yadm

Release 1.0.5

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Contents

It's small and simple ODM for use with MongoDB.

CHAPTER 1

Quick start

```python
import pymongo
from yadm import Database, Document, fields


# Create model
class BlogPost(Document):
    __collection__ = 'blog_posts'

    title = fields.StringField()
    body = fields.StringField()


# Create post
post = BlogPost()
post.title = 'Small post'
post.body = 'Bla-bla-bla...'

# Connect to database
client = pymongo.MongoClient("localhost", 27017)
db = Database(client, 'test')

# Insert post to database
db.insert(post)

# Query posts
qs = db.get_queryset(BlogPost).find({'title': {'$regex': '^s.*'}})
assert qs.count() > 0

for post in qs:
    assert post.title.startswith('s')

# Query one post
post = db.get_queryset(BlogPost).find_one({'title': 'Small post'})

# Change post
post.title = 'Bla-bla-bla title'

# Save changed post
db.save(post)
```

1.1 CHANGES

1.1.1 1.0 (2015-11-14)

- **Change document structure. No more bad *BaseDocument.__data__* attribute:**
  - *BaseDocument.__raw__*: raw data from mongo;
  - *BaseDocument.__cache__*: cached objects, casted with fields;
  - *BaseDocument.__changed__*: changed objects.
- **Changes api for custom fields:**
  - Not more need create field descriptors for every field;
  - *prepare_value* called only for setattr;
  - *to_mongo* called only for save objects to mongo;
  - *from_mongo* called only for load values from *BaseDocument.__raw__*;
  - Remove *Field.default* attribute. Use *Field.get_default* method;
  - Add *get_if_not_loaded* and *get_if_attribute_not_set* method;
  - By default raise *NotLoadedError* if field not loaded from projection;
- **Changes in *ReferenceField*:**
  - Raise *BrokenReference* if link is bloken;
  - Raise *NotBindingToDatabase* if document not saved to database;
- *smart_null* keyword for *Field*;
- Fields in document must be instances (not classes!);
- Remove *ArrayContainer* and *ArrayContainerField*;
- Remove old *MapIntKeysField* and *MapObjectIdKeysField*. Use new *MapCustomKeysField*;
- Add *Database.update_one* method for run simple update query with specified document;
- Add *QuerySet.distinct*;
- *serialize.from_mongo* now accept *not_loaded* sequence with filed names who must mark as not loaded, *parent* and *name*;
- *serialize.to_mongo* do not call *FieldDescriptor.__set__*;
- Fakers! Subsystem for generate test objects;
- Tests now use pytest;
- And more, and more...

CHAPTER 2

API documentation

2.1 API

API documentation

2.1.1 Database

This module for provide work with MongoDB database.

```
import pymongo
from yadm.database import Database

from mydocs import Doc

client = pymongo.MongoClient("localhost", 27017)
db = Database(self.client, 'test')

doc = Doc()
db.insert(doc)

doc.arg = 13
db.save(doc)

qs = db.get_queryset(Doc).find({'arg': {'$gt': 10}})
for doc in qs:
    print(doc)
```

class yadm.database.**Database**(*client*, *name*)

Main object who provide work with database

Parameters

- **client** (*pymongo.Client*) – database connection
- **name** (*str*) – database name

bulk(*document_class*, *ordered=False*, *raise_on_errors=True*)

Return Bulk

Parameters

- **document_class** (MetaDocument) – class of documents fo bulk
- **ordered** (*bool*) – create ordered bulk (default *False*)

- **raise_on_errors** (*bool*) – raise BulkWriteError exception if write errors (default *True*)

Context manager:

with db.bulk(Doc) as bulk: bulk.insert(doc_1) bulk.insert(doc_2)

get_queryset (*document_class*)
Return queryset for document class

Parameters **document_class** – *yadm.documents.Document*

This create instance of *yadm.queryset.QuerySet* with presetted document's collection information.

insert (*document*)
Insert document to database

Parameters **document** (Document) – document instance for insert to database

It's bind new document to database set *_id*.

reload (*document*, *new_instance=False*)
Reload document

Parameters

- **document** (Document) – instance for reload
- **new_instance** (*bool*) – if *True* return new instance of document, else change data in given document (default: *False*)

remove (*document*)
Remove document from database

Parameters **document** (Document) – instance for remove from database

save (*document*, *full=False*, *upsert=False*)
Save document to database

Parameters

- **document** (Document) – document instance for save
- **full** (*bool*) – fully resave document (default: *False*)
- **upsert** (*bool*) – see documentation for MongoDB's *update* (default: *False*)

If document has no *_id* *insert* new document.

