return type

Senses

Parameters

`json_data` (*list[dict]*)

`get(id)`

Return type

Sense | None

Parameters

`id` (*str*)

`get_json()`

Return type

list[dict]

1.1.3.1.12 wikibaseintegrator.models.sitelinks module

class wikibaseintegrator.models.sitelinks.Sitelink(*site=None, title=None, badges=None*)

Bases: *BaseModel*

Parameters

- **site** (*str* | *None*)
- **title** (*str* | *None*)
- **badges** (*list[str]* | *None*)

__init__(*site=None, title=None, badges=None*)

Parameters

- **site** (*str* | *None*)
- **title** (*str* | *None*)
- **badges** (*list[str]* | *None*)

class wikibaseintegrator.models.sitelinks.Sitelinks

Bases: *BaseModel*

__init__()

Return type

None

from_json(*json_data*)

Return type

Sitelinks

Parameters

json_data (*dict[str, dict]*)

get(*site=None*)

Return type

Sitelink | *None*

Parameters

site (*str* | *None*)

get_json()

Return type

dict[str, dict]

set(*site, title=None, badges=None*)

Return type

Sitelink

Parameters

- **site** (*str*)
- **title** (*str* | *None*)
- **badges** (*list[str]* | *None*)

1.1.3.1.13 wikibaseintegrator.models.snaks module

```
class wikibaseintegrator.models.snaks.Snak(snaktype=WikibaseSnakType.KNOWN_VALUE,
property_number=None, hash=None, datavalue=None,
datatype=None)
```

Bases: *BaseModel*

Parameters

- **snaktype** (*WikibaseSnakType*)
- **property_number** (*str | None*)
- **hash** (*str | None*)
- **datavalue** (*dict | None*)
- **datatype** (*str | None*)

```
__init__(snaktype=WikibaseSnakType.KNOWN_VALUE, property_number=None, hash=None,
datavalue=None, datatype=None)
```

Parameters

- **snaktype** (*WikibaseSnakType*)
- **property_number** (*str | None*)
- **hash** (*str | None*)
- **datavalue** (*dict | None*)
- **datatype** (*str | None*)

property datatype

property datavalue

from_json(*json_data*)

Return type

Snak

Parameters

json_data (*dict[str, Any]*)

get_json()

Return type

dict[str, str]

property hash

property property_number

property snaktype

```
class wikibaseintegrator.models.snaks.Snaks
```

Bases: *BaseModel*

`__init__()`

Return type

None

`add(snak)`

Return type

Snaks

Parameters

snak (*Snak*)

`from_json(json_data)`

Return type

Snaks

Parameters

json_data (*dict[str, list]*)

`get(property)`

Return type

list[Snak]

Parameters

property (*str | int*)

`get_json()`

Return type

dict[str, list]

1.1.3.2 Module contents

1.2 Submodules

1.2.1 wikibaseintegrator.wbi_backoff module

WikibaseIntegrator implementation of backoff python library.

`wikibaseintegrator.wbi_backoff.wbi_backoff_backoff_hdlr(details)`

`wikibaseintegrator.wbi_backoff.wbi_backoff_check_json_decode_error(e)`

Check if the error message is “Expecting value: line 1 column 1 (char 0)” if not, its a real error and we shouldn’t retry

Return type

bool

`wikibaseintegrator.wbi_backoff.wbi_get_backoff_max_tries()`

1.2.2 wikibaseintegrator.wbi_config module

Config global options Options can be changed at run time. See tests/test_backoff.py for usage example

Options: BACKOFF_MAX_TRIES: maximum number of times to retry failed request to wikidata endpoint.

Default: None (retry indefinitely) To disable retry, set value to 1

BACKOFF_MAX_VALUE: maximum number of seconds to wait before retrying. wait time will increase to this number

Default: 3600 (one hour)

USER_AGENT: Complementary user agent string used for http requests. Both to Wikibase api, query service and others.

See: https://foundation.wikimedia.org/wiki/Policy:User-Agent_policy

1.2.3 wikibaseintegrator.wbi_enums module

class wikibaseintegrator.wbi_enums.ActionIfExists(*values)

Bases: Enum

Action to take if a statement with a property already exists on the entity.

APPEND_OR_REPLACE: Add the new element to the property if it does not exist, otherwise replace the existing element. FORCE_APPEND: Forces the addition of the new element to the property, even if it already exists. KEEP: Does nothing if the property already has elements stated. REPLACE_ALL: Replace all elements with the same property number. MERGE_REFS_OR_APPEND: Add the new element to the property if it does not exist, otherwise merge the references, adding the references for the new claim as a new reference block.

APPEND_OR_REPLACE = 1

FORCE_APPEND = 2

KEEP = 3

MERGE_REFS_OR_APPEND = 5

REPLACE_ALL = 4

class wikibaseintegrator.wbi_enums.EntityField(*values)

Bases: Enum

The different fields of an entity. Used to specify which field to update when updating an entity.

ALIASES = 2

CLAIMS = 1

DESCRIPTIONS = 3

FORMS = 9

LABELS = 4

LANGUAGE = 8

LEMMAS = 6

LEXICAL_CATEGORY = 7

SENSES = 10

SITELINKS = 5

class wikibaseintegrator.wbi_enums.WikibaseDatatype(*values)

Bases: Enum

COMMONSMEDIA = 'commonsMedia'

```
EDTF = 'edtf'
ENTITYSCHEMA = 'entity-schema'
EXTERNALID = 'external-id'
FORM = 'wikibase-form'
GEOSHAPE = 'geo-shape'
GLOBECOORDINATE = 'globe-coordinate'
ITEM = 'wikibase-item'
LEXEME = 'wikibase-lexeme'
LOCALMEDIA = 'localMedia'
MATH = 'math'
MONOLINGUALTEXT = 'monolingualtext'
MUSICALNOTATION = 'musical-notation'
PROPERTY = 'wikibase-property'
QUANTITY = 'quantity'
SENSE = 'wikibase-sense'
STRING = 'string'
TABULARDATA = 'tabular-data'
TIME = 'time'
URL = 'url'
```

```
class wikibaseintegrator.wbi_enums.WikibaseRank(*values)
```

```
    Bases: Enum
```

```
    DEPRECATED = 'deprecated'
```

```
    NORMAL = 'normal'
```

```
    PREFERRED = 'preferred'
```

```
class wikibaseintegrator.wbi_enums.WikibaseSnakType(*values)
```

```
    Bases: Enum
```

```
    The snak type of the Wikibase data snak, three values possible, depending if the value is a known (value), not
    existent (novalue) or unknown (somevalue). See Wikibase documentation.
```

```
    KNOWN_VALUE = 'value'
```

```
    NO_VALUE = 'novalue'
```

```
    UNKNOWN_VALUE = 'somevalue'
```

```
class wikibaseintegrator.wbi_enums.WikibaseTimePrecision(*values)
```

```
    Bases: Enum
```

```

BILLION_YEARS = 0
CENTURY = 7
DAY = 11
DECADE = 8
HUNDRED_MILLION_YEARS = 1
HUNDRED_THOUSAND_YEARS = 4
MILLENNIUM = 6
MILLION_YEARS = 3
MONTH = 10
TEN_MILLION_YEARS = 2
TEN_THOUSAND_YEARS = 5
YEAR = 9

```

1.2.4 wikibaseintegrator.wbi_exceptions module

exception `wikibaseintegrator.wbi_exceptions.MWApiError`(*error_dict*)

Bases: `Exception`

Base class for MediaWiki API error handling

Parameters

error_dict (*dict[str, Any]*)

__init__(*error_dict*)

Parameters

error_dict (*dict[str, Any]*)

add_note()

`Exception.add_note(note)` – add a note to the exception

args

code: `str`

error_dict: `dict[str, Any]`

property get_conflicting_entity_ids: `list[str]`

Compute the list of conflicting entities from the error messages.

Returns

A list of conflicting entities or an empty list

property get_languages: `list[str]`

Compute a list of language identifiers from the error messages. Indicating the language which triggered the error.

Returns

A list of language identifiers or an empty list

info: str

messages: list[dict[str, Any]]

messages_names: list[str]

with_traceback()

Exception.with_traceback(tb) – set self.__traceback__ to tb and return self.

exception wikibaseintegrator.wbi_exceptions.MaxRetriesReachedException

Bases: Exception

__init__(*args, **kwargs)

add_note()

Exception.add_note(note) – add a note to the exception

args

with_traceback()

Exception.with_traceback(tb) – set self.__traceback__ to tb and return self.

exception wikibaseintegrator.wbi_exceptions.MissingEntityException

Bases: Exception

__init__(*args, **kwargs)

add_note()

Exception.add_note(note) – add a note to the exception

args

with_traceback()

Exception.with_traceback(tb) – set self.__traceback__ to tb and return self.

exception wikibaseintegrator.wbi_exceptions.ModificationFailed(*error_dict*)

Bases: *MWApiError*

When the API return a ‘modification-failed’ error

Parameters

error_dict (*dict*[str, Any])

__init__(*error_dict*)

Parameters

error_dict (*dict*[str, Any])

add_note()

Exception.add_note(note) – add a note to the exception

args

code: str

error_dict: dict[str, Any]

property get_conflicting_entity_ids: list[str]

Compute the list of conflicting entities from the error messages.

Returns

A list of conflicting entities or an empty list

property get_languages: list[str]

Compute a list of language identifiers from the error messages. Indicating the language which triggered the error.

Returns

A list of language identifiers or an empty list

info: str

messages: list[dict[str, Any]]

messages_names: list[str]

with_traceback()

Exception.with_traceback(tb) – set self.__traceback__ to tb and return self.

exception wikibaseintegrator.wbi_exceptions.NonExistentEntityError(error_dict)

Bases: *MWApiError*

Parameters

error_dict (*dict[str, Any]*)

__init__(*error_dict*)

Parameters

error_dict (*dict[str, Any]*)

add_note()

Exception.add_note(note) – add a note to the exception

args

code: str

error_dict: dict[str, Any]

property get_conflicting_entity_ids: list[str]

Compute the list of conflicting entities from the error messages.

Returns

A list of conflicting entities or an empty list

property get_languages: list[str]

Compute a list of language identifiers from the error messages. Indicating the language which triggered the error.

Returns

A list of language identifiers or an empty list

info: str

messages: list[dict[str, Any]]

messages_names: list[str]

with_traceback()

Exception.with_traceback(tb) – set self.__traceback__ to tb and return self.

exception wikibaseintegrator.wbi_exceptions.**SaveFailed**(*error_dict*)

Bases: *MWApiError*

When the API return a ‘save-failed’ error

Parameters

error_dict (*dict[str, Any]*)

__init__(*error_dict*)

Parameters

error_dict (*dict[str, Any]*)

add_note()

Exception.add_note(note) – add a note to the exception

args

code: **str**

error_dict: **dict[str, Any]**

property **get_conflicting_entity_ids:** **list[str]**

Compute the list of conflicting entities from the error messages.

Returns

A list of conflicting entities or an empty list

property **get_languages:** **list[str]**

Compute a list of language identifiers from the error messages. Indicating the language which triggered the error.

Returns

A list of language identifiers or an empty list

info: **str**

messages: **list[dict[str, Any]]**

messages_names: **list[str]**

with_traceback()

Exception.with_traceback(tb) – set self.__traceback__ to tb and return self.

exception wikibaseintegrator.wbi_exceptions.**SearchError**

Bases: **Exception**

__init__(*args, **kwargs)

add_note()

Exception.add_note(note) – add a note to the exception

args

with_traceback()

Exception.with_traceback(tb) – set self.__traceback__ to tb and return self.

1.2.5 wikibaseintegrator.wbi_fastrun module

```
class wikibaseintegrator.wbi_fastrun.FastRunContainer(base_data_type, mediawiki_api_url=None,
                                                    sparql_endpoint_url=None,
                                                    wikibase_url=None, base_filter=None,
                                                    use_refs=False, case_insensitive=False)
```

Bases: object

Parameters

- **base_data_type** (*type* [BaseDataType])
- **mediawiki_api_url** (*str* | *None*)
- **sparql_endpoint_url** (*str* | *None*)
- **wikibase_url** (*str* | *None*)
- **base_filter** (*list* [BaseDataType | list [BaseDataType]] | *None*)
- **use_refs** (*bool*)
- **case_insensitive** (*bool*)

```
__init__(base_data_type, mediawiki_api_url=None, sparql_endpoint_url=None, wikibase_url=None,
         base_filter=None, use_refs=False, case_insensitive=False)
```

Parameters

- **base_data_type** (*type* [BaseDataType])
- **mediawiki_api_url** (*str* | *None*)
- **sparql_endpoint_url** (*str* | *None*)
- **wikibase_url** (*str* | *None*)
- **base_filter** (*list* [BaseDataType | list [BaseDataType]] | *None*)
- **use_refs** (*bool*)
- **case_insensitive** (*bool*)

```
check_language_data(qid, lang_data, lang, lang_data_type,
                    action_if_exists=ActionIfExists.APPEND_OR_REPLACE)
```

Method to check if certain language data exists as a label, description or aliases :type qid: str :param qid: Wikibase item id :type lang_data: list :param lang_data: list of string values to check :type lang: str :param lang: language code :type lang_data_type: str :param lang_data_type: What kind of data is it? 'label', 'description' or 'aliases'? :type action_if_exists: ActionIfExists :param action_if_exists: If aliases already exist, APPEND_OR_REPLACE or REPLACE_ALL

Return type

bool

Returns

boolean

Parameters

- **qid** (*str*)
- **lang_data** (*list*)
- **lang** (*str*)
- **lang_data_type** (*str*)

- **action_if_exists** (`ActionIfExists`)

clear()

convenience function to empty this fastrun container

Return type

None

format_query_results(*r*, *prop_nr*)

r is the results of the sparql query in `_query_data` and is modified in place *prop_nr* is needed to get the property datatype to determine how to format the value

Return type

None

Parameters

- **r** (*list*)
- **prop_nr** (*str*)

r is a list of dicts. The keys are:

sid: statement ID item: the subject. the item this statement is on v: the object. The value for this statement unit: property unit pq: qualifier property qual: qualifier value qunit: qualifier unit ref: reference ID pr: reference property rval: reference value

get_all_data()

Return type

dict[str, dict]

get_item(*claims*, *cqid=None*)

Parameters

- **claims** (`list[Claim]` | `Claims` | `Claim`) – A list of claims the entity should have
- **cqid** (`str` | `None`)

Return type

`str` | `None`

Returns

An entity ID, None if there is more than one.

get_items(*claims*, *cqid=None*)

Get items ID from a SPARQL endpoint

Parameters

- **claims** (`list[Claim]` | `Claims` | `Claim`) – A list of claims the entities should have
- **cqid** (`str` | `None`)

Return type

`set[str]` | `None`

Returns

a list of entity ID or None

Exception

if there is more than one claim

get_language_data(*qid*, *lang*, *lang_data_type*)

get language data for specified qid

Parameters

- **qid** (str) – Wikibase item id
- **lang** (str) – language code
- **lang_data_type** (str) – ‘label’, ‘description’ or ‘aliases’

Return type

list[str]

Returns

list of strings

If nothing is found:

If lang_data_type == label: returns [“”]
 If lang_data_type == description: returns [“”]
 If lang_data_type == aliases: returns []

get_prop_datatype(*prop_nr*)

Return type

str | None

Parameters

prop_nr (str)

init_language_data(*lang*, *lang_data_type*)

Initialize language data store

Parameters

- **lang** (str) – language code
- **lang_data_type** (str) – ‘label’, ‘description’ or ‘aliases’

Return type

None

Returns

None

reconstruct_statements(*qid*)

Return type

list[*BaseDataType*]

Parameters

qid (str)

update_frc_from_query(*r*, *prop_nr*)

Return type

None

Parameters

- **r** (list)
- **prop_nr** (str)

write_required(*data*, *action_if_exists*=*ActionIfExists.REPLACE_ALL*, *cqid*=*None*)

Check if a write is required

Parameters

- **data** (*list*[*Claim*])
- **action_if_exists** (*ActionIfExists*)
- **cqid** (*str* | *None*)

Return type

bool

Returns

Return True if the write is required

wikibaseintegrator.wbi_fastrun.get_fastrun_container(*base_filter*=*None*, *use_refs*=*False*,
case_insensitive=*False*)

Return type

FastRunContainer

Parameters

- **base_filter** (*list*[*BaseDataType* | *list*[*BaseDataType*]] | *None*)
- **use_refs** (*bool*)
- **case_insensitive** (*bool*)

1.2.6 wikibaseintegrator.wbi_helpers module

Multiple functions or classes that can be used to interact with the Wikibase instance.

class `wikibaseintegrator.wbi_helpers.BColors`

Bases: `object`

Default colors for pretty outputs.

BOLD = `'\x1b[1m'`

ENDC = `'\x1b[0m'`

FAIL = `'\x1b[91m'`

HEADER = `'\x1b[95m'`

OKBLUE = `'\x1b[94m'`

OKCYAN = `'\x1b[96m'`

OKGREEN = `'\x1b[92m'`

UNDERLINE = `'\x1b[4m'`

WARNING = `'\x1b[93m'`

`__init__()`

wikibaseintegrator.wbi_helpers.**delete_page**(*title=None, pageid=None, reason=None, deletetalk=False, watchlist='preferences', watchlistexpiry=None, login=None, **kwargs*)

Delete a page

Parameters

- **title** (str | None) – Title of the page to delete. Cannot be used together with pageid.
- **pageid** (int | None) – Page ID of the page to delete. Cannot be used together with title.
- **reason** (str | None) – Reason for the deletion. If not set, an automatically generated reason will be used.
- **deletetalk** (bool) – Delete the talk page, if it exists.
- **watchlist** (str) – Unconditionally add or remove the page from the current user’s watchlist, use preferences (ignored for bot users) or do not change watch. One of the following values: nochange, preferences, unwatch, watch
- **watchlistexpiry** (str | None) – Watchlist expiry timestamp. Omit this parameter entirely to leave the current expiry unchanged.
- **login** (_Login | None) – A wbi_login.Login instance
- **kwargs** (Any)

Return type

dict

Returns

wikibaseintegrator.wbi_helpers.**download_entity_ttl**(*entity, wikibase_url=None, user_agent=None*)

Downloads the TTL (Terse RDF Triple Language) content of a specific entity from a Wikibase instance.