update_one (*document*, *reload=True*, *, *set=None*, *unset=None*, *inc=None*, *push=None*, *pull=None*)
Update one document

Parameters

- **document** (Document) – document instance for update
- **reload** (*bool*) – if True, reload document

2.1.2 Documents

Basic documents classes for build models.

```
class User(Document):
    __collection__ = 'users'

    first_name = fields.StringField()
    last_name = fields.StringField()
    age = fields.IntegerField()
```

All fields placed in *yadm.fields* package.

class yadm.documents.**MetaDocument**(*cls*, *name*, *bases*, *cls_dict*)
Metaclass for documents

class yadm.documents.**BaseDocument**(***kwargs*)
Base class for all documents

__raw__
Dict with raw data from mongo

__cache__
Dict with cached objects, casted with fields

__changed__
Dict with changed objects

__data__
Deprecated! For backward compatibility only!

Old way to storing data in documents. Now equal to *__raw__*.

__debug_print__()
Print debug information

__fake__(*values*, *faker*, *depth*)
Fake data customizer

class yadm.documents.**Document**(***kwargs*)
Class for build first level documents

__collection__
Name of MongoDB collection

_id
Mongo object id (bson.ObjectId)

id
Alias for *_id* for simply use

__db__
Internal attribute contain instance of *yadm.database.Database* for realize yadm.fields.references.ReferenceField. It bind in *yadm.database.Database* or *yadm.queryset.QuerySet*.

class yadm.documents.**DocumentItemMixin**
Mixin for custom all fields values, such as *EmbeddedDocument*, *yadm.fields.containers.Container*

__parent__
Parent object.

```
        assert doc.embedded_doc.__parent__ is doc
        assert doc.list[13].__parent__ is doc.list
```

__name__

```
assert doc.list.__name__ == 'list'
assert doc.list[13].__name__ == 13
```

__db__
Database object

```
assert doc.f.l[0].__db__ is doc.__db__
```

__document__
Root document

```
assert doc.f.l[0].__document__ is doc
```

__field_name__
Dotted field name for MongoDB opperations, like as $set, $push and other...

```
assert doc.f.l[0].__field_name__ == 'f.l.0'
```

__get_value__(*document*)
Get value from document with path to self

__path__
Path to root generator

```
assert list(doc.f.l[0].__path__) == [doc.f.l[0], doc.f.l, doc.f]
```

__path_names__
Path to root generator

```
assert list(doc.f.l[0].__path__) == [0, 'l', 'f']
```

__weakref__
list of weak references to the object (if defined)

class yadm.documents.**EmbeddedDocument**(***kwargs*)
Class for build embedded documents

2.1.3 Serializers and deserializers

Functions for serialize and deserialize data.

yadm.serialize.**from_mongo**(*document_class*, *data*, *not_loaded=()*, *parent=None*, *name=None*)
Deserialize MongoDB data to document

Parameters

- **document_class** – document class
- **data** (*dict*) – data from MongoDB
- **not_loaded** (list) – fields, who marked as not loaded
- **parent** – parent for new document
- **name** (*str*) – name for new document

yadm.serialize.**to_mongo**(*document*, *exclude=()*, *include=None*)
Serialize document to MongoDB data

Parameters

- **document** (BaseDocument) – document for serializing
- **exclude** (list) – exclude fields
- **include** (list) – include only fields (all by default)

2.1.4 Queryset

class yadm.queryset.**QuerySet**(*db*, *document_class*)

Query builder

bulk()

Return map {id: object}

Returns dict

copy(**args*, ***kwargs*)

Copy queryset and update it

Parameters

- **criteria** (*dict*) –
- **projection** (*dict*) –
- **sort** (*dict*) –

Returns new *yadm.queryset.QuerySet* object

count()

Count documents in queryset

Returns int

distinct(*field*)

Distinct query

Parameters **field** (*str*) – field for distinct

Returns list with result data

fields(**fields*)

Get only setted fields

Update projection with fields.