Args: - **entity** (str): The identifier of the entity to download the TTL content for. - **wikibase_url** (str | None): The base URL of the Wikibase instance. If None, the default URL from the configuration

will be used.

- **user_agent** (str | None): **The user agent string to be used in the HTTP request headers. If None, the default user agent from the configuration will be used if available.**

Returns: - str: The TTL content of the requested entity.

Raises: - HTTPError: If the HTTP request to retrieve the TTL content fails (status code other than 2xx).

Note: The function relies on a configuration setup (presumably a ‘config’ dictionary) containing at least the keys ‘WIKIBASE_URL’ and ‘USER_AGENT’ for the default Wikibase URL and user agent respectively.

Return type

str

Parameters

- **entity** (str)
- **wikibase_url** (str | None)
- **user_agent** (str | None)

```
wikibaseintegrator.wbi_helpers.edit_entity(data, id=None, type=None, baserevid=None,
                                           summary=None, clear=False, is_bot=False, tags=None,
                                           site=None, title=None, **kwargs)
```

Creates a single new Wikibase entity and modifies it with serialised information.

Parameters

- **data** (dict) – The serialized object that is used as the data source. A newly created entity will be assigned an ‘id’.
- **id** (str | None) – The identifier for the entity, including the prefix. Use either id or site and title together.
- **type** (str | None) – Set this to the type of the entity to be created. One of the following values: form, item, lexeme, property, sense
- **baserevid** (int | None) – The numeric identifier for the revision to base the modification on. This is used for detecting conflicts during save.
- **summary** (str | None) – Summary for the edit. Will be prepended by an automatically generated comment.
- **clear** (bool) – If set, the complete entity is emptied before proceeding. The entity will not be saved before it is filled with the “data”, possibly with parts excluded.
- **is_bot** (bool) – Mark this edit as bot.
- **login** – A login instance
- **tags** (list[str] | None) – Change tags to apply to the revision.
- **site** (str | None) – An identifier for the site on which the page resides. Use together with title to make a complete sitelink.
- **title** (str | None) – Title of the page to associate. Use together with site to make a complete sitelink.
- **kwargs** (Any) – More arguments for Python requests

Return type

dict

Returns

The answer from the Wikibase API

```
wikibaseintegrator.wbi_helpers.execute_sparql_query(query, prefix=None, endpoint=None,
                                                    user_agent=None, max_retries=1000,
                                                    retry_after=60)
```

Static method which can be used to execute any SPARQL query

Parameters

- **prefix** (str | None) – The URI prefixes required for an endpoint, default is the Wikidata specific prefixes
- **query** (str) – The actual SPARQL query string
- **endpoint** (str | None) – The URL string for the SPARQL endpoint. Default is the URL for the Wikidata SPARQL endpoint
- **user_agent** (str | None) – Set a user agent string for the HTTP header to let the Query Service know who you are.
- **max_retries** (int) – The number time this function should retry in case of header reports.

- **retry_after** (int) – the number of seconds should wait upon receiving either an error code or the Query Service is not reachable.

Return type

dict[str, dict]

Returns

The results of the query are returned in JSON format

wikibaseintegrator.wbi_helpers.**format2wbi**(*entitytype*, *json_raw*, *allow_anonymous=True*, *wikibase_url=None*, ***kwargs*)

Return type*BaseEntity***Parameters**

- **entitytype** (*str*)
- **json_raw** (*str*)
- **allow_anonymous** (*bool*)
- **wikibase_url** (*str* | *None*)

wikibaseintegrator.wbi_helpers.**format_amount**(*amount*)

A formatting function mostly used for Quantity datatype. :type amount: int | str | float :param amount: A int, float or str you want to pass to Quantity value.

Return type

str

Returns

A correctly formatted string amount by Wikibase standard.

Parameters**amount** (*int* | *str* | *float*)

wikibaseintegrator.wbi_helpers.**fulltext_search**(*search*, *max_results=50*, *allow_anonymous=True*, ***kwargs*)

Perform a fulltext search on the mediawiki instance. It's an exception to the "only wikibase related function" rule! WikibaseIntegrator is focused on wikibase-only functions to avoid spreading out and covering all functions of MediaWiki.

Parameters

- **search** (*str*) – Search for page titles or content matching this value. You can use the search string to invoke special search features, depending on what the wiki's search backend implements.
- **max_results** (*int*) – How many total pages to return. The value must be between 1 and 500.
- **allow_anonymous** (*bool*) – Allow anonymous interaction with the MediaWiki API. 'True' by default.
- **kwargs** (*Any*) – Extra parameters for mediawiki_api_call_helper()

Return type

list[dict[str, Any]]

Returns

wikibaseintegrator.wbi_helpers.generate_entity_instances(entities, allow_anonymous=True, **kwargs)

A method which allows for retrieval of a list of Wikidata entities. The method generates a list of tuples where the first value in the tuple is the entity's ID, whereas the second is the new instance of a subclass of BaseEntity containing all the data of the entity. This is most useful for mass retrieval of entities.

Parameters

- **entities** (str | list[str]) – A list of IDs. Item, Property or Lexeme.
- **allow_anonymous** (bool) – Allow anonymous edit to the MediaWiki API. Disabled by default.
- **kwargs** (Any)

Return type

list[tuple[str, BaseEntity]]

Returns

A list of tuples, first value in the tuple is the entity's ID, second value is the instance of a subclass of BaseEntity with the corresponding entity data.

wikibaseintegrator.wbi_helpers.get_user_agent(user_agent=None)

Return a user agent string suitable for interacting with the Wikibase instance.

Parameters

user_agent (str | None) – An optional user-agent. If not provided, will generate a default user-agent.

Return type

str

Returns

A correctly formatted user agent.

wikibaseintegrator.wbi_helpers.lexeme_add_form(lexeme_id, data, baserevid=None, tags=None, is_bot=False, **kwargs)

Adds Form to Lexeme

Parameters

- **lexeme_id** – ID of the Lexeme, e.g. L10
- **data** – The serialized object that is used as the data source.
- **baserevid** (int | None) – Base Revision ID of the Lexeme, if edit conflict check is wanted.
- **tags** (list[str] | None) – Change tags to apply to the revision.
- **is_bot** (bool) – Mark this edit as bot.
- **kwargs** (Any)

Return type

dict

Returns

wikibaseintegrator.wbi_helpers.lexeme_add_sense(lexeme_id, data, baserevid=None, tags=None, is_bot=False, **kwargs)

Adds a Sense to a Lexeme

Parameters

- **lexeme_id** – ID of the Lexeme, e.g. L10
- **data** – JSON-encoded data for the Sense, i.e. its glosses
- **baserevid** (int | None) – Base Revision ID of the Lexeme, if edit conflict check is wanted.
- **tags** (list[str] | None) – Change tags to apply to the revision.
- **is_bot** (bool) – Mark this edit as bot.
- **kwargs** (Any)

Return type

dict

Returns

wikibaseintegrator.wbi_helpers.**lexeme_edit_form**(*form_id*, *data*, *baserevid=None*, *tags=None*, *is_bot=False*, ***kwargs*)

Edits representations and grammatical features of a Form

Parameters

- **form_id** (str) – ID of the Form or the concept URI, e.g. L10-F2
- **data** – The serialized object that is used as the data source.
- **baserevid** (int | None) – Base Revision ID of the Lexeme, if edit conflict check is wanted.
- **tags** (list[str] | None) – Change tags to apply to the revision.
- **is_bot** (bool) – Mark this edit as bot.
- **kwargs** (Any)

Return type

dict

Returns

wikibaseintegrator.wbi_helpers.**lexeme_edit_sense**(*sense_id*, *data*, *baserevid=None*, *tags=None*, *is_bot=False*, ***kwargs*)

Edits glosses of a Sense

Parameters

- **sense_id** (str) – ID of the Sense or the concept URI, e.g. L10-S2
- **data** – The serialized object that is used as the data source.
- **baserevid** (int | None) – Base Revision ID of the Lexeme, if edit conflict check is wanted.
- **tags** (list[str] | None) – Change tags to apply to the revision.
- **is_bot** (bool) – Mark this edit as bot.
- **kwargs** (Any)

Return type

dict

Returns

wikibaseintegrator.wbi_helpers.**lexeme_remove_form**(*form_id*, *baserevid=None*, *tags=None*, *is_bot=False*, ***kwargs*)

Removes Form from Lexeme

Parameters

- **form_id** (str) – ID of the Form or the concept URI, e.g. L10-F2
- **baserevid** (int | None) – Base Revision ID of the Lexeme, if edit conflict check is wanted.
- **tags** (list[str] | None) – Change tags to apply to the revision.
- **is_bot** (bool) – Mark this edit as bot.
- **kwargs** (Any)

Return type

dict

Returns

wikibaseintegrator.wbi_helpers.lexeme_remove_sense(*sense_id*, *baserevid=None*, *tags=None*, *is_bot=False*, ***kwargs*)

Adds Form to Lexeme

Parameters

- **sense_id** (str) – ID of the Sense, e.g. L10-S20
- **baserevid** (int | None) – Base Revision ID of the Lexeme, if edit conflict check is wanted.
- **tags** (list[str] | None) – Change tags to apply to the revision.
- **is_bot** (bool) – Mark this edit as bot.
- **kwargs** (Any)

Return type

dict

Returns

wikibaseintegrator.wbi_helpers.mediawiki_api_call(*method*, *mediawiki_api_url=None*, *session=None*, *max_retries=100*, *retry_after=60*, ***kwargs*)

A function to call the MediaWiki API.

Parameters

- **method** (str) – ‘GET’ or ‘POST’
- **mediawiki_api_url** (str | None)
- **session** (Session | None) – If a session is passed, it will be used. Otherwise, a new requests session is created
- **max_retries** (int) – If api request fails due to rate limiting, maxlag, or readonly mode, retry up to *max_retries* times
- **retry_after** (int) – Number of seconds to wait before retrying request (see *max_retries*)
- **kwargs** (Any) – Any additional keyword arguments to pass to requests.request

Return type

dict

Returns

The data returned by the API as a dictionary

```
wikibaseintegrator.wbi_helpers.mediawiki_api_call_helper(data, login=None,
                                                         mediawiki_api_url=None,
                                                         user_agent=None,
                                                         allow_anonymous=False,
                                                         max_retries=1000, retry_after=60,
                                                         maxlag=5, is_bot=False, **kwargs)
```

A simplified function to call the MediaWiki API. Pass the data, as a dictionary, related to the action you want to call, all commons options will be automatically managed.

Parameters

- **data** (dict[str, Any]) – A dictionary containing the JSON data to send to the API
- **login** (_Login | None) – A wbi_login._Login instance
- **mediawiki_api_url** (str | None) – The URL to the MediaWiki API (default Wikidata)
- **user_agent** (str | None) – The user agent (Recommended for Wikimedia Foundation instances)
- **allow_anonymous** (bool) – Allow an unidentified edit to the MediaWiki API (default False)
- **max_retries** (int) – The maximum number of retries
- **retry_after** (int) – The timeout between each retry
- **maxlag** (int) – If applicable, the maximum lag allowed for the replication (An lower number reduce the load on the replicated database)
- **is_bot** (bool) – Flag the edit as a bot
- **kwargs** (Any) – Any additional keyword arguments to pass to requests.request

Return type

dict

Returns

The data returned by the API as a dictionary

```
wikibaseintegrator.wbi_helpers.merge_items(from_id, to_id, login=None, ignore_conflicts=None,
                                             is_bot=False, **kwargs)
```

A static method to merge two items

Parameters

- **from_id** (str) – The ID to merge from. This parameter is required.
- **to_id** (str) – The ID to merge to. This parameter is required.
- **login** (_Login | None) – A wbi_login.Login instance
- **ignore_conflicts** (list[str] | None) – List of elements of the item to ignore conflicts for. Can only contain values of “description”, “sitelink” and “statement”
- **is_bot** (bool) – Mark this edit as bot.
- **kwargs** (Any)

Return type

dict

```
wikibaseintegrator.wbi_helpers.merge_lexemes(source, target, login=None, summary=None,
                                              is_bot=False, **kwargs)
```

A static method to merge two lexemes

Parameters

- **source** (str) – The ID to merge from. This parameter is required.
- **target** (str) – The ID to merge to. This parameter is required.
- **login** (_Login | None) – A wbi_login.Login instance
- **summary** (str | None) – Summary for the edit.
- **is_bot** (bool) – Mark this edit as bot.
- **kwargs** (Any)

Return type

dict

wikibaseintegrator.wbi_helpers.remove_claims(*claim_id*, *summary=None*, *baserevid=None*, *is_bot=False*, ***kwargs*)

Delete a claim from an entity

Parameters

- **claim_id** (str) – One GUID or several (pipe-separated) GUIDs identifying the claims to be removed. All claims must belong to the same entity.
- **summary** (str | None) – Summary for the edit. Will be prepended by an automatically generated comment.
- **baserevid** (int | None) – The numeric identifier for the revision to base the modification on. This is used for detecting conflicts during save.
- **is_bot** (bool) – Mark this edit as bot.
- **kwargs** (Any)

Return type

dict

wikibaseintegrator.wbi_helpers.search_entities(*search_string*, *language=None*, *strict_language=False*, *search_type='item'*, *max_results=50*, *dict_result=False*, *allow_anonymous=True*, ***kwargs*)

Performs a search for entities in the Wikibase instance using labels and aliases. You can have more information on the parameters in the MediaWiki API help (<https://www.wikidata.org/w/api.php?action=help&modules=wbsearchentities>)

Parameters

- **search_string** (str) – A string which should be searched for in the Wikibase instance (labels and aliases)
- **language** (str | None) – The language in which to perform the search. This only affects how entities are selected. Default is 'en' from wbi_config. You can see the list of languages for Wikidata at https://www.wikidata.org/wiki/Help:Wikimedia_language_codes/lists/all (Use the WMF code)
- **strict_language** (bool) – Whether to disable language fallback. Default is 'False'.
- **search_type** (str) – Search for this type of entity. One of the following values: form, item, lexeme, property, sense, mediainfo
- **max_results** (int) – The maximum number of search results returned. The value must be between 0 and 50. Default is 50
- **dict_result** (bool) – Return the results as a detailed dictionary instead of a list of IDs.

- **allow_anonymous** (bool) – Allow anonymous interaction with the MediaWiki API. ‘True’ by default.
- **kwargs** (Any)

Return type

list[dict[str, Any]]

1.2.7 wikibaseintegrator.wbi_login module

Login class for Wikidata. Takes authentication parameters and stores the session cookies and edit tokens.

```
class wikibaseintegrator.wbi_login.Clientlogin(user=None, password=None,
                                              mediawiki_api_url=None, token_renew_period=1800,
                                              user_agent=None, **kwargs)
```

Bases: `_Login`

Parameters

- **user** (str | None)
- **password** (str | None)
- **mediawiki_api_url** (str | None)
- **token_renew_period** (int)
- **user_agent** (str | None)
- **kwargs** (Any)

```
__init__(user=None, password=None, mediawiki_api_url=None, token_renew_period=1800,
         user_agent=None, **kwargs)
```

This class is used to log in with a user account

Parameters

- **user** (str | None) – The username
- **password** (str | None) – The password
- **mediawiki_api_url** (str | None) – The URL to the MediaWiki API (default Wikidata)
- **token_renew_period** (int) – Seconds after which a new token should be requested from the Wikidata server
- **user_agent** (str | None) – UA string to use for API requests.
- **kwargs** (Any) – Additional parameters to pass to the `requests.sessions.Session.post` method, such as headers or proxies.

generate_edit_credentials()

Request an edit token and update the `cookie_jar` in order to add the session cookie

Return type

RequestsCookieJar

Returns

Returns a json with all relevant cookies, aka cookie jar

get_edit_cookie()

Can be called in order to retrieve the cookies from an instance of `wbi_login.Login`

Return type

RequestsCookieJar

Returns

Returns a json with all relevant cookies, aka cookie jar

get_edit_token()

Can be called in order to retrieve the edit token from an instance of `wbi_login.Login`

Return type

`str` | `None`

Returns

returns the edit token

get_session()

Returns the `requests.Session` object used for the login.

Return type

`Session`

Returns

Object of type `requests.Session()`

class `wikibaseintegrator.wbi_login.Login`(*user=None, password=None, mediawiki_api_url=None, token_renew_period=1800, user_agent=None, **kwargs*)

Bases: `_Login`

Parameters

- **user** (*str* | *None*)
- **password** (*str* | *None*)
- **mediawiki_api_url** (*str* | *None*)
- **token_renew_period** (*int*)
- **user_agent** (*str* | *None*)
- **kwargs** (*Any*)

__init__(*user=None, password=None, mediawiki_api_url=None, token_renew_period=1800, user_agent=None, **kwargs*)

This class is used to log in with a bot password

Parameters

- **user** (*str* | *None*) – The user of the bot password (format `<User>@<BotUser>`)
- **password** (*str* | *None*) – The password generated by the MediaWiki
- **mediawiki_api_url** (*str* | *None*) – The URL to the MediaWiki API (default Wikidata)
- **token_renew_period** (*int*) – Seconds after which a new token should be requested from the Wikidata server
- **user_agent** (*str* | *None*) – UA string to use for API requests.
- **kwargs** (*Any*) – Additional parameters to pass to the `requests.sessions.Session.post` method, such as headers or proxies.

generate_edit_credentials()

Request an edit token and update the `cookie_jar` in order to add the session cookie

Return type

`RequestsCookieJar`

Returns

Returns a json with all relevant cookies, aka cookie jar

get_edit_cookie()

Can be called in order to retrieve the cookies from an instance of wbi_login.Login

Return type

RequestsCookieJar

Returns

Returns a json with all relevant cookies, aka cookie jar

get_edit_token()

Can be called in order to retrieve the edit token from an instance of wbi_login.Login

Return type

str | None

Returns

returns the edit token

get_session()

Returns the requests.Session object used for the login.