Parameters **fields** (*str*) –

Returns new *yadm.queryset.QuerySet*

```
qs('field', 'field2')
```

fields_all()

Clear projection

find(*criteria=None*, *projection=None*)

Return queryset copy with new criteria and projection

Parameters

- **criteria** (*dict*) – update queryset's criteria
- **projection** (*dict*) – update queryset's projection

Returns new *yadm.queryset.QuerySet*

```
qs({'field': {'$gt': 3}}, {'field': True})
```

find_and_modify(*update=None*, *upsert=False*, *full_response=False*, *new=False*, ***kwargs*)
Execute *$findAndModify* query

Parameters

- **update** (*dict*) – see second argument to update()
- **upsert** (*bool*) – insert if object doesn't exist *(default False)*
- **full_response** (*bool*) – return the entire response object from the server *(default False)*
- **new** – return updated rather than original object *(default False)*
- **kwargs** – any other options the findAndModify command supports can be passed here

Returns *yadm.documents.Document* or **None**

find_one(*criteria=None*, *projection=None*)
Find and return only one document

Parameters

- **criteria** (*dict*) – update queryset's criteria
- **projection** (*dict*) – update queryset's projection

Returns *yadm.documents.Document* or **None**

```
qs({'field': {'$gt': 3}}, {'field': True})
```

join(**field_names*)
Create *yadm.Join* object, join *field_names* and return it

Parameters **fiels_names** (*str*) – fields for join

Returns new *yadm.join.Join*

Next algorithm for join:

1. Get all documents from queryset;
2. Aggegate all ids from requested fields;
3. Make *$in* queries for get joined documents;
4. Bind joined documents to objects from first queryset;

Join object is instance of *abc.Sequence*.

remove()
Remove documents in queryset

sort(**sort*)
Sort query

Parameters **sort** (*tuples*) – tuples with two items: *('field_name', sort_order_as_int)*.

```
qs.sort(('field_1', 1), ('field_2', -1))
```

update(*update*, *multi=True*)
Update documents in queryset

Parameters

- **update** (*dict*) – update query
- **multi** (*bool*) – update all matched documents *(default True)*

Returns update result

with_id(*_id*)
Find document with id

Parameters **_id** – id of searching document

Returns *yadm.documents.Document* or **None**

2.1.5 Bulk queries

class yadm.bulk.**Bulk**(*db*, *document_class*, *ordered=False*, *raise_on_errors=True*)
Bulk object

Parameters

- **db** (Database) – Database instance
- **document_class** (MetaDocument) – document class for collection
- **ordered** (*bool*) – create ordered bulk (default *False*)
- **raise_on_errors** (*bool*) – raise BulkWriteError exception if write errors (default *True*)

Context manager example:

with db.bulk(Doc) as bulk: bulk.insert(doc_1) bulk.insert(doc_2)

execute()
Execute the bulk query

Returns *BulkResult* instance

insert(*document*)
Add insert document to bulk

Parameters **document** (Document) – document for insert

> **Warning:** This unlike *Database.insert*! Currently, it is not bind objects to database and set id.

class yadm.bulk.**BulkResult**(*bulk*, *raw*)
Object who provide result of *Bulk.execute()*

n_inserted
Provide *nInserted* from raw result

n_modified
Provide *nModified* from raw result

n_removed
Provide *nRemoved* from raw result

n_upserted
Provide *nUpserted* from raw result

write_errors
Provide *writeErrors* from raw result

2.1.6 Join

class yadm.join.**Join**(*qs*)
Helper for build client-side joins

```
# Doc.ref is instance of ReferenceField
qs = db(Doc).find({'k': 1})  # queryset filter
join = qs.join('ref')  # create join query in this place
for doc in join:
    print(doc.ref)  # do not create query to database
```

get_queryset(*field_name*)
Return queryset for joined objects

join(**field_names*)
Do manual join

2.1.7 Fields

This package contain all fields.

Base fields

Base classes for build database fields.

class yadm.fields.base.**NotLoadedError**
Raise if value marked as not loaded

```
doc = db(Doc).fields('a').find_one()
try:
    doc.b
except NotLoadedError:
    print("raised!")
```

class yadm.fields.base.**FieldDescriptor**(*name*, *field*)
Base desctiptor for fields

name

Name of field

field

Field instance for this desctiptor

__delete__(*instance*)
Mark document's key as not set

__get__(*instance*, *owner*)
Get python value from document

1.Lookup in __changed__;

2.Lookup in __cache__;

3.Lookup in __raw__:

•if AttributeNotSet – call Field.get_if_attribute_not_set;

•if NotLoaded – call Field.get_if_not_loaded;

- call Field.from_mongo;
- set __name__ and __parent__
- save to __cache__

4. Call Field.get_default;
5. If AttributeNotSet – call Field.get_if_attribute_not_set;
6. Return value.

__set__(*instance*, *value*)
Set value to document

1. Call Field.prepare_value for cast value;
2. Save in Document.__changed__;
3. Call Field.set_parent_changed.

class yadm.fields.base.**Field**(*smart_null=False*)
Base field for all database fields

Parameters **smart_null** (*bool*) – If it *True*, access to not exists fields return *None* instead *AttributeError* exception. You will not be able to distinguish null value from not exist. Use with care.