Return type

Session

Returns

Object of type requests.Session()

exception wikibaseintegrator.wbi_login.LoginError

Bases: Exception

Raised when there is an issue with the login

__init__(*args, **kwargs)

add_note()

Exception.add_note(note) – add a note to the exception

args**with_traceback()**

Exception.with_traceback(tb) – set self.__traceback__ to tb and return self.

class wikibaseintegrator.wbi_login.OAuth1(*consumer_token=None, consumer_secret=None, access_token=None, access_secret=None, callback_url='oob', mediawiki_api_url=None, mediawiki_index_url=None, token_renew_period=1800, user_agent=None*)

Bases: _Login

Parameters

- **consumer_token** (*str | None*)
- **consumer_secret** (*str | None*)
- **access_token** (*str | None*)
- **access_secret** (*str | None*)
- **callback_url** (*str*)

- **mediawiki_api_url** (*str* | *None*)
- **mediawiki_index_url** (*str* | *None*)
- **token_renew_period** (*int*)
- **user_agent** (*str* | *None*)

__init__ (*consumer_token=None, consumer_secret=None, access_token=None, access_secret=None, callback_url='oob', mediawiki_api_url=None, mediawiki_index_url=None, token_renew_period=1800, user_agent=None*)

This class is used to interact with the OAuth1 API.

Parameters

- **consumer_token** (*str* | *None*) – The consumer token
- **consumer_secret** (*str* | *None*) – The consumer secret
- **access_token** (*str* | *None*) – The access token (optional)
- **access_secret** (*str* | *None*) – The access secret (optional)
- **callback_url** (*str*) – The callback URL used to finalize the handshake
- **mediawiki_api_url** (*str* | *None*) – The URL to the MediaWiki API (default Wikidata)
- **mediawiki_index_url** (*str* | *None*) – The URL to the MediaWiki index (default Wikidata)
- **token_renew_period** (*int*) – Seconds after which a new token should be requested from the Wikidata server
- **user_agent** (*str* | *None*) – UA string to use for API requests.

continue_oauth (*oauth_callback_data=None*)

Continuation of OAuth procedure. Method must be explicitly called in order to complete OAuth. This allows external entities, e.g. websites, to provide tokens through callback URLs directly.

Parameters

- **oauth_callback_data** (*str* | *None*) – The callback URL received to a Web app

Return type

None

Returns

edit_token: *str* | *None*

generate_edit_credentials()

Request an edit token and update the `cookie_jar` in order to add the session cookie

Return type

`RequestsCookieJar`

Returns

Returns a json with all relevant cookies, aka cookie jar

get_edit_cookie()

Can be called in order to retrieve the cookies from an instance of `wbi_login.Login`

Return type

`RequestsCookieJar`

Returns

Returns a json with all relevant cookies, aka cookie jar

get_edit_token()

Can be called in order to retrieve the edit token from an instance of wbi_login.Login

Return type

str | None

Returns

returns the edit token

get_session()

Returns the requests.Session object used for the login.

Return type

Session

Returns

Object of type requests.Session()

instantiation_time: float

mediawiki_api_url: str

session: Session

token_renew_period: int

```
class wikibaseintegrator.wbi_login.OAuth2(consumer_token=None, consumer_secret=None,
                                          mediawiki_api_url=None, mediawiki_rest_url=None,
                                          token_renew_period=1800, user_agent=None)
```

Bases: `_Login`

Parameters

- **consumer_token** (str | None)
- **consumer_secret** (str | None)
- **mediawiki_api_url** (str | None)
- **mediawiki_rest_url** (str | None)
- **token_renew_period** (int)
- **user_agent** (str | None)

```
__init__(consumer_token=None, consumer_secret=None, mediawiki_api_url=None,
         mediawiki_rest_url=None, token_renew_period=1800, user_agent=None)
```

This class is used to interact with the OAuth2 API.

Parameters

- **consumer_token** (str | None) – The consumer token
- **consumer_secret** (str | None) – The consumer secret
- **mediawiki_api_url** (str | None) – The URL to the MediaWiki API (default Wikidata)
- **mediawiki_rest_url** (str | None) – The URL to the MediaWiki REST API (default Wikidata)
- **token_renew_period** (int) – Seconds after which a new token should be requested from the Wikidata server

- **user_agent** (str | None) – UA string to use for API requests.

edit_token: str | None

generate_edit_credentials()

Request an edit token and update the cookie_jar in order to add the session cookie

Return type

RequestsCookieJar

Returns

Returns a json with all relevant cookies, aka cookie jar

get_edit_cookie()

Can be called in order to retrieve the cookies from an instance of wbi_login.Login

Return type

RequestsCookieJar

Returns

Returns a json with all relevant cookies, aka cookie jar

get_edit_token()

Can be called in order to retrieve the edit token from an instance of wbi_login.Login

Return type

str | None

Returns

returns the edit token

get_session()

Returns the requests.Session object used for the login.

Return type

Session

Returns

Object of type requests.Session()

instantiation_time: float

mediawiki_api_url: str

session: Session

token_renew_period: int

1.2.8 wikibaseintegrator.wikibaseintegrator module

Main class of the Library.

class wikibaseintegrator.wikibaseintegrator.**WikibaseIntegrator**(*is_bot=False, login=None*)

Bases: object

Parameters

- **is_bot** (*bool*)
- **login** (*_Login | None*)

`__init__(is_bot=False, login=None)`

This function initializes a WikibaseIntegrator instance to quickly access different entity type instances.

Parameters

- **is_bot** (bool) – declare if the bot flag must be set when you interact with the MediaWiki API.
- **login** (_Login | None) – a wbi_login instance needed when you try to access a restricted MediaWiki instance.

1.3 Module contents

1.3.1 WikibaseIntegrator Library

WikibaseIntegrator is a Wikibase library, written in Python, for human beings. Basic read usage:

```
>>> from wikibaseintegrator import WikibaseIntegrator
>>> from wikibaseintegrator.wbi_config import config
>>> config['USER_AGENT'] = 'Item Get Notebook'
>>> wbi = WikibaseIntegrator()
>>> q42 = wbi.item.get('Q42')
>>> q42.labels.get('en').value
'Douglas Adams'
```

Full documentation is available at <<https://wikibaseintegrator.readthedocs.io/>>.

CHANGELOG

2.1 Changelog

INDICES AND TABLES

- genindex
- modindex
- search

PYTHON MODULE INDEX

W

- wikibaseintegrator, 115
- wikibaseintegrator.datatypes, 53
 - wikibaseintegrator.datatypes.basedatatype, 6
 - wikibaseintegrator.datatypes.commonsmidia, 8
 - wikibaseintegrator.datatypes.entityschema, 10
 - wikibaseintegrator.datatypes.externalid, 13
 - wikibaseintegrator.datatypes.extra, 6
 - wikibaseintegrator.datatypes.extra.edtf, 1
 - wikibaseintegrator.datatypes.extra.localmedia, 3
 - wikibaseintegrator.datatypes.form, 15
 - wikibaseintegrator.datatypes.geoshape, 18
 - wikibaseintegrator.datatypes.globecoordinate, 20
 - wikibaseintegrator.datatypes.item, 23
 - wikibaseintegrator.datatypes.lexeme, 25
 - wikibaseintegrator.datatypes.math, 28
 - wikibaseintegrator.datatypes.monolingualtext, 30
 - wikibaseintegrator.datatypes.musicalnotation, 33
 - wikibaseintegrator.datatypes.property, 35
 - wikibaseintegrator.datatypes.quantity, 37
 - wikibaseintegrator.datatypes.sense, 40
 - wikibaseintegrator.datatypes.string, 42
 - wikibaseintegrator.datatypes.tabulardata, 45
 - wikibaseintegrator.datatypes.time, 47
 - wikibaseintegrator.datatypes.url, 50
- wikibaseintegrator.entities, 68
 - wikibaseintegrator.entities.baseentity, 53
 - wikibaseintegrator.entities.item, 55
 - wikibaseintegrator.entities.lexeme, 59
 - wikibaseintegrator.entities.mediainfo, 62
 - wikibaseintegrator.entities.property, 65
- wikibaseintegrator.models, 90
 - wikibaseintegrator.models.aliases, 68
 - wikibaseintegrator.models.basemodel, 70
 - wikibaseintegrator.models.claims, 70
 - wikibaseintegrator.models.descriptions, 74
 - wikibaseintegrator.models.forms, 75
 - wikibaseintegrator.models.labels, 78
 - wikibaseintegrator.models.language_values, 79
 - wikibaseintegrator.models.lemmas, 81
 - wikibaseintegrator.models.qualifiers, 82
 - wikibaseintegrator.models.references, 83
 - wikibaseintegrator.models.senses, 85
 - wikibaseintegrator.models.sitelinks, 88
 - wikibaseintegrator.models.snaks, 89
 - wikibaseintegrator.wbi_backoff, 90
 - wikibaseintegrator.wbi_config, 90
 - wikibaseintegrator.wbi_enums, 91
 - wikibaseintegrator.wbi_exceptions, 93
 - wikibaseintegrator.wbi_fastrun, 97
 - wikibaseintegrator.wbi_helpers, 100
 - wikibaseintegrator.wbi_login, 109
 - wikibaseintegrator.wikibaseintegrator, 114

Symbols

- `__init__()` (*wikibaseintegrator.datatypes.basedatatype.BaseDataType* method), 6
- `__init__()` (*wikibaseintegrator.datatypes.commonsmidia.CommonsMedia* method), 8
- `__init__()` (*wikibaseintegrator.datatypes.entityschema.EntitySchema* method), 11
- `__init__()` (*wikibaseintegrator.datatypes.externalid.ExternalID* method), 13
- `__init__()` (*wikibaseintegrator.datatypes.extra.edtf.EDTF* method), 1
- `__init__()` (*wikibaseintegrator.datatypes.extra.localmedia.LocalMedia* method), 3
- `__init__()` (*wikibaseintegrator.datatypes.form.Form* method), 15
- `__init__()` (*wikibaseintegrator.datatypes.geoshape.GeoShape* method), 18
- `__init__()` (*wikibaseintegrator.datatypes.globecoordinate.GlobeCoordinate* method), 21
- `__init__()` (*wikibaseintegrator.datatypes.item.Item* method), 23
- `__init__()` (*wikibaseintegrator.datatypes.lexeme.Lexeme* method), 26
- `__init__()` (*wikibaseintegrator.datatypes.math.Math* method), 28
- `__init__()` (*wikibaseintegrator.datatypes.monolingualtext.MonolingualText* method), 30
- `__init__()` (*wikibaseintegrator.datatypes.musicalnotation.MusicalNotation* method), 33
- `__init__()` (*wikibaseintegrator.datatypes.property.Property* method), 35
- `__init__()` (*wikibaseintegrator.datatypes.quantity.Quantity* method), 37
- `__init__()` (*wikibaseintegrator.datatypes.sense.Sense* method), 40
- `__init__()` (*wikibaseintegrator.datatypes.string.String* method), 42
- `__init__()` (*wikibaseintegrator.datatypes.tabulardata.TabularData* method), 45
- `__init__()` (*wikibaseintegrator.datatypes.time.Time* method), 47
- `__init__()` (*wikibaseintegrator.datatypes.url.URL* method), 51
- `__init__()` (*wikibaseintegrator.entities.baseentity.BaseEntity* method), 53
- `__init__()` (*wikibaseintegrator.entities.item.ItemEntity* method), 56
- `__init__()` (*wikibaseintegrator.entities.lexeme.LexemeEntity* method), 59
- `__init__()` (*wikibaseintegrator.entities.mediainfo.MediaInfoEntity* method), 62
- `__init__()` (*wikibaseintegrator.entities.property.PropertyEntity* method), 66
- `__init__()` (*wikibaseintegrator.models.alias.Alias* method), 69
- `__init__()` (*wikibaseintegrator.models.alias.Aliases* method), 69
- `__init__()` (*wikibaseintegrator.models.basemodel.BaseModel* method), 70
- `__init__()` (*wikibaseintegrator.models.claims.Claim* method), 70
- `__init__()` (*wikibaseintegrator.models.claims.Claims* method), 73
- `__init__()` (*wikibaseintegrator.models.descriptions.Descriptions* method), 74
- `__init__()` (*wikibaseintegrator.models.form.Form* method), 74

method), 75
`__init__()` (*wikibaseintegrator.models.forms.Forms* *method*), 76
`__init__()` (*wikibaseintegrator.models.forms.Representations* *method*), 76
`__init__()` (*wikibaseintegrator.models.labels.Labels* *method*), 78
`__init__()` (*wikibaseintegrator.models.language_values.LanguageValue* *method*), 79
`__init__()` (*wikibaseintegrator.models.language_values.LanguageValues* *method*), 80
`__init__()` (*wikibaseintegrator.models.lemmas.Lemmas* *method*), 81
`__init__()` (*wikibaseintegrator.models.qualifiers.Qualifiers* *method*), 82
`__init__()` (*wikibaseintegrator.models.references.Reference* *method*), 83
`__init__()` (*wikibaseintegrator.models.references.References* *method*), 84
`__init__()` (*wikibaseintegrator.models.senses.Glosses* *method*), 85
`__init__()` (*wikibaseintegrator.models.senses.Sense* *method*), 86
`__init__()` (*wikibaseintegrator.models.senses.Senses* *method*), 87
`__init__()` (*wikibaseintegrator.models.sitelinks.Sitelink* *method*), 88
`__init__()` (*wikibaseintegrator.models.sitelinks.Sitelinks* *method*), 88
`__init__()` (*wikibaseintegrator.models.snaks.Snak* *method*), 89
`__init__()` (*wikibaseintegrator.models.snaks.Snaks* *method*), 89
`__init__()` (*wikibaseintegrator.wbi_exceptions.MWApiError* *method*), 93
`__init__()` (*wikibaseintegrator.wbi_exceptions.MaxRetriesReachedException* *method*), 94
`__init__()` (*wikibaseintegrator.wbi_exceptions.MissingEntityException* *method*), 94
`__init__()` (*wikibaseintegrator.wbi_exceptions.ModificationFailed* *method*), 94
`__init__()` (*wikibaseintegrator.wbi_exceptions.NonExistentEntityError* *method*), 95
`__init__()` (*wikibaseintegrator.wbi_exceptions.SaveFailed* *method*), 96
`__init__()` (*wikibaseintegrator.wbi_exceptions.SearchError* *method*), 96
`__init__()` (*wikibaseintegrator.wbi_fastrun.FastRunContainer* *method*), 97
`__init__()` (*wikibaseintegrator.wbi_helpers.BColors* *method*), 100
`__init__()` (*wikibaseintegrator.wbi_login.Clientlogin* *method*), 109
`__init__()` (*wikibaseintegrator.wbi_login.Login* *method*), 110
`__init__()` (*wikibaseintegrator.wbi_login.LoginError* *method*), 111
`__init__()` (*wikibaseintegrator.wbi_login.OAuth1* *method*), 112
`__init__()` (*wikibaseintegrator.wbi_login.OAuth2* *method*), 113
`__init__()` (*wikibaseintegrator.wikibaseintegrator.WikibaseIntegrator* *method*), 114

A

ActionIfExists (*class in wikibaseintegrator.wbi_enums*), 91
add() (*wikibaseintegrator.models.claims.Claims* *method*), 73
add() (*wikibaseintegrator.models.descriptions.Descriptions* *method*), 74
add() (*wikibaseintegrator.models.forms.Forms* *method*), 76
add() (*wikibaseintegrator.models.forms.Representations* *method*), 76
add() (*wikibaseintegrator.models.labels.Labels* *method*), 78
add() (*wikibaseintegrator.models.language_values.LanguageValues* *method*), 80
add() (*wikibaseintegrator.models.lemmas.Lemmas* *method*), 81
add() (*wikibaseintegrator.models.qualifiers.Qualifiers* *method*), 82
add() (*wikibaseintegrator.models.references.Reference* *method*), 83
add() (*wikibaseintegrator.models.references.References* *method*), 84
add() (*wikibaseintegrator.models.senses.Glosses* *method*), 85
add() (*wikibaseintegrator.models.senses.Senses* *method*), 87

- add()** (*wikibaseintegrator.models.snaks.Snaks* method), 90
add_claims() (*wikibaseintegrator.entities.baseentity.BaseEntity* method), 53
add_claims() (*wikibaseintegrator.entities.item.ItemEntity* method), 56
add_claims() (*wikibaseintegrator.entities.lexeme.LexemeEntity* method), 59
add_claims() (*wikibaseintegrator.entities.mediainfo.MediaInfoEntity* method), 62
add_claims() (*wikibaseintegrator.entities.property.PropertyEntity* method), 66
add_note() (*wikibaseintegrator.wbi_exceptions.MaxRetriesReachedException* method), 94
add_note() (*wikibaseintegrator.wbi_exceptions.MissingEntityException* method), 94
add_note() (*wikibaseintegrator.wbi_exceptions.ModificationFailed* method), 94
add_note() (*wikibaseintegrator.wbi_exceptions.MWApiError* method), 93
add_note() (*wikibaseintegrator.wbi_exceptions.NonExistentEntityError* method), 95
add_note() (*wikibaseintegrator.wbi_exceptions.SaveFailed* method), 96
add_note() (*wikibaseintegrator.wbi_exceptions.SearchError* method), 96
add_note() (*wikibaseintegrator.wbi_login.LoginError* method), 111
Alias (class in *wikibaseintegrator.models.aliases*), 68
Aliases (class in *wikibaseintegrator.models.aliases*), 69
aliases (*wikibaseintegrator.entities.item.ItemEntity* property), 56
aliases (*wikibaseintegrator.entities.mediainfo.MediaInfoEntity* property), 63
aliases (*wikibaseintegrator.entities.property.PropertyEntity* property), 66
aliases (*wikibaseintegrator.models.aliases.Aliases* property), 69
ALIASES (*wikibaseintegrator.wbi_enums.EntityField* attribute), 91
api (*wikibaseintegrator.entities.baseentity.BaseEntity* property), 54
api (*wikibaseintegrator.entities.item.ItemEntity* property), 56
api (*wikibaseintegrator.entities.lexeme.LexemeEntity* property), 59
api (*wikibaseintegrator.entities.mediainfo.MediaInfoEntity* property), 63
api (*wikibaseintegrator.entities.property.PropertyEntity* property), 66
APPEND_OR_REPLACE (*wikibaseintegrator.wbi_enums.ActionIfExists* attribute), 91
args (*wikibaseintegrator.wbi_exceptions.MaxRetriesReachedException* attribute), 94
args (*wikibaseintegrator.wbi_exceptions.MissingEntityException* attribute), 94
args (*wikibaseintegrator.wbi_exceptions.ModificationFailed* attribute), 94
args (*wikibaseintegrator.wbi_exceptions.MWApiError* attribute), 93
args (*wikibaseintegrator.wbi_exceptions.NonExistentEntityError* attribute), 95
args (*wikibaseintegrator.wbi_exceptions.SaveFailed* attribute), 96
args (*wikibaseintegrator.wbi_exceptions.SearchError* attribute), 96
args (*wikibaseintegrator.wbi_login.LoginError* attribute), 111
- ## B
- BaseDataType** (class in *wikibaseintegrator.datatypes.basedatatype*), 6
BaseEntity (class in *wikibaseintegrator.entities.baseentity*), 53
BaseModel (class in *wikibaseintegrator.models.basemodel*), 70
BColors (class in *wikibaseintegrator.wbi_helpers*), 100
BILLION_YEARS (*wikibaseintegrator.wbi_enums.WikibaseTimePrecision* attribute), 92
BOLD (*wikibaseintegrator.wbi_helpers.BColors* attribute), 100
- ## C
- CENTURY** (*wikibaseintegrator.wbi_enums.WikibaseTimePrecision* attribute), 93
check_language_data() (*wikibaseintegrator.wbi_fastrun.FastRunContainer* method), 97
Claim (class in *wikibaseintegrator.models.claims*), 70
Claims (class in *wikibaseintegrator.models.claims*), 72
claims (*wikibaseintegrator.entities.baseentity.BaseEntity* property),

- 54
- claims (*wikibaseintegrator.entities.item.ItemEntity* property), 56
- claims (*wikibaseintegrator.entities.lexeme.LexemeEntity* property), 60
- claims (*wikibaseintegrator.entities.mediainfo.MediaInfoEntity* property), 63
- claims (*wikibaseintegrator.entities.property.PropertyEntity* property), 66
- claims (*wikibaseintegrator.models.claims.Claims* property), 73
- claims (*wikibaseintegrator.models.forms.Form* property), 75
- CLAIMS (*wikibaseintegrator.wbi_enums.EntityField* attribute), 91
- clear() (*wikibaseintegrator.entities.baseentity.BaseEntity* method), 54
- clear() (*wikibaseintegrator.entities.item.ItemEntity* method), 56
- clear() (*wikibaseintegrator.entities.lexeme.LexemeEntity* method), 60
- clear() (*wikibaseintegrator.entities.mediainfo.MediaInfoEntity* method), 63
- clear() (*wikibaseintegrator.entities.property.PropertyEntity* method), 66
- clear() (*wikibaseintegrator.models.qualifiers.Qualifiers* method), 82
- clear() (*wikibaseintegrator.models.references.References* method), 84
- clear() (*wikibaseintegrator.wbi_fastrun.FastRunContainer* method), 98
- Clientlogin (class in *wikibaseintegrator.wbi_login*), 109
- code (*wikibaseintegrator.wbi_exceptions.ModificationFailed* attribute), 94
- code (*wikibaseintegrator.wbi_exceptions.MWApiError* attribute), 93
- code (*wikibaseintegrator.wbi_exceptions.NonExistentEntity* attribute), 95
- code (*wikibaseintegrator.wbi_exceptions.SaveFailed* attribute), 96
- CommonsMedia (class in *wikibaseintegrator.datatypes.commonsmedia*), 8
- COMMONSMEDIA (*wikibaseintegrator.wbi_enums.WikibaseDatatype* attribute), 91
- continue_oauth() (*wikibaseintegrator.wbi_login.OAuth1* method), 112
- ## D
- datatype (*wikibaseintegrator.entities.property.PropertyEntity* property), 66
- datatype (*wikibaseintegrator.models.snaks.Snak* property), 89
- datavalue (*wikibaseintegrator.models.snaks.Snak* property), 89
- DAY (*wikibaseintegrator.wbi_enums.WikibaseTimePrecision* attribute), 93
- DECADE (*wikibaseintegrator.wbi_enums.WikibaseTimePrecision* attribute), 93
- delete() (*wikibaseintegrator.entities.baseentity.BaseEntity* method), 54
- delete() (*wikibaseintegrator.entities.item.ItemEntity* method), 56
- delete() (*wikibaseintegrator.entities.lexeme.LexemeEntity* method), 60
- delete() (*wikibaseintegrator.entities.mediainfo.MediaInfoEntity* method), 63
- delete() (*wikibaseintegrator.entities.property.PropertyEntity* method), 66
- delete_page() (in module *wikibaseintegrator.wbi_helpers*), 100
- DEPRECATED (*wikibaseintegrator.wbi_enums.WikibaseRank* attribute), 92
- Descriptions (class in *wikibaseintegrator.models.descriptions*), 74
- descriptions (*wikibaseintegrator.entities.item.ItemEntity* property), 57
- descriptions (*wikibaseintegrator.entities.mediainfo.MediaInfoEntity* property), 63
- descriptions (*wikibaseintegrator.entities.property.PropertyEntity* property), 67
- DESCRIPTIONS (*wikibaseintegrator.wbi_enums.EntityField* attribute), 91
- download_entity_ttl() (in module *wikibaseintegrator.wbi_helpers*), 101
- download_entity_ttl() (*wikibaseintegrator.entities.baseentity.BaseEntity* method), 54
- download_entity_ttl() (*wikibaseintegrator.entities.item.ItemEntity* method), 57

download_entity_ttl()	(<i>wikibaseintegrator.entities.lexeme.LexemeEntity</i> method), 60	<i>tor.datatypes.tabulardata.TabularData</i> attribute), 45
download_entity_ttl()	(<i>wikibaseintegrator.entities.mediainfo.MediaInfoEntity</i> method), 63	DTYPE (<i>wikibaseintegrator.datatypes.time.Time</i> attribute), 47
download_entity_ttl()	(<i>wikibaseintegrator.entities.property.PropertyEntity</i> method), 67	DTYPE (<i>wikibaseintegrator.datatypes.url.URL</i> attribute), 50
DTYPE	(<i>wikibaseintegrator.datatypes.basedatatype.BaseDataType</i> attribute), 6	DTYPE (<i>wikibaseintegrator.models.claims.Claim</i> attribute), 70
DTYPE	(<i>wikibaseintegrator.datatypes.commonsmedia.CommonsMedia</i> attribute), 8	E
DTYPE	(<i>wikibaseintegrator.datatypes.entityschema.EntitySchema</i> attribute), 11	edit_entity() (in module <i>wikibaseintegrator.wbi_helpers</i>), 101
DTYPE	(<i>wikibaseintegrator.datatypes.externalid.ExternalID</i> attribute), 13	edit_token (<i>wikibaseintegrator.wbi_login.OAuth1</i> attribute), 112
DTYPE (<i>wikibaseintegrator.datatypes.extra.edtf.EDTF</i> attribute), 1		edit_token (<i>wikibaseintegrator.wbi_login.OAuth2</i> attribute), 114
DTYPE	(<i>wikibaseintegrator.datatypes.extra.localmedia.LocalMedia</i> attribute), 3	EDTF (class in <i>wikibaseintegrator.datatypes.extra.edtf</i>), 1
DTYPE	(<i>wikibaseintegrator.datatypes.form.Form</i> attribute), 15	EDTF (<i>wikibaseintegrator.wbi_enums.WikibaseDatatype</i> attribute), 91
DTYPE (<i>wikibaseintegrator.datatypes.geoshape.GeoShape</i> attribute), 18		ENDC (<i>wikibaseintegrator.wbi_helpers.BColors</i> attribute), 100
DTYPE	(<i>wikibaseintegrator.datatypes.globecoordinate.GlobeCoordinate</i> attribute), 21	EntityField (class in <i>wikibaseintegrator.wbi_enums</i>), 91
DTYPE (<i>wikibaseintegrator.datatypes.item.Item</i> attribute), 23		EntitySchema (class in <i>wikibaseintegrator.datatypes.entityschema</i>), 10
DTYPE	(<i>wikibaseintegrator.datatypes.lexeme.Lexeme</i> attribute), 26	ENTITYSHEMA (<i>wikibaseintegrator.wbi_enums.WikibaseDatatype</i> attribute), 92
DTYPE	(<i>wikibaseintegrator.datatypes.math.Math</i> attribute), 28	equals() (<i>wikibaseintegrator.datatypes.basedatatype.BaseDataType</i> method), 6
DTYPE	(<i>wikibaseintegrator.datatypes.monolingualtext.MonolingualText</i> attribute), 30	equals() (<i>wikibaseintegrator.datatypes.commonsmedia.CommonsMedia</i> method), 8
DTYPE	(<i>wikibaseintegrator.datatypes.musicalnotation.MusicalNotation</i> attribute), 33	equals() (<i>wikibaseintegrator.datatypes.entityschema.EntitySchema</i> method), 11
DTYPE	(<i>wikibaseintegrator.datatypes.property.Property</i> attribute), 35	equals() (<i>wikibaseintegrator.datatypes.externalid.ExternalID</i> method), 13
DTYPE	(<i>wikibaseintegrator.datatypes.quantity.Quantity</i> attribute), 37	equals() (<i>wikibaseintegrator.datatypes.extra.edtf.EDTF</i> method), 1
DTYPE	(<i>wikibaseintegrator.datatypes.sense.Sense</i> attribute), 40	equals() (<i>wikibaseintegrator.datatypes.extra.localmedia.LocalMedia</i> method), 4
DTYPE	(<i>wikibaseintegrator.datatypes.string.String</i> attribute), 42	equals() (<i>wikibaseintegrator.datatypes.form.Form</i> method), 16
DTYPE	(<i>wikibaseintegra-</i>	equals() (<i>wikibaseintegrator.datatypes.geoshape.GeoShape</i> method), 18
		equals() (<i>wikibaseintegrator.datatypes.globecoordinate.GlobeCoordinate</i> method), 21

- `equals()` (*wikibaseintegrator.datatypes.item.Item* method), 23
- `equals()` (*wikibaseintegrator.datatypes.lexeme.Lexeme* method), 26
- `equals()` (*wikibaseintegrator.datatypes.math.Math* method), 28
- `equals()` (*wikibaseintegrator.datatypes.monolingualtext.MonolingualText* method), 31
- `equals()` (*wikibaseintegrator.datatypes.musicalnotation.MusicalNotation* method), 33
- `equals()` (*wikibaseintegrator.datatypes.property.Property* method), 35
- `equals()` (*wikibaseintegrator.datatypes.quantity.Quantity* method), 38
- `equals()` (*wikibaseintegrator.datatypes.sense.Sense* method), 40
- `equals()` (*wikibaseintegrator.datatypes.string.String* method), 43
- `equals()` (*wikibaseintegrator.datatypes.tabulardata.TabularData* method), 45
- `equals()` (*wikibaseintegrator.datatypes.time.Time* method), 48
- `equals()` (*wikibaseintegrator.datatypes.url.URL* method), 51
- `equals()` (*wikibaseintegrator.models.claims.Claim* method), 71
- `error_dict` (*wikibaseintegrator.wbi_exceptions.ModificationFailed* attribute), 94
- `error_dict` (*wikibaseintegrator.wbi_exceptions.MWApiError* attribute), 93
- `error_dict` (*wikibaseintegrator.wbi_exceptions.NonExistentEntityError* attribute), 95
- `error_dict` (*wikibaseintegrator.wbi_exceptions.SaveFailed* attribute), 96
- `ETYPE` (*wikibaseintegrator.entities.baseentity.BaseEntity* attribute), 53
- `ETYPE` (*wikibaseintegrator.entities.item.ItemEntity* attribute), 56
- `ETYPE` (*wikibaseintegrator.entities.lexeme.LexemeEntity* attribute), 59
- `ETYPE` (*wikibaseintegrator.entities.mediainfo.MediaInfoEntity* attribute), 62
- `ETYPE` (*wikibaseintegrator.entities.property.PropertyEntity* attribute), 65
- `execute_sparql_query()` (*in module wikibaseintegrator.wbi_helpers*), 102
- `ExternalID` (class *in wikibaseintegrator.datatypes.externalid*), 13
- `EXTERNALID` (*wikibaseintegrator.wbi_enums.WikibaseDatatype* attribute), 92
- ## F
- `FAIL` (*wikibaseintegrator.wbi_helpers.BColors* attribute), 100
- `FastRunContainer` (class *in wikibaseintegrator.wbi_fastrun*), 97
- `FORCE_APPEND` (*wikibaseintegrator.wbi_enums.ActionIfExists* attribute), 91
- `Form` (class *in wikibaseintegrator.datatypes.form*), 15
- `Form` (class *in wikibaseintegrator.models.forms*), 75
- `FORM` (*wikibaseintegrator.wbi_enums.WikibaseDatatype* attribute), 92
- `format2wbi()` (*in module wikibaseintegrator.wbi_helpers*), 103
- `format_amount()` (*in module wikibaseintegrator.wbi_helpers*), 103
- `format_query_results()` (*wikibaseintegrator.wbi_fastrun.FastRunContainer* method), 98
- `Forms` (class *in wikibaseintegrator.models.forms*), 76
- `forms` (*wikibaseintegrator.entities.lexeme.LexemeEntity* property), 60
- `forms` (*wikibaseintegrator.models.forms.Forms* property), 76
- `FORMS` (*wikibaseintegrator.wbi_enums.EntityField* attribute), 91
- `from_json()` (*wikibaseintegrator.datatypes.basedatatype.BaseDataType* method), 6
- `from_json()` (*wikibaseintegrator.datatypes.commonsmedia.CommonsMedia* method), 9
- `from_json()` (*wikibaseintegrator.datatypes.entityschema.EntitySchema* method), 11
- `from_json()` (*wikibaseintegrator.datatypes.externalid.ExternalID* method), 13
- `from_json()` (*wikibaseintegrator.datatypes.extra.edtf.EDTF* method), 2
- `from_json()` (*wikibaseintegrator.datatypes.extra.localmedia.LocalMedia* method), 4
- `from_json()` (*wikibaseintegrator.datatypes.form.Form* method), 16

- `from_json()` (*wikibaseintegrator.datatypes.geoshape.GeoShape* method), 18
- `from_json()` (*wikibaseintegrator.datatypes.globecoordinate.GlobeCoordinate* method), 21
- `from_json()` (*wikibaseintegrator.datatypes.item.Item* method), 24
- `from_json()` (*wikibaseintegrator.datatypes.lexeme.Lexeme* method), 26
- `from_json()` (*wikibaseintegrator.datatypes.math.Math* method), 28
- `from_json()` (*wikibaseintegrator.datatypes.monolingualtext.MonolingualText* method), 31
- `from_json()` (*wikibaseintegrator.datatypes.musicalnotation.MusicalNotation* method), 33
- `from_json()` (*wikibaseintegrator.datatypes.property.Property* method), 35
- `from_json()` (*wikibaseintegrator.datatypes.quantity.Quantity* method), 38
- `from_json()` (*wikibaseintegrator.datatypes.sense.Sense* method), 40
- `from_json()` (*wikibaseintegrator.datatypes.string.String* method), 43
- `from_json()` (*wikibaseintegrator.datatypes.tabulardata.TabularData* method), 45
- `from_json()` (*wikibaseintegrator.datatypes.time.Time* method), 48
- `from_json()` (*wikibaseintegrator.datatypes.url.URL* method), 51
- `from_json()` (*wikibaseintegrator.entities.baseentity.BaseEntity* method), 54
- `from_json()` (*wikibaseintegrator.entities.item.ItemEntity* method), 57
- `from_json()` (*wikibaseintegrator.entities.lexeme.LexemeEntity* method), 60
- `from_json()` (*wikibaseintegrator.entities.mediainfo.MediaInfoEntity* method), 63
- `from_json()` (*wikibaseintegrator.entities.property.PropertyEntity* method), 67
- `from_json()` (*wikibaseintegrator.models.aliases.Alias* method), 69
- `from_json()` (*wikibaseintegrator.models.aliases.Aliases* method), 69
- `from_json()` (*wikibaseintegrator.models.claims.Claim* method), 71
- `from_json()` (*wikibaseintegrator.models.claims.Claims* method), 73
- `from_json()` (*wikibaseintegrator.models.descriptions.Descriptions* method), 74
- `from_json()` (*wikibaseintegrator.models.forms.Form* method), 75
- `from_json()` (*wikibaseintegrator.models.forms.Forms* method), 76
- `from_json()` (*wikibaseintegrator.models.forms.Representations* method), 77
- `from_json()` (*wikibaseintegrator.models.labels.Labels* method), 78
- `from_json()` (*wikibaseintegrator.models.language_values.LanguageValue* method), 79
- `from_json()` (*wikibaseintegrator.models.language_values.LanguageValues* method), 80
- `from_json()` (*wikibaseintegrator.models.lemmas.Lemmas* method), 81
- `from_json()` (*wikibaseintegrator.models.qualifiers.Qualifiers* method), 83
- `from_json()` (*wikibaseintegrator.models.references.Reference* method), 84
- `from_json()` (*wikibaseintegrator.models.references.References* method), 84
- `from_json()` (*wikibaseintegrator.models.senses.Glosses* method), 85
- `from_json()` (*wikibaseintegrator.models.senses.Sense* method), 87
- `from_json()` (*wikibaseintegrator.models.senses.Senses* method), 87
- `from_json()` (*wikibaseintegrator.models.sitelinks.Sitelinks* method), 88
- `from_json()` (*wikibaseintegrator.models.snaks.Snak* method), 89
- `from_json()` (*wikibaseintegrator.models.snaks.Snaks* method), 90
- `fulltext_search()` (in module *wikibaseintegrator.wbi_helpers*), 103
- ## G
- `generate_edit_credentials()` (*wikibaseintegrator.wbi_login.Clientlogin* method), 109
- `generate_edit_credentials()` (*wikibaseintegrator.wbi_login.Login* method), 110
- `generate_edit_credentials()` (*wikibaseintegrator.wbi_login.OAuth1* method), 112

- generate_edit_credentials() (*wikibaseintegrator.wbi_login.OAuth2 method*), 114
- generate_entity_instances() (*in module wikibaseintegrator.wbi_helpers*), 103
- GeoShape (*class in wikibaseintegrator.datatypes.geoshape*), 18
- GEOSHAPE (*wikibaseintegrator.wbi_enums.WikibaseDatatype attribute*), 92
- get() (*wikibaseintegrator.entities.item.ItemEntity method*), 57
- get() (*wikibaseintegrator.entities.lexeme.LexemeEntity method*), 60
- get() (*wikibaseintegrator.entities.mediainfo.MediaInfoEntity method*), 64
- get() (*wikibaseintegrator.entities.property.PropertyEntity method*), 67
- get() (*wikibaseintegrator.models.alias.Aliases method*), 70
- get() (*wikibaseintegrator.models.claims.Claims method*), 73
- get() (*wikibaseintegrator.models.descriptions.Descriptions method*), 74
- get() (*wikibaseintegrator.models.forms.Forms method*), 76
- get() (*wikibaseintegrator.models.forms.Representations method*), 77
- get() (*wikibaseintegrator.models.labels.Labels method*), 78
- get() (*wikibaseintegrator.models.language_values.LanguageValues method*), 80
- get() (*wikibaseintegrator.models.lemmas.Lemmas method*), 81
- get() (*wikibaseintegrator.models.qualifiers.Qualifiers method*), 83
- get() (*wikibaseintegrator.models.references.References method*), 84
- get() (*wikibaseintegrator.models.senses.Glosses method*), 85
- get() (*wikibaseintegrator.models.senses.Senses method*), 87
- get() (*wikibaseintegrator.models.sitelinks.Sitelinks method*), 88
- get() (*wikibaseintegrator.models.snaks.Snaks method*), 90
- get_all_data() (*wikibaseintegrator.wbi_fastrun.FastRunContainer method*), 98
- get_by_title() (*wikibaseintegrator.entities.mediainfo.MediaInfoEntity method*), 64
- get_conflicting_entity_ids (*wikibaseintegrator.wbi_exceptions.ModificationFailed property*), 94
- get_conflicting_entity_ids (*wikibaseintegrator.wbi_exceptions.MWApiError property*), 93
- get_conflicting_entity_ids (*wikibaseintegrator.wbi_exceptions.NonExistentEntityError property*), 95
- get_conflicting_entity_ids (*wikibaseintegrator.wbi_exceptions.SaveFailed property*), 96
- get_day() (*wikibaseintegrator.datatypes.time.Time method*), 48
- get_edit_cookie() (*wikibaseintegrator.wbi_login.Clientlogin method*), 109
- get_edit_cookie() (*wikibaseintegrator.wbi_login.Login method*), 111
- get_edit_cookie() (*wikibaseintegrator.wbi_login.OAuth1 method*), 112
- get_edit_cookie() (*wikibaseintegrator.wbi_login.OAuth2 method*), 114
- get_edit_token() (*wikibaseintegrator.wbi_login.Clientlogin method*), 110
- get_edit_token() (*wikibaseintegrator.wbi_login.Login method*), 111
- get_edit_token() (*wikibaseintegrator.wbi_login.OAuth1 method*), 113
- get_edit_token() (*wikibaseintegrator.wbi_login.OAuth2 method*), 114
- get_entity_url() (*wikibaseintegrator.entities.baseentity.BaseEntity method*), 55
- get_entity_url() (*wikibaseintegrator.entities.item.ItemEntity method*), 57
- get_entity_url() (*wikibaseintegrator.entities.lexeme.LexemeEntity method*), 61
- get_entity_url() (*wikibaseintegrator.entities.mediainfo.MediaInfoEntity method*), 64
- get_entity_url() (*wikibaseintegrator.entities.property.PropertyEntity method*), 67
- get_fastrun_container() (*in module wikibaseintegrator.wbi_fastrun*), 100
- get_item() (*wikibaseintegrator.wbi_fastrun.FastRunContainer method*), 98
- get_items() (*wikibaseintegrator.wbi_fastrun.FastRunContainer method*), 98
- get_json() (*wikibaseintegrator*), 98

tor.datatypes.basedatatype.BaseDataType method), 6
 get_json() (*wikibaseintegrator.datatypes.commonsmmedia.CommonsMedia* method), 9
 get_json() (*wikibaseintegrator.datatypes.entityschema.EntitySchema* method), 11
 get_json() (*wikibaseintegrator.datatypes.externalid.ExternalID* method), 13
 get_json() (*wikibaseintegrator.datatypes.extra.edtf.EDTF* method), 2
 get_json() (*wikibaseintegrator.datatypes.extra.localmedia.LocalMedia* method), 4
 get_json() (*wikibaseintegrator.datatypes.form.Form* method), 16
 get_json() (*wikibaseintegrator.datatypes.geoshape.GeoShape* method), 19
 get_json() (*wikibaseintegrator.datatypes.globecoordinate.GlobeCoordinate* method), 21
 get_json() (*wikibaseintegrator.datatypes.item.Item* method), 24
 get_json() (*wikibaseintegrator.datatypes.lexeme.Lexeme* method), 26
 get_json() (*wikibaseintegrator.datatypes.math.Math* method), 28
 get_json() (*wikibaseintegrator.datatypes.monolingualtext.MonolingualText* method), 31
 get_json() (*wikibaseintegrator.datatypes.musicalnotation.MusicalNotation* method), 33
 get_json() (*wikibaseintegrator.datatypes.property.Property* method), 36
 get_json() (*wikibaseintegrator.datatypes.quantity.Quantity* method), 38
 get_json() (*wikibaseintegrator.datatypes.sense.Sense* method), 41
 get_json() (*wikibaseintegrator.datatypes.string.String* method), 43
 get_json() (*wikibaseintegrator.datatypes.tabulardata.TabularData* method), 45
 get_json() (*wikibaseintegrator.datatypes.time.Time* method), 48
 get_json() (*wikibaseintegrator.datatypes.url.URL* method), 51
 get_json() (*wikibaseintegrator.datatypes.basedatatype.BaseDataType* method), 55
 get_json() (*wikibaseintegrator.entities.item.ItemEntity* method), 57
 get_json() (*wikibaseintegrator.entities.lexeme.LexemeEntity* method), 61
 get_json() (*wikibaseintegrator.entities.mediainfo.MediaInfoEntity* method), 64
 get_json() (*wikibaseintegrator.entities.property.PropertyEntity* method), 67
 get_json() (*wikibaseintegrator.models.aliases.Alias* method), 69
 get_json() (*wikibaseintegrator.models.aliases.Aliases* method), 70
 get_json() (*wikibaseintegrator.models.claims.Claim* method), 71
 get_json() (*wikibaseintegrator.models.claims.Claims* method), 73
 get_json() (*wikibaseintegrator.models.descriptions.Descriptions* method), 74
 get_json() (*wikibaseintegrator.models.forms.Form* method), 75
 get_json() (*wikibaseintegrator.models.forms.Forms* method), 76
 get_json() (*wikibaseintegrator.models.forms.Representations* method), 77
 get_json() (*wikibaseintegrator.models.labels.Labels* method), 78
 get_json() (*wikibaseintegrator.models.language_values.LanguageValue* method), 79
 get_json() (*wikibaseintegrator.models.language_values.LanguageValues* method), 80
 get_json() (*wikibaseintegrator.models.lemmas.Lemmas* method), 82
 get_json() (*wikibaseintegrator.models.qualifiers.Qualifiers* method), 83
 get_json() (*wikibaseintegrator.models.references.Reference* method), 84
 get_json() (*wikibaseintegrator.models.references.References* method), 85
 get_json() (*wikibaseintegrator.models.senses.Glosses* method), 86
 get_json() (*wikibaseintegrator.models.senses.Sense* method), 87

- `get_json()` (*wikibaseintegrator.models.senses.Senses method*), 87
- `get_json()` (*wikibaseintegrator.models.sitelinks.Sitelinks method*), 88
- `get_json()` (*wikibaseintegrator.models.snaks.Snak method*), 89
- `get_json()` (*wikibaseintegrator.models.snaks.Snaks method*), 90
- `get_language_data()` (*wikibaseintegrator.wbi_fastrun.FastRunContainer method*), 98
- `get_languages` (*wikibaseintegrator.wbi_exceptions.ModificationFailed property*), 95
- `get_languages` (*wikibaseintegrator.wbi_exceptions.MWApiError property*), 93
- `get_languages` (*wikibaseintegrator.wbi_exceptions.NonExistentEntityError property*), 95
- `get_languages` (*wikibaseintegrator.wbi_exceptions.SaveFailed property*), 96
- `get_lexeme_id()` (*wikibaseintegrator.datatypes.form.Form method*), 16
- `get_lexeme_id()` (*wikibaseintegrator.datatypes.sense.Sense method*), 41
- `get_month()` (*wikibaseintegrator.datatypes.time.Time method*), 48
- `get_prop_datatype()` (*wikibaseintegrator.wbi_fastrun.FastRunContainer method*), 99
- `get_session()` (*wikibaseintegrator.wbi_login.Clientlogin method*), 110
- `get_session()` (*wikibaseintegrator.wbi_login.Login method*), 111
- `get_session()` (*wikibaseintegrator.wbi_login.OAuth1 method*), 113
- `get_session()` (*wikibaseintegrator.wbi_login.OAuth2 method*), 114
- `get_sparql_value()` (*wikibaseintegrator.datatypes.basedatatype.BaseDataType method*), 7
- `get_sparql_value()` (*wikibaseintegrator.datatypes.commonsmmedia.CommonsMedia method*), 9
- `get_sparql_value()` (*wikibaseintegrator.datatypes.entityschema.EntitySchema method*), 11
- `get_sparql_value()` (*wikibaseintegrator.datatypes.externalid.ExternalID method*), 14
- `get_sparql_value()` (*wikibaseintegrator.datatypes.extra.edtf.EDTF method*), 2
- `get_sparql_value()` (*wikibaseintegrator.datatypes.extra.localmedia.LocalMedia method*), 4
- `get_sparql_value()` (*wikibaseintegrator.datatypes.form.Form method*), 16
- `get_sparql_value()` (*wikibaseintegrator.datatypes.geoshape.GeoShape method*), 19
- `get_sparql_value()` (*wikibaseintegrator.datatypes.globecoordinate.GlobeCoordinate method*), 21
- `get_sparql_value()` (*wikibaseintegrator.datatypes.item.Item method*), 24
- `get_sparql_value()` (*wikibaseintegrator.datatypes.lexeme.Lexeme method*), 26
- `get_sparql_value()` (*wikibaseintegrator.datatypes.math.Math method*), 29
- `get_sparql_value()` (*wikibaseintegrator.datatypes.monolingualtext.MonolingualText method*), 31
- `get_sparql_value()` (*wikibaseintegrator.datatypes.musicalnotation.MusicalNotation method*), 33
- `get_sparql_value()` (*wikibaseintegrator.datatypes.property.Property method*), 36
- `get_sparql_value()` (*wikibaseintegrator.datatypes.quantity.Quantity method*), 38
- `get_sparql_value()` (*wikibaseintegrator.datatypes.sense.Sense method*), 41
- `get_sparql_value()` (*wikibaseintegrator.datatypes.string.String method*), 43
- `get_sparql_value()` (*wikibaseintegrator.datatypes.tabulardata.TabularData method*), 45
- `get_sparql_value()` (*wikibaseintegrator.datatypes.time.Time method*), 48
- `get_sparql_value()` (*wikibaseintegrator.datatypes.url.URL method*), 51
- `get_sparql_value()` (*wikibaseintegrator.models.claims.Claim method*), 71
- `get_user_agent()` (*in module wikibaseintegrator.wbi_helpers*), 104
- `get_year()` (*wikibaseintegrator.datatypes.time.Time method*), 49
- `GlobeCoordinate` (*class in wikibaseintegrator.datatypes.globecoordinate*), 20
- `GLOBECOORDINATE` (*wikibaseintegrator.wbi_enums.WikibaseDatatype attribute*), 92
- `Glosses` (*class in wikibaseintegrator.models.senses*), 85
- `grammatical_features` (*wikibaseintegrator.models.forms.Form property*), 75

H

- `has_equal_qualifiers()` (*wikibaseintegrator.datatypes.basedatatype.BaseDataType method*), 7
- `has_equal_qualifiers()` (*wikibaseintegrator.datatypes.commonsmedia.CommonsMedia method*), 9
- `has_equal_qualifiers()` (*wikibaseintegrator.datatypes.entityschema.EntitySchema method*), 11
- `has_equal_qualifiers()` (*wikibaseintegrator.datatypes.externalid.ExternalID method*), 14
- `has_equal_qualifiers()` (*wikibaseintegrator.datatypes.extra.edtf.EDTF method*), 2
- `has_equal_qualifiers()` (*wikibaseintegrator.datatypes.extra.localmedia.LocalMedia method*), 4
- `has_equal_qualifiers()` (*wikibaseintegrator.datatypes.form.Form method*), 16
- `has_equal_qualifiers()` (*wikibaseintegrator.datatypes.geoshape.GeoShape method*), 19
- `has_equal_qualifiers()` (*wikibaseintegrator.datatypes.globecoordinate.GlobeCoordinate method*), 21
- `has_equal_qualifiers()` (*wikibaseintegrator.datatypes.item.Item method*), 24
- `has_equal_qualifiers()` (*wikibaseintegrator.datatypes.lexeme.Lexeme method*), 26
- `has_equal_qualifiers()` (*wikibaseintegrator.datatypes.math.Math method*), 29
- `has_equal_qualifiers()` (*wikibaseintegrator.datatypes.monolingualtext.MonolingualText method*), 31
- `has_equal_qualifiers()` (*wikibaseintegrator.datatypes.musicalnotation.MusicalNotation method*), 33
- `has_equal_qualifiers()` (*wikibaseintegrator.datatypes.property.Property method*), 36
- `has_equal_qualifiers()` (*wikibaseintegrator.datatypes.quantity.Quantity method*), 38
- `has_equal_qualifiers()` (*wikibaseintegrator.datatypes.sense.Sense method*), 41
- `has_equal_qualifiers()` (*wikibaseintegrator.datatypes.string.String method*), 43
- `has_equal_qualifiers()` (*wikibaseintegrator.datatypes.tabulardata.TabularData method*), 46
- `has_equal_qualifiers()` (*wikibaseintegrator.datatypes.time.Time method*), 49
- `has_equal_qualifiers()` (*wikibaseintegrator.datatypes.url.URL method*), 51
- `has_equal_qualifiers()` (*wikibaseintegrator.models.claims.Claim method*), 71
- `hash` (*wikibaseintegrator.models.references.Reference property*), 84
- `hash` (*wikibaseintegrator.models.snaks.Snak property*), 89
- `HEADER` (*wikibaseintegrator.wbi_helpers.BColors attribute*), 100
- `HUNDRED_MILLION_YEARS` (*wikibaseintegrator.wbi_enums.WikibaseTimePrecision attribute*), 93
- `HUNDRED_THOUSAND_YEARS` (*wikibaseintegrator.wbi_enums.WikibaseTimePrecision attribute*), 93
- I**
- `id` (*wikibaseintegrator.datatypes.basedatatype.BaseDataType property*), 7
- `id` (*wikibaseintegrator.datatypes.commonsmedia.CommonsMedia property*), 9
- `id` (*wikibaseintegrator.datatypes.entityschema.EntitySchema property*), 11
- `id` (*wikibaseintegrator.datatypes.externalid.ExternalID property*), 14
- `id` (*wikibaseintegrator.datatypes.extra.edtf.EDTF property*), 2
- `id` (*wikibaseintegrator.datatypes.extra.localmedia.LocalMedia property*), 4
- `id` (*wikibaseintegrator.datatypes.form.Form property*), 16
- `id` (*wikibaseintegrator.datatypes.geoshape.GeoShape property*), 19
- `id` (*wikibaseintegrator.datatypes.globecoordinate.GlobeCoordinate property*), 22
- `id` (*wikibaseintegrator.datatypes.item.Item property*), 24
- `id` (*wikibaseintegrator.datatypes.lexeme.Lexeme property*), 26
- `id` (*wikibaseintegrator.datatypes.math.Math property*), 29
- `id` (*wikibaseintegrator.datatypes.monolingualtext.MonolingualText property*), 31
- `id` (*wikibaseintegrator.datatypes.musicalnotation.MusicalNotation property*), 34
- `id` (*wikibaseintegrator.datatypes.property.Property property*), 36
- `id` (*wikibaseintegrator.datatypes.quantity.Quantity property*), 38
- `id` (*wikibaseintegrator.datatypes.sense.Sense property*), 41
- `id` (*wikibaseintegrator.datatypes.string.String property*), 43
- `id` (*wikibaseintegrator.datatypes.tabulardata.TabularData property*), 46
- `id` (*wikibaseintegrator.datatypes.time.Time property*), 49

- id (*wikibaseintegrator.datatypes.url.URL* property), 51
- id (*wikibaseintegrator.entities.baseentity.BaseEntity* property), 55
- id (*wikibaseintegrator.entities.item.ItemEntity* property), 58
- id (*wikibaseintegrator.entities.lexeme.LexemeEntity* property), 61
- id (*wikibaseintegrator.entities.mediainfo.MediaInfoEntity* property), 64
- id (*wikibaseintegrator.entities.property.PropertyEntity* property), 67
- id (*wikibaseintegrator.models.claims.Claim* property), 71
- id (*wikibaseintegrator.models.forms.Form* property), 75
- info (*wikibaseintegrator.wbi_exceptions.ModificationFailed* attribute), 95
- info (*wikibaseintegrator.wbi_exceptions.MWApiError* attribute), 93
- info (*wikibaseintegrator.wbi_exceptions.NonExistentEntityError* attribute), 95
- info (*wikibaseintegrator.wbi_exceptions.SaveFailed* attribute), 96
- init_language_data() (*wikibaseintegrator.wbi_fastrun.FastRunContainer* method), 99
- instantiation_time (*wikibaseintegrator.wbi_login.OAuth1* attribute), 113
- instantiation_time (*wikibaseintegrator.wbi_login.OAuth2* attribute), 114
- Item (class in *wikibaseintegrator.datatypes.item*), 23
- ITEM (*wikibaseintegrator.wbi_enums.WikibaseDatatype* attribute), 92
- ItemEntity (class in *wikibaseintegrator.entities.item*), 55
- ## K
- KEEP (*wikibaseintegrator.wbi_enums.ActionIfExists* attribute), 91
- KNOWN_VALUE (*wikibaseintegrator.wbi_enums.WikibaseSnakType* attribute), 92
- ## L
- Labels (class in *wikibaseintegrator.models.labels*), 78
- labels (*wikibaseintegrator.entities.item.ItemEntity* property), 58
- labels (*wikibaseintegrator.entities.mediainfo.MediaInfoEntity* property), 64
- labels (*wikibaseintegrator.entities.property.PropertyEntity* property), 67
- LABELS (*wikibaseintegrator.wbi_enums.EntityField* attribute), 91
- language (*wikibaseintegrator.entities.lexeme.LexemeEntity* property), 61
- language (*wikibaseintegrator.models.aliases.Alias* property), 69
- language (*wikibaseintegrator.models.language_values.LanguageValue* property), 79
- LANGUAGE (*wikibaseintegrator.wbi_enums.EntityField* attribute), 91
- LanguageValue (class in *wikibaseintegrator.models.language_values*), 79
- LanguageValues (class in *wikibaseintegrator.models.language_values*), 79
- lastrevid (*wikibaseintegrator.entities.baseentity.BaseEntity* property), 55
- lastrevid (*wikibaseintegrator.entities.item.ItemEntity* property), 58
- lastrevid (*wikibaseintegrator.entities.lexeme.LexemeEntity* property), 61
- lastrevid (*wikibaseintegrator.entities.mediainfo.MediaInfoEntity* property), 64
- lastrevid (*wikibaseintegrator.entities.property.PropertyEntity* property), 67
- Lemmas (class in *wikibaseintegrator.models.lemmas*), 81
- lemmas (*wikibaseintegrator.entities.lexeme.LexemeEntity* property), 61
- LEMMAS (*wikibaseintegrator.wbi_enums.EntityField* attribute), 91
- Lexeme (class in *wikibaseintegrator.datatypes.lexeme*), 25
- LEXEME (*wikibaseintegrator.wbi_enums.WikibaseDatatype* attribute), 92
- lexeme_add_form() (in module *wikibaseintegrator.wbi_helpers*), 104
- lexeme_add_sense() (in module *wikibaseintegrator.wbi_helpers*), 104
- lexeme_edit_form() (in module *wikibaseintegrator.wbi_helpers*), 105
- lexeme_edit_sense() (in module *wikibaseintegrator.wbi_helpers*), 105
- lexeme_remove_form() (in module *wikibaseintegrator.wbi_helpers*), 105
- lexeme_remove_sense() (in module *wikibaseintegrator.wbi_helpers*), 106
- LexemeEntity (class in *wikibaseintegrator.entities.lexeme*), 59
- lexical_category (*wikibaseintegrator.entities.lexeme.LexemeEntity* property),

- 61
- LEXICAL_CATEGORY (*wikibaseintegrator.wbi_enums.EntityField* attribute), 91
- LocalMedia (class in *wikibaseintegrator.datatypes.extra.localmedia*), 3
- LOCALMEDIA (*wikibaseintegrator.wbi_enums.WikibaseDatatype* attribute), 92
- Login (class in *wikibaseintegrator.wbi_login*), 110
- LoginError, 111
- ## M
- mainsnak (*wikibaseintegrator.datatypes.basedatatype.BaseDataType* property), 7
- mainsnak (*wikibaseintegrator.datatypes.commonsmedia.CommonsMedia* property), 9
- mainsnak (*wikibaseintegrator.datatypes.entityschema.EntitySchema* property), 12
- mainsnak (*wikibaseintegrator.datatypes.externalid.ExternalID* property), 14
- mainsnak (*wikibaseintegrator.datatypes.extra.edtf.EDTF* property), 2
- mainsnak (*wikibaseintegrator.datatypes.extra.localmedia.LocalMedia* property), 4
- mainsnak (*wikibaseintegrator.datatypes.form.Form* property), 16
- mainsnak (*wikibaseintegrator.datatypes.geoshape.GeoShape* property), 19
- mainsnak (*wikibaseintegrator.datatypes.globecoordinate.GlobeCoordinate* property), 22
- mainsnak (*wikibaseintegrator.datatypes.item.Item* property), 24
- mainsnak (*wikibaseintegrator.datatypes.lexeme.Lexeme* property), 27
- mainsnak (*wikibaseintegrator.datatypes.math.Math* property), 29
- mainsnak (*wikibaseintegrator.datatypes.monolingualtext.MonolingualText* property), 31
- mainsnak (*wikibaseintegrator.datatypes.musicalnotation.MusicalNotation* property), 34
- mainsnak (*wikibaseintegrator.datatypes.property.Property* property), 36
- mainsnak (*wikibaseintegrator.datatypes.quantity.Quantity* property), 39
- mainsnak (*wikibaseintegrator.datatypes.sense.Sense* property), 41
- mainsnak (*wikibaseintegrator.datatypes.string.String* property), 43
- mainsnak (*wikibaseintegrator.datatypes.tabulardata.TabularData* property), 46
- mainsnak (*wikibaseintegrator.datatypes.time.Time* property), 49
- mainsnak (*wikibaseintegrator.datatypes.url.URL* property), 51
- mainsnak (*wikibaseintegrator.models.claims.Claim* property), 71
- Math (class in *wikibaseintegrator.datatypes.math*), 28
- MATH (*wikibaseintegrator.wbi_enums.WikibaseDatatype* attribute), 92
- MaxRetriesReachedException, 94
- MediaInfoEntity (class in *wikibaseintegrator.entities.mediainfo*), 62
- mediawiki_api_call() (in module *wikibaseintegrator.wbi_helpers*), 106
- mediawiki_api_call_helper() (in module *wikibaseintegrator.wbi_helpers*), 106
- mediawiki_api_url (*wikibaseintegrator.wbi_login.OAuth1* attribute), 113
- mediawiki_api_url (*wikibaseintegrator.wbi_login.OAuth2* attribute), 114
- merge_items() (in module *wikibaseintegrator.wbi_helpers*), 107
- merge_lexemes() (in module *wikibaseintegrator.wbi_helpers*), 107
- MERGE_REFS_OR_APPEND (*wikibaseintegrator.wbi_enums.ActionIfExists* attribute), 91
- messages (*wikibaseintegrator.wbi_exceptions.ModificationFailed* attribute), 95
- messages (*wikibaseintegrator.wbi_exceptions.MWApiError* attribute), 94
- messages (*wikibaseintegrator.wbi_exceptions.NonExistentEntityError* attribute), 95
- messages (*wikibaseintegrator.wbi_exceptions.SaveFailed* attribute), 96
- messages_names (*wikibaseintegrator.wbi_exceptions.ModificationFailed* attribute), 95
- messages_names (*wikibaseintegrator.wbi_exceptions.MWApiError* attribute), 94
- messages_names (*wikibaseintegrator.wbi_exceptions.ModificationFailed* attribute), 95

tor.wbi_exceptions.NonExistentEntityError
attribute), 95
 messages_names (*wikibaseintegrate-*
tor.wbi_exceptions.SaveFailed *attribute*),
 96
 MILLENNIUM (*wikibaseintegrate-*
tor.wbi_enums.WikibaseTimePrecision *at-*
tribute), 93
 MILLION_YEARS (*wikibaseintegrate-*
tor.wbi_enums.WikibaseTimePrecision *at-*
tribute), 93
 MissingEntityException, 94
 ModificationFailed, 94
 module
 wikibaseintegrator, 115
 wikibaseintegrator.datatypes, 53
 wikibaseintegrator.datatypes.basedatatype,
 6
 wikibaseintegrator.datatypes.commonsmmedia,
 8
 wikibaseintegrator.datatypes.entitieschema,
 10
 wikibaseintegrator.datatypes.externalid,
 13
 wikibaseintegrator.datatypes.extra, 6
 wikibaseintegrator.datatypes.extra.edtf,
 1
 wikibaseintegrator.datatypes.extra.localmedia,
 3
 wikibaseintegrator.datatypes.form, 15
 wikibaseintegrator.datatypes.geoshape, 18
 wikibaseintegrator.datatypes.globecoordinate,
 20
 wikibaseintegrator.datatypes.item, 23
 wikibaseintegrator.datatypes.lexeme, 25
 wikibaseintegrator.datatypes.math, 28
 wikibaseintegrator.datatypes.monolingualtext,
 30
 wikibaseintegrator.datatypes.musicalnotation,
 33
 wikibaseintegrator.datatypes.property, 35
 wikibaseintegrator.datatypes.quantity, 37
 wikibaseintegrator.datatypes.sense, 40
 wikibaseintegrator.datatypes.string, 42
 wikibaseintegrator.datatypes.tabulardata,
 45
 wikibaseintegrator.datatypes.time, 47
 wikibaseintegrator.datatypes.url, 50
 wikibaseintegrator.entities, 68
 wikibaseintegrator.entities.baseentity,
 53
 wikibaseintegrator.entities.item, 55
 wikibaseintegrator.entities.lexeme, 59
 wikibaseintegrator.entities.mediainfo, 62
 wikibaseintegrator.entities.property, 65
 wikibaseintegrator.models, 90
 wikibaseintegrator.models.aliases, 68
 wikibaseintegrator.models.basemodel, 70
 wikibaseintegrator.models.claims, 70
 wikibaseintegrator.models.descriptions,
 74
 wikibaseintegrator.models.forms, 75
 wikibaseintegrator.models.labels, 78
 wikibaseintegrator.models.language_values,
 79
 wikibaseintegrator.models.lemmas, 81
 wikibaseintegrator.models.qualifiers, 82
 wikibaseintegrator.models.references, 83
 wikibaseintegrator.models.senses, 85
 wikibaseintegrator.models.sitelinks, 88
 wikibaseintegrator.models.snaks, 89
 wikibaseintegrator.wbi_backoff, 90
 wikibaseintegrator.wbi_config, 90
 wikibaseintegrator.wbi_enums, 91
 wikibaseintegrator.wbi_exceptions, 93
 wikibaseintegrator.wbi_fastrun, 97
 wikibaseintegrator.wbi_helpers, 100
 wikibaseintegrator.wbi_login, 109
 wikibaseintegrator.wikibaseintegrator,
 114
 MonolingualText (*class in wikibaseintegrate-*
 tor.datatypes.monolingualtext), 30
 MONOLINGUALTEXT (*wikibaseintegrate-*
 tor.wbi_enums.WikibaseDatatype *attribute*),
 92
 MONTH (*wikibaseintegrate-*
 tor.wbi_enums.WikibaseTimePrecision *at-*
 tribute), 93
 MusicalNotation (*class in wikibaseintegrate-*
 tor.datatypes.musicalnotation), 33
 MUSICALNOTATION (*wikibaseintegrate-*
 tor.wbi_enums.WikibaseDatatype *attribute*),
 92
 MWApiError, 93
N
 new() (*wikibaseintegrator.entities.item.ItemEntity*
 method), 58
 new() (*wikibaseintegrator.entities.lexeme.LexemeEntity*
 method), 61
 new() (*wikibaseintegrate-*
 tor.entities.mediainfo.MediaInfoEntity *method*),
 64
 new() (*wikibaseintegrate-*
 tor.entities.property.PropertyEntity *method*),
 68
 NO_VALUE (*wikibaseintegrate-*
 tor.wbi_enums.WikibaseSnakType *attribute*),

- 92
- `NonExistentEntityError`, 95
- `NORMAL` (`wikibaseintegrator.wbi_enums.WikibaseRank` attribute), 92
- ## O
- `OAuth1` (class in `wikibaseintegrator.wbi_login`), 111
- `OAuth2` (class in `wikibaseintegrator.wbi_login`), 113
- `OKBLUE` (`wikibaseintegrator.wbi_helpers.BColors` attribute), 100
- `OKCYAN` (`wikibaseintegrator.wbi_helpers.BColors` attribute), 100
- `OKGREEN` (`wikibaseintegrator.wbi_helpers.BColors` attribute), 100
- ## P
- `pageid` (`wikibaseintegrator.entities.baseentity.BaseEntity` property), 55
- `pageid` (`wikibaseintegrator.entities.item.ItemEntity` property), 58
- `pageid` (`wikibaseintegrator.entities.lexeme.LexemeEntity` property), 61
- `pageid` (`wikibaseintegrator.entities.mediainfo.MediaInfoEntity` property), 64
- `pageid` (`wikibaseintegrator.entities.property.PropertyEntity` property), 68
- `parse_sparql_value()` (`wikibaseintegrator.datatypes.basedatatype.BaseDataType` method), 7
- `parse_sparql_value()` (`wikibaseintegrator.datatypes.commonsmedia.CommonsMedia` method), 9
- `parse_sparql_value()` (`wikibaseintegrator.datatypes.entityschema.EntitySchema` method), 12
- `parse_sparql_value()` (`wikibaseintegrator.datatypes.externalid.ExternalID` method), 14
- `parse_sparql_value()` (`wikibaseintegrator.datatypes.extra.edtf.EDTF` method), 2
- `parse_sparql_value()` (`wikibaseintegrator.datatypes.extra.localmedia.LocalMedia` method), 4
- `parse_sparql_value()` (`wikibaseintegrator.datatypes.form.Form` method), 16
- `parse_sparql_value()` (`wikibaseintegrator.datatypes.geoshape.GeoShape` method), 19
- `parse_sparql_value()` (`wikibaseintegrator.datatypes.globecoordinate.GlobeCoordinate` method), 22
- `parse_sparql_value()` (`wikibaseintegrator.datatypes.item.Item` method), 24
- `parse_sparql_value()` (`wikibaseintegrator.datatypes.lexeme.Lexeme` method), 27
- `parse_sparql_value()` (`wikibaseintegrator.datatypes.math.Math` method), 29
- `parse_sparql_value()` (`wikibaseintegrator.datatypes.monolingualtext.MonolingualText` method), 31
- `parse_sparql_value()` (`wikibaseintegrator.datatypes.musicalnotation.MusicalNotation` method), 34
- `parse_sparql_value()` (`wikibaseintegrator.datatypes.property.Property` method), 36
- `parse_sparql_value()` (`wikibaseintegrator.datatypes.quantity.Quantity` method), 39
- `parse_sparql_value()` (`wikibaseintegrator.datatypes.sense.Sense` method), 41
- `parse_sparql_value()` (`wikibaseintegrator.datatypes.string.String` method), 43
- `parse_sparql_value()` (`wikibaseintegrator.datatypes.tabulardata.TabularData` method), 46
- `parse_sparql_value()` (`wikibaseintegrator.datatypes.time.Time` method), 49
- `parse_sparql_value()` (`wikibaseintegrator.datatypes.url.URL` method), 51
- `PREFERRED` (`wikibaseintegrator.wbi_enums.WikibaseRank` attribute), 92
- `Property` (class in `wikibaseintegrator.datatypes.property`), 35
- `PROPERTY` (`wikibaseintegrator.wbi_enums.WikibaseDatatype` attribute), 92
- `property_number` (`wikibaseintegrator.models.snaks.Snak` property), 89
- `PropertyEntity` (class in `wikibaseintegrator.entities.property`), 65
- ## Q
- `Qualifiers` (class in `wikibaseintegrator.models.qualifiers`), 82
- `qualifiers` (`wikibaseintegrator.datatypes.basedatatype.BaseDataType` property), 7
- `qualifiers` (`wikibaseintegrator.datatypes.commonsmedia.CommonsMedia` property), 9
- `qualifiers` (`wikibaseintegrator.datatypes.entityschema.EntitySchema` property), 12

qualifiers	(<i>wikibaseintegrator.datatypes.externalid.ExternalID</i> property), 14	qualifiers_order	(<i>wikibaseintegrator.datatypes.commonmedia.CommonMedia</i> property), 9
qualifiers	(<i>wikibaseintegrator.datatypes.extra.edtf.EDTF</i> property), 2	qualifiers_order	(<i>wikibaseintegrator.datatypes.entityschema.EntitySchema</i> property), 12
qualifiers	(<i>wikibaseintegrator.datatypes.extra.localmedia.LocalMedia</i> property), 4	qualifiers_order	(<i>wikibaseintegrator.datatypes.externalid.ExternalID</i> property), 14
qualifiers	(<i>wikibaseintegrator.datatypes.form.Form</i> property), 17	qualifiers_order	(<i>wikibaseintegrator.datatypes.extra.edtf.EDTF</i> property), 2
qualifiers	(<i>wikibaseintegrator.datatypes.geoshape.GeoShape</i> property), 19	qualifiers_order	(<i>wikibaseintegrator.datatypes.extra.localmedia.LocalMedia</i> property), 4
qualifiers	(<i>wikibaseintegrator.datatypes.globecoordinate.GlobeCoordinate</i> property), 22	qualifiers_order	(<i>wikibaseintegrator.datatypes.form.Form</i> property), 17
qualifiers	(<i>wikibaseintegrator.datatypes.item.Item</i> property), 24	qualifiers_order	(<i>wikibaseintegrator.datatypes.geoshape.GeoShape</i> property), 19
qualifiers	(<i>wikibaseintegrator.datatypes.lexeme.Lexeme</i> property), 27	qualifiers_order	(<i>wikibaseintegrator.datatypes.globecoordinate.GlobeCoordinate</i> property), 22
qualifiers	(<i>wikibaseintegrator.datatypes.math.Math</i> property), 29	qualifiers_order	(<i>wikibaseintegrator.datatypes.item.Item</i> property), 24
qualifiers	(<i>wikibaseintegrator.datatypes.monolingualtext.MonolingualText</i> property), 31	qualifiers_order	(<i>wikibaseintegrator.datatypes.lexeme.Lexeme</i> property), 27
qualifiers	(<i>wikibaseintegrator.datatypes.musicalnotation.MusicalNotation</i> property), 34	qualifiers_order	(<i>wikibaseintegrator.datatypes.math.Math</i> property), 29
qualifiers	(<i>wikibaseintegrator.datatypes.property.Property</i> property), 36	qualifiers_order	(<i>wikibaseintegrator.datatypes.monolingualtext.MonolingualText</i> property), 31
qualifiers	(<i>wikibaseintegrator.datatypes.quantity.Quantity</i> property), 39	qualifiers_order	(<i>wikibaseintegrator.datatypes.musicalnotation.MusicalNotation</i> property), 34
qualifiers	(<i>wikibaseintegrator.datatypes.sense.Sense</i> property), 41	qualifiers_order	(<i>wikibaseintegrator.datatypes.property.Property</i> property), 36
qualifiers	(<i>wikibaseintegrator.datatypes.string.String</i> property), 43	qualifiers_order	(<i>wikibaseintegrator.datatypes.quantity.Quantity</i> property), 39
qualifiers	(<i>wikibaseintegrator.datatypes.tabulardata.TabularData</i> property), 46	qualifiers_order	(<i>wikibaseintegrator.datatypes.sense.Sense</i> property), 41
qualifiers	(<i>wikibaseintegrator.datatypes.time.Time</i> property), 49	qualifiers_order	(<i>wikibaseintegrator.datatypes.string.String</i> property), 43
qualifiers	(<i>wikibaseintegrator.datatypes.url.URL</i> property), 51	qualifiers_order	(<i>wikibaseintegrator.datatypes.tabulardata.TabularData</i> property), 46
qualifiers	(<i>wikibaseintegrator.models.claims.Claim</i> property), 71	qualifiers_order	(<i>wikibaseintegrator.datatypes.time.Time</i> property), 49
qualifiers	(<i>wikibaseintegrator.models.qualifiers.Qualifiers</i> property), 83	qualifiers_order	(<i>wikibaseintegrator.datatypes.url.URL</i> property), 52
qualifiers_order	(<i>wikibaseintegrator.datatypes.basedatatype.BaseDataType</i> property), 7	qualifiers_order	(<i>wikibaseintegrator.models.claims.Claim</i> property), 71

- `quals_equal()` (*wikibaseintegrator.datatypes.basedatatype.BaseDataType* static method), 7
- `quals_equal()` (*wikibaseintegrator.datatypes.commonsmmedia.CommonsMedia* static method), 9
- `quals_equal()` (*wikibaseintegrator.datatypes.entityschema.EntitySchema* static method), 12
- `quals_equal()` (*wikibaseintegrator.datatypes.externalid.ExternalID* static method), 14
- `quals_equal()` (*wikibaseintegrator.datatypes.extra.edtf.EDTF* static method), 2
- `quals_equal()` (*wikibaseintegrator.datatypes.extra.localmedia.LocalMedia* static method), 5
- `quals_equal()` (*wikibaseintegrator.datatypes.form.Form* static method), 17
- `quals_equal()` (*wikibaseintegrator.datatypes.geoshape.GeoShape* static method), 19
- `quals_equal()` (*wikibaseintegrator.datatypes.globecoordinate.GlobeCoordinate* static method), 22
- `quals_equal()` (*wikibaseintegrator.datatypes.item.Item* static method), 24
- `quals_equal()` (*wikibaseintegrator.datatypes.lexeme.Lexeme* static method), 27
- `quals_equal()` (*wikibaseintegrator.datatypes.math.Math* static method), 29
- `quals_equal()` (*wikibaseintegrator.datatypes.monolingualtext.MonolingualText* static method), 31
- `quals_equal()` (*wikibaseintegrator.datatypes.musicalnotation.MusicalNotation* static method), 34
- `quals_equal()` (*wikibaseintegrator.datatypes.property.Property* static method), 36
- `quals_equal()` (*wikibaseintegrator.datatypes.quantity.Quantity* static method), 39
- `quals_equal()` (*wikibaseintegrator.datatypes.sense.Sense* static method), 41
- `quals_equal()` (*wikibaseintegrator.datatypes.string.String* static method), 44
- `quals_equal()` (*wikibaseintegrator.datatypes.tabulardata.TabularData* static method), 46
- `quals_equal()` (*wikibaseintegrator.datatypes.time.Time* static method), 49
- `quals_equal()` (*wikibaseintegrator.datatypes.url.URL* static method), 52
- `quals_equal()` (*wikibaseintegrator.models.claims.Claim* static method), 72
- `Quantity` (class in *wikibaseintegrator.datatypes.quantity*), 37
- `QUANTITY` (*wikibaseintegrator.wbi_enums.WikibaseDatatype* attribute), 92
- ## R
- `rank` (*wikibaseintegrator.datatypes.basedatatype.BaseDataType* property), 7
- `rank` (*wikibaseintegrator.datatypes.commonsmmedia.CommonsMedia* property), 10
- `rank` (*wikibaseintegrator.datatypes.entityschema.EntitySchema* property), 12
- `rank` (*wikibaseintegrator.datatypes.externalid.ExternalID* property), 14
- `rank` (*wikibaseintegrator.datatypes.extra.edtf.EDTF* property), 2
- `rank` (*wikibaseintegrator.datatypes.extra.localmedia.LocalMedia* property), 5
- `rank` (*wikibaseintegrator.datatypes.form.Form* property), 17
- `rank` (*wikibaseintegrator.datatypes.geoshape.GeoShape* property), 19
- `rank` (*wikibaseintegrator.datatypes.globecoordinate.GlobeCoordinate* property), 22
- `rank` (*wikibaseintegrator.datatypes.item.Item* property), 25
- `rank` (*wikibaseintegrator.datatypes.lexeme.Lexeme* property), 27
- `rank` (*wikibaseintegrator.datatypes.math.Math* property), 29
- `rank` (*wikibaseintegrator.datatypes.monolingualtext.MonolingualText* property), 32
- `rank` (*wikibaseintegrator.datatypes.musicalnotation.MusicalNotation* property), 34
- `rank` (*wikibaseintegrator.datatypes.property.Property* property), 36
- `rank` (*wikibaseintegrator.datatypes.quantity.Quantity* property), 39
- `rank` (*wikibaseintegrator.datatypes.sense.Sense* property), 41
- `rank` (*wikibaseintegrator.datatypes.string.String* property), 44
- `rank` (*wikibaseintegrator.datatypes.tabulardata.TabularData* property), 46

`rank` (*wikibaseintegrator.datatypes.time.Time* property), 49
`rank` (*wikibaseintegrator.datatypes.url.URL* property), 52
`rank` (*wikibaseintegrator.models.claims.Claim* property), 72
`reconstruct_statements()` (*wikibaseintegrator.wbi_fastrun.FastRunContainer* method), 99
`ref_present()` (*wikibaseintegrator.datatypes.basedatatype.BaseDataType* static method), 7
`ref_present()` (*wikibaseintegrator.datatypes.commonsmidia.CommonsMedia* static method), 10
`ref_present()` (*wikibaseintegrator.datatypes.entityschema.EntitySchema* static method), 12
`ref_present()` (*wikibaseintegrator.datatypes.externalid.ExternalID* static method), 14
`ref_present()` (*wikibaseintegrator.datatypes.extra.edtf.EDTF* static method), 2
`ref_present()` (*wikibaseintegrator.datatypes.extra.localmedia.LocalMedia* static method), 5
`ref_present()` (*wikibaseintegrator.datatypes.form.Form* static method), 17
`ref_present()` (*wikibaseintegrator.datatypes.geoshape.GeoShape* static method), 19
`ref_present()` (*wikibaseintegrator.datatypes.globecoordinate.GlobeCoordinate* static method), 22
`ref_present()` (*wikibaseintegrator.datatypes.item.Item* static method), 25
`ref_present()` (*wikibaseintegrator.datatypes.lexeme.Lexeme* static method), 27
`ref_present()` (*wikibaseintegrator.datatypes.math.Math* static method), 29
`ref_present()` (*wikibaseintegrator.datatypes.monolingualtext.MonolingualText* static method), 32
`ref_present()` (*wikibaseintegrator.datatypes.musicalnotation.MusicalNotation* static method), 34
`ref_present()` (*wikibaseintegrator.datatypes.property.Property* static method), 36
`ref_present()` (*wikibaseintegrator.datatypes.quantity.Quantity* static method), 39
`ref_present()` (*wikibaseintegrator.datatypes.sense.Sense* static method), 41
`ref_present()` (*wikibaseintegrator.datatypes.string.String* static method), 44
`ref_present()` (*wikibaseintegrator.datatypes.tabulardata.TabularData* static method), 46
`ref_present()` (*wikibaseintegrator.datatypes.time.Time* static method), 49
`ref_present()` (*wikibaseintegrator.datatypes.url.URL* static method), 52
`ref_present()` (*wikibaseintegrator.models.claims.Claim* static method), 72
`Reference` (class in *wikibaseintegrator.models.references*), 83
`References` (class in *wikibaseintegrator.models.references*), 84
`references` (*wikibaseintegrator.datatypes.basedatatype.BaseDataType* property), 7
`references` (*wikibaseintegrator.datatypes.commonsmidia.CommonsMedia* property), 10
`references` (*wikibaseintegrator.datatypes.entityschema.EntitySchema* property), 12
`references` (*wikibaseintegrator.datatypes.externalid.ExternalID* property), 14
`references` (*wikibaseintegrator.datatypes.extra.edtf.EDTF* property), 3
`references` (*wikibaseintegrator.datatypes.extra.localmedia.LocalMedia* property), 5
`references` (*wikibaseintegrator.datatypes.form.Form* property), 17
`references` (*wikibaseintegrator.datatypes.geoshape.GeoShape* property), 20
`references` (*wikibaseintegrator.datatypes.globecoordinate.GlobeCoordinate* property), 22
`references` (*wikibaseintegrator.datatypes.item.Item* property), 25
`references` (*wikibaseintegrator.datatypes.lexeme.Lexeme* property), 27
`references` (*wikibaseintegrator.datatypes.math.Math* property), 29

tor.datatypes.geoshape.GeoShape method), 20
 remove() (wikibaseintegrator.datatypes.globecoordinate.GlobeCoordinate method), 22
 remove() (wikibaseintegrator.datatypes.item.Item method), 25
 remove() (wikibaseintegrator.datatypes.lexeme.Lexeme method), 27
 remove() (wikibaseintegrator.datatypes.math.Math method), 30
 remove() (wikibaseintegrator.datatypes.monolingualtext.MonolingualText method), 32
 remove() (wikibaseintegrator.datatypes.musicalnotation.MusicalNotation method), 34
 remove() (wikibaseintegrator.datatypes.property.Property method), 37
 remove() (wikibaseintegrator.datatypes.quantity.Quantity method), 39
 remove() (wikibaseintegrator.datatypes.sense.Sense method), 42
 remove() (wikibaseintegrator.datatypes.string.String method), 44
 remove() (wikibaseintegrator.datatypes.tabulardata.TabularData method), 47
 remove() (wikibaseintegrator.datatypes.time.Time method), 50
 remove() (wikibaseintegrator.datatypes.url.URL method), 52
 remove() (wikibaseintegrator.models.alias.Alias method), 69
 remove() (wikibaseintegrator.models.claims.Claim method), 72
 remove() (wikibaseintegrator.models.claims.Claims method), 73
 remove() (wikibaseintegrator.models.language_values.LanguageValue method), 79
 remove() (wikibaseintegrator.models.qualifiers.Qualifiers method), 83
 remove() (wikibaseintegrator.models.references.References method), 85
 remove() (wikibaseintegrator.models.senses.Sense method), 87
 remove_claims() (in module wikibaseintegrator.wbi_helpers), 108
 removed (wikibaseintegrator.datatypes.basedatatype.BaseDataType property), 8
 removed (wikibaseintegrator.datatypes.commonsmmedia.CommonsMedia property), 10
 removed (wikibaseintegrator.datatypes.entityschema.EntitySchema property), 12
 removed (wikibaseintegrator.datatypes.externalid.ExternalID property), 15
 removed (wikibaseintegrator.datatypes.extra.edtf.EDTF property), 3
 removed (wikibaseintegrator.datatypes.extra.localmedia.LocalMedia property), 5
 removed (wikibaseintegrator.datatypes.form.Form property), 17
 removed (wikibaseintegrator.datatypes.geoshape.GeoShape property), 20
 removed (wikibaseintegrator.datatypes.globecoordinate.GlobeCoordinate property), 23
 removed (wikibaseintegrator.datatypes.item.Item property), 25
 removed (wikibaseintegrator.datatypes.lexeme.Lexeme property), 27
 removed (wikibaseintegrator.datatypes.math.Math property), 30
 removed (wikibaseintegrator.datatypes.monolingualtext.MonolingualText property), 32
 removed (wikibaseintegrator.datatypes.musicalnotation.MusicalNotation property), 34
 removed (wikibaseintegrator.datatypes.property.Property property), 37
 removed (wikibaseintegrator.datatypes.quantity.Quantity property), 39
 removed (wikibaseintegrator.datatypes.sense.Sense property), 42
 removed (wikibaseintegrator.datatypes.string.String property), 44
 removed (wikibaseintegrator.datatypes.tabulardata.TabularData property), 47
 removed (wikibaseintegrator.datatypes.time.Time property), 50
 removed (wikibaseintegrator.datatypes.url.URL property), 52
 removed (wikibaseintegrator.models.alias.Alias property), 69

- removed (*wikibaseintegrator.models.claims.Claim property*), 72
- removed (*wikibaseintegrator.models.language_values.LanguageValue property*), 79
- REPLACE_ALL (*wikibaseintegrator.wbi_enums.ActionIfExists attribute*), 91
- Representations (*class in wikibaseintegrator.models.forms*), 76
- representations (*wikibaseintegrator.models.forms.Form property*), 76
- reset_id() (*wikibaseintegrator.datatypes.basedatatype.BaseDataType method*), 8
- reset_id() (*wikibaseintegrator.datatypes.commonsmmedia.CommonsMedia method*), 10
- reset_id() (*wikibaseintegrator.datatypes.entityschema.EntitySchema method*), 12
- reset_id() (*wikibaseintegrator.datatypes.externalid.ExternalID method*), 15
- reset_id() (*wikibaseintegrator.datatypes.extra.edtf.EDTF method*), 3
- reset_id() (*wikibaseintegrator.datatypes.extra.localmedia.LocalMedia method*), 5
- reset_id() (*wikibaseintegrator.datatypes.form.Form method*), 17
- reset_id() (*wikibaseintegrator.datatypes.geoshape.GeoShape method*), 20
- reset_id() (*wikibaseintegrator.datatypes.globecoordinate.GlobeCoordinate method*), 23
- reset_id() (*wikibaseintegrator.datatypes.item.Item method*), 25
- reset_id() (*wikibaseintegrator.datatypes.lexeme.Lexeme method*), 27
- reset_id() (*wikibaseintegrator.datatypes.math.Math method*), 30
- reset_id() (*wikibaseintegrator.datatypes.monolingualtext.MonolingualText method*), 32
- reset_id() (*wikibaseintegrator.datatypes.musicalnotation.MusicalNotation method*), 34
- reset_id() (*wikibaseintegrator.datatypes.property.Property method*), 37
- reset_id() (*wikibaseintegrator.datatypes.quantity.Quantity method*), 39
- reset_id() (*wikibaseintegrator.datatypes.sense.Sense method*), 42
- reset_id() (*wikibaseintegrator.datatypes.string.String method*), 44
- reset_id() (*wikibaseintegrator.datatypes.tabulardata.TabularData method*), 47
- reset_id() (*wikibaseintegrator.datatypes.time.Time method*), 50
- reset_id() (*wikibaseintegrator.datatypes.url.URL method*), 52
- reset_id() (*wikibaseintegrator.models.claims.Claim method*), 72
- ## S
- SaveFailed, 96
- search_entities() (*in module wikibaseintegrator.wbi_helpers*), 108
- SearchError, 96
- Sense (*class in wikibaseintegrator.datatypes.sense*), 40
- Sense (*class in wikibaseintegrator.models.senses*), 86
- SENSE (*wikibaseintegrator.wbi_enums.WikibaseDatatype attribute*), 92
- Senses (*class in wikibaseintegrator.models.senses*), 87
- senses (*wikibaseintegrator.entities.lexeme.LexemeEntity property*), 61
- SENSES (*wikibaseintegrator.wbi_enums.EntityField attribute*), 91
- session (*wikibaseintegrator.wbi_login.OAuth1 attribute*), 113
- session (*wikibaseintegrator.wbi_login.OAuth2 attribute*), 114
- set() (*wikibaseintegrator.models.alias.Aliases method*), 70
- set() (*wikibaseintegrator.models.descriptions.Descriptions method*), 74
- set() (*wikibaseintegrator.models.forms.Representations method*), 77
- set() (*wikibaseintegrator.models.labels.Labels method*), 78
- set() (*wikibaseintegrator.models.language_values.LanguageValues method*), 80
- set() (*wikibaseintegrator.models.lemmas.Lemmas method*), 82
- set() (*wikibaseintegrator.models.qualifiers.Qualifiers method*), 83
- set() (*wikibaseintegrator.models.senses.Glosses method*), 86
- set() (*wikibaseintegrator.models.sitelinks.Sitelinks method*), 88

- `set_value()` (*wikibaseintegrator.datatypes.basedatatype.BaseDataType* method), 8
`set_value()` (*wikibaseintegrator.datatypes.commonsmmedia.CommonsMedia* method), 10
`set_value()` (*wikibaseintegrator.datatypes.entityschema.EntitySchema* method), 12
`set_value()` (*wikibaseintegrator.datatypes.externalid.ExternalID* method), 15
`set_value()` (*wikibaseintegrator.datatypes.extra.edtf.EDTF* method), 3
`set_value()` (*wikibaseintegrator.datatypes.extra.localmedia.LocalMedia* method), 5
`set_value()` (*wikibaseintegrator.datatypes.form.Form* method), 17
`set_value()` (*wikibaseintegrator.datatypes.geoshape.GeoShape* method), 20
`set_value()` (*wikibaseintegrator.datatypes.globecoordinate.GlobeCoordinate* method), 23
`set_value()` (*wikibaseintegrator.datatypes.item.Item* method), 25
`set_value()` (*wikibaseintegrator.datatypes.lexeme.Lexeme* method), 27
`set_value()` (*wikibaseintegrator.datatypes.math.Math* method), 30
`set_value()` (*wikibaseintegrator.datatypes.monolingualtext.MonolingualText* method), 32
`set_value()` (*wikibaseintegrator.datatypes.musicalnotation.MusicalNotation* method), 35
`set_value()` (*wikibaseintegrator.datatypes.property.Property* method), 37
`set_value()` (*wikibaseintegrator.datatypes.quantity.Quantity* method), 39
`set_value()` (*wikibaseintegrator.datatypes.sense.Sense* method), 42
`set_value()` (*wikibaseintegrator.datatypes.string.String* method), 44
`set_value()` (*wikibaseintegrator.datatypes.tabulardata.TabularData* method), 47
`set_value()` (*wikibaseintegrator.datatypes.time.Time* method), 50
`set_value()` (*wikibaseintegrator.datatypes.url.URL* method), 52
`Sitelink` (*class in wikibaseintegrator.models.sitelinks*), 88
`Sitelinks` (*class in wikibaseintegrator.models.sitelinks*), 88
`sitelinks` (*wikibaseintegrator.entities.item.ItemEntity* property), 58
`SITELINKS` (*wikibaseintegrator.wbi_enums.EntityField* attribute), 91
`Snak` (*class in wikibaseintegrator.models.snaks*), 89
`Snaks` (*class in wikibaseintegrator.models.snaks*), 89
`snaks` (*wikibaseintegrator.models.references.Reference* property), 84
`snaks_order` (*wikibaseintegrator.models.references.Reference* property), 84
`snaktype` (*wikibaseintegrator.models.snaks.Snak* property), 89
`String` (*class in wikibaseintegrator.datatypes.string*), 42
`STRING` (*wikibaseintegrator.wbi_enums.WikibaseDatatype* attribute), 92
T
`TabularData` (*class in wikibaseintegrator.datatypes.tabulardata*), 45
`TABULARDATA` (*wikibaseintegrator.wbi_enums.WikibaseDatatype* attribute), 92
`TEN_MILLION_YEARS` (*wikibaseintegrator.wbi_enums.WikibaseTimePrecision* attribute), 93
`TEN_THOUSAND_YEARS` (*wikibaseintegrator.wbi_enums.WikibaseTimePrecision* attribute), 93
`Time` (*class in wikibaseintegrator.datatypes.time*), 47
`TIME` (*wikibaseintegrator.wbi_enums.WikibaseDatatype* attribute), 92
`title` (*wikibaseintegrator.entities.baseentity.BaseEntity* property), 55
`title` (*wikibaseintegrator.entities.item.ItemEntity* property), 58
`title` (*wikibaseintegrator.entities.lexeme.LexemeEntity* property), 61
`title` (*wikibaseintegrator.entities.mediainfo.MediaInfoEntity* property), 65
`title` (*wikibaseintegrator.entities.property.PropertyEntity* property), 68
`token_renew_period` (*wikibaseintegrator.wbi_login.OAuth1* attribute), 113
`token_renew_period` (*wikibaseintegrator.wbi_login.OAuth2* attribute), 114

type (<i>wikibaseintegrator.datatypes.basedatatype.BaseDataType</i> property), 8	<u>update()</u> (<i>wikibaseintegrator.wbi_helpers.BColors</i> attribute), 100
type (<i>wikibaseintegrator.datatypes.commonsmedia.CommonsMedia</i> property), 10	UNKNOWN_VALUE (<i>wikibaseintegrator.wbi_enums.WikibaseSnakType</i> attribute), 92
type (<i>wikibaseintegrator.datatypes.entityschema.EntitySchema</i> property), 13	<u>update()</u> (<i>wikibaseintegrator.datatypes.basedatatype.BaseDataType</i> method), 8
type (<i>wikibaseintegrator.datatypes.externalid.ExternalID</i> property), 15	<u>update()</u> (<i>wikibaseintegrator.datatypes.commonsmedia.CommonsMedia</i> method), 10
type (<i>wikibaseintegrator.datatypes.extra.edtf.EDTF</i> property), 3	<u>update()</u> (<i>wikibaseintegrator.datatypes.entityschema.EntitySchema</i> method), 13
type (<i>wikibaseintegrator.datatypes.extra.localmedia.LocalMedia</i> property), 5	<u>update()</u> (<i>wikibaseintegrator.datatypes.externalid.ExternalID</i> method), 15
type (<i>wikibaseintegrator.datatypes.form.Form</i> property), 17	<u>update()</u> (<i>wikibaseintegrator.datatypes.extra.edtf.EDTF</i> method), 3
type (<i>wikibaseintegrator.datatypes.geoshape.GeoShape</i> property), 20	<u>update()</u> (<i>wikibaseintegrator.datatypes.extra.localmedia.LocalMedia</i> method), 5
type (<i>wikibaseintegrator.datatypes.globecoordinate.GlobeCoordinate</i> property), 23	<u>update()</u> (<i>wikibaseintegrator.datatypes.form.Form</i> method), 18
type (<i>wikibaseintegrator.datatypes.item.Item</i> property), 25	<u>update()</u> (<i>wikibaseintegrator.datatypes.geoshape.GeoShape</i> method), 20
type (<i>wikibaseintegrator.datatypes.lexeme.Lexeme</i> property), 28	<u>update()</u> (<i>wikibaseintegrator.datatypes.globecoordinate.GlobeCoordinate</i> method), 23
type (<i>wikibaseintegrator.datatypes.math.Math</i> property), 30	<u>update()</u> (<i>wikibaseintegrator.datatypes.item.Item</i> method), 25
type (<i>wikibaseintegrator.datatypes.monolingualtext.MonolingualText</i> property), 32	<u>update()</u> (<i>wikibaseintegrator.datatypes.lexeme.Lexeme</i> method), 28
type (<i>wikibaseintegrator.datatypes.musicalnotation.MusicalNotation</i> property), 35	<u>update()</u> (<i>wikibaseintegrator.datatypes.math.Math</i> method), 30
type (<i>wikibaseintegrator.datatypes.property.Property</i> property), 37	<u>update()</u> (<i>wikibaseintegrator.datatypes.monolingualtext.MonolingualText</i> method), 32
type (<i>wikibaseintegrator.datatypes.quantity.Quantity</i> property), 40	<u>update()</u> (<i>wikibaseintegrator.datatypes.url.URL</i> property), 52
type (<i>wikibaseintegrator.datatypes.sense.Sense</i> property), 42	<u>update()</u> (<i>wikibaseintegrator.datatypes.musicalnotation.MusicalNotation</i> method), 35
type (<i>wikibaseintegrator.datatypes.string.String</i> property), 44	<u>update()</u> (<i>wikibaseintegrator.datatypes.property.Property</i> method), 37
type (<i>wikibaseintegrator.datatypes.tabulardata.TabularData</i> property), 47	<u>update()</u> (<i>wikibaseintegrator.datatypes.quantity.Quantity</i> method), 40
type (<i>wikibaseintegrator.datatypes.time.Time</i> property), 50	<u>update()</u> (<i>wikibaseintegrator.datatypes.sense.Sense</i> method), 42
type (<i>wikibaseintegrator.datatypes.url.URL</i> property), 52	<u>update()</u> (<i>wikibaseintegrator.datatypes.string.String</i> method), 44
type (<i>wikibaseintegrator.entities.baseentity.BaseEntity</i> property), 55	<u>update()</u> (<i>wikibaseintegrator.entities.mediainfo.MediaInfoEntity</i> property), 65
type (<i>wikibaseintegrator.entities.item.ItemEntity</i> property), 58	<u>update()</u> (<i>wikibaseintegrator.entities.property.PropertyEntity</i> property), 68
type (<i>wikibaseintegrator.entities.lexeme.LexemeEntity</i> property), 61	<u>update()</u> (<i>wikibaseintegrator.models.claims.Claim</i> property), 72
type (<i>wikibaseintegrator.entities.mediainfo.MediaInfoEntity</i> property), 65	
type (<i>wikibaseintegrator.entities.property.PropertyEntity</i> property), 68	
type (<i>wikibaseintegrator.models.claims.Claim</i> property), 72	

tor.datatypes.tabulardata.TabularData method), 47

`update()` (*wikibaseintegrator.datatypes.time.Time* method), 50

`update()` (*wikibaseintegrator.datatypes.url.URL* method), 52

`update()` (*wikibaseintegrator.models.claims.Claim* method), 72

`update_frc_from_query()` (*wikibaseintegrator.wbi_fastrun.FastRunContainer* method), 99

`URL` (class in *wikibaseintegrator.datatypes.url*), 50

`URL` (*wikibaseintegrator.wbi_enums.WikibaseDatatype* attribute), 92

V

`value` (*wikibaseintegrator.models.aliases.Alias* property), 69

`value` (*wikibaseintegrator.models.language_values.LanguageValue* property), 79

`values` (*wikibaseintegrator.models.descriptions.Descriptions* property), 75

`values` (*wikibaseintegrator.models.forms.Representations* property), 77

`values` (*wikibaseintegrator.models.labels.Labels* property), 79

`values` (*wikibaseintegrator.models.language_values.LanguageValues* property), 81

`values` (*wikibaseintegrator.models.lemmas.Lemmas* property), 82

`values` (*wikibaseintegrator.models.senses.Glosses* property), 86

W

`WARNING` (*wikibaseintegrator.wbi_helpers.BColors* attribute), 100

`wbi_backoff_backoff_hdlr()` (in module *wikibaseintegrator.wbi_backoff*), 90

`wbi_backoff_check_json_decode_error()` (in module *wikibaseintegrator.wbi_backoff*), 90

`wbi_get_backoff_max_tries()` (in module *wikibaseintegrator.wbi_backoff*), 90

`WikibaseDatatype` (class in *wikibaseintegrator.wbi_enums*), 91

`wikibaseintegrator` module, 115

`WikibaseIntegrator` (class in *wikibaseintegrator.wikibaseintegrator*), 114

`wikibaseintegrator.datatypes` module, 53

`wikibaseintegrator.datatypes.basedatatype` module, 6

`wikibaseintegrator.datatypes.commonsmmedia` module, 8

`wikibaseintegrator.datatypes.entitieschema` module, 10

`wikibaseintegrator.datatypes.externalid` module, 13

`wikibaseintegrator.datatypes.extra` module, 6

`wikibaseintegrator.datatypes.extra.edtf` module, 1

`wikibaseintegrator.datatypes.extra.localmedia` module, 3

`wikibaseintegrator.datatypes.form` module, 15

`wikibaseintegrator.datatypes.geoshape` module, 18

`wikibaseintegrator.datatypes.globecoordinate` module, 20

`wikibaseintegrator.datatypes.item` module, 23

`wikibaseintegrator.datatypes.lexeme` module, 25

`wikibaseintegrator.datatypes.math` module, 28

`wikibaseintegrator.datatypes.monolingualtext` module, 30

`wikibaseintegrator.datatypes.musicalnotation` module, 33

`wikibaseintegrator.datatypes.property` module, 35

`wikibaseintegrator.datatypes.quantity` module, 37

`wikibaseintegrator.datatypes.sense` module, 40

`wikibaseintegrator.datatypes.string` module, 42

`wikibaseintegrator.datatypes.tabulardata` module, 45

`wikibaseintegrator.datatypes.time` module, 47

`wikibaseintegrator.datatypes.url` module, 50

`wikibaseintegrator.entities` module, 68

`wikibaseintegrator.entities.baseentity` module, 53

`wikibaseintegrator.entities.item` module, 55

`wikibaseintegrator.entities.lexeme` module, 59

`wikibaseintegrator.entities.mediainfo` module, 62

wikibaseintegrator.entities.property
 module, 65

wikibaseintegrator.models
 module, 90

wikibaseintegrator.models.aliases
 module, 68

wikibaseintegrator.models.basemodel
 module, 70

wikibaseintegrator.models.claims
 module, 70

wikibaseintegrator.models.descriptions
 module, 74

wikibaseintegrator.models.forms
 module, 75

wikibaseintegrator.models.labels
 module, 78

wikibaseintegrator.models.language_values
 module, 79

wikibaseintegrator.models.lemmas
 module, 81

wikibaseintegrator.models.qualifiers
 module, 82

wikibaseintegrator.models.references
 module, 83

wikibaseintegrator.models.senses
 module, 85

wikibaseintegrator.models.sitelinks
 module, 88

wikibaseintegrator.models.snaks
 module, 89

wikibaseintegrator.wbi_backoff
 module, 90

wikibaseintegrator.wbi_config
 module, 90

wikibaseintegrator.wbi_enums
 module, 91

wikibaseintegrator.wbi_exceptions
 module, 93

wikibaseintegrator.wbi_fastrun
 module, 97

wikibaseintegrator.wbi_helpers
 module, 100

wikibaseintegrator.wbi_login
 module, 109

wikibaseintegrator.wikibaseintegrator
 module, 114

WikibaseRank (class in wikibaseintegrator.wbi_enums),
 92

WikibaseSnakType (class in wikibaseintegra-
 tor.wbi_enums), 92

WikibaseTimePrecision (class in wikibaseintegra-
 tor.wbi_enums), 92

with_traceback() (wikibaseintegra-
 tor.wbi_exceptions.MaxRetriesReachedException
 method), 94

with_traceback() (wikibaseintegra-
 tor.wbi_exceptions.MissingEntityException
 method), 94

with_traceback() (wikibaseintegra-
 tor.wbi_exceptions.ModificationFailed
 method), 95

with_traceback() (wikibaseintegra-
 tor.wbi_exceptions.MWApiError method),
 94

with_traceback() (wikibaseintegra-
 tor.wbi_exceptions.NonExistentEntityError
 method), 95

with_traceback() (wikibaseintegra-
 tor.wbi_exceptions.SaveFailed method),
 96

with_traceback() (wikibaseintegra-
 tor.wbi_exceptions.SearchError method),
 96

with_traceback() (wikibaseintegra-
 tor.wbi_login.LoginError method), 111

write() (wikibaseintegrator.entities.item.ItemEntity
 method), 58

write() (wikibaseintegra-
 tor.entities.lexeme.LexemeEntity method),
 61

write() (wikibaseintegra-
 tor.entities.mediainfo.MediaInfoEntity method),
 65

write() (wikibaseintegra-
 tor.entities.property.PropertyEntity method),
 68

write_required() (wikibaseintegra-
 tor.entities.baseentity.BaseEntity method),
 55

write_required() (wikibaseintegra-
 tor.entities.item.ItemEntity method), 58

write_required() (wikibaseintegra-
 tor.entities.lexeme.LexemeEntity method),
 62

write_required() (wikibaseintegra-
 tor.entities.mediainfo.MediaInfoEntity method),
 65

write_required() (wikibaseintegra-
 tor.entities.property.PropertyEntity method),
 68

write_required() (wikibaseintegra-
 tor.wbi_fastrun.FastRunContainer method),
 99

Y

YEAR (wikibaseintegrator.wbi_enums.WikibaseTimePrecision
 attribute), 93