descriptor_class
Class of desctiptor for work with field

document_class
Class of document. Set in *contribute_to_class()*.

name
Name of field in document. Set in *contribute_to_class()*.

contribute_to_class(*document_class*, *name*)
Add field for document_class

Parameters **document_class** (MetaDocument) – document class for add

copy()
Return copy of field

descriptor_class
alias of *FieldDescriptor*

from_mongo(*document*, *value*)
Convert mongo value to python value

Parameters

- **document** (BaseDocument) – document
- **value** – mongo value

Returns python value

get_default(*document*)
Return default value

get_fake(*document*, *faker*, *deep*)
Return fake data for testing

get_if_attribute_not_set(*document*)
Call if key not exist in document

get_if_not_loaded(*document*)
Call if field data marked as not loaded

prepare_value(*document*, *value*)

The method is called when value is assigned for the attribute

Parameters

- **document** (BaseDocument) – document
- **value** – raw value

Returns prepared value

It must be accept *value* argument and return processed (e.g. casted) analog. Also it is called once for the default value.

to_mongo(*document*, *value*)
Convert python value to mongo value

Parameters

- **document** (BaseDocument) – document
- **value** – python value

Returns mongo value

Simple fields

Fields for basic data types.

class yadm.fields.simple.**BooleanField**(*default=<class 'yadm.markers.AttributeNotSet'>*, ***, *choices=None*, ***kwargs*)
Field for boolean values

type
alias of bool

class yadm.fields.simple.**FloatField**(*default=<class 'yadm.markers.AttributeNotSet'>*, ***, *choices=None*, ***kwargs*)
Field for float

type
alias of float

class yadm.fields.simple.**IntegerField**(*default=<class 'yadm.markers.AttributeNotSet'>*, ***, *choices=None*, ***kwargs*)
Field for integer

type
alias of int

class yadm.fields.simple.**ObjectIdField**(*default_gen=False*)
Field for ObjectId

Parameters **default_gen** (*bool*) – generate default value if not set

type
alias of ObjectId

class yadm.fields.simple.**SimpleField**(*default=<class 'yadm.markers.AttributeNotSet'>*, ***, *choices=None*, ***kwargs*)

Base field for simple types

Parameters

- **default** – default value
- **choices** (set) – set of possible values

class yadm.fields.simple.**StringField**(*default=<class 'yadm.markers.AttributeNotSet'>*, ***, *choices=None*, ***kwargs*)

Field for string

type

alias of str

Datetime field

class yadm.fields.datetime.**DatetimeField**(***, *auto_now=False*, ***kwargs*)

Field for time stamp

Parameters **auto_now** (*bool*) – datetime.now as default (default: False)

Decimal field

Field for decimal numbers

This code save to MongoDB document:

class yadm.fields.decimal.**DecimalField**(***, *context=None*, ***kwargs*)

Field for work with decimal.Decimal

Parameters

- **context** (*decimal.Context*) – context for decimal operations (default: run decimal.getcontext() when need)
- **default** (*decimal.Decimal*) –

TODO: context in copy()

context

Context

Returns decimal.Context for values

prepare_value(*document*, *value*)

Cast value to decimal.Decimal

Embedded documents fields

Work with embedded documents.

```
class EDoc(EmbeddedDocument):
    i = fields.IntegerField()

class Doc(Document):
    __collection__ = 'docs'
    edoc = EmbeddedDocumentField(EDoc)
```

```
doc = Doc()
doc.edoc = EDoc()
doc.edoc.i = 13
db.insert(doc)
```

class yadm.fields.embedded.**EmbeddedDocumentField**(*embedded_document_class*, *, *auto_create=True*, ***kwargs*)

Field for embedded objects

Parameters

- **embedded_document_class** (EmbeddedDocument) – class for embedded document
- **auto_create** (*bool*) – automatic creation embedded document from access

copy()

Return copy of field

get_if_attribute_not_set(*document*)

Call if key not exist in document

If auto_create is True, create and return new embedded document. Else AttributeError is raised.

Reference field

Work with references.

```
class RDoc(Document):
    i = fields.IntegerField

class Doc(Document):
    rdoc = fields.ReferenceField(RDoc)

rdoc = RDoc()
rdoc.i = 13
db.insert(rdoc)

doc = Doc()
doc.rdoc = rdoc
db.insert(doc)

doc = db.get_queryset(Doc).with_id(doc.id)  # reload doc
assert doc.rdoc.id == rdoc.id
assert doc.rdoc.i == 13
```

exception yadm.fields.reference.**BrokenReference**

Raise if referrenced document is not found

exception yadm.fields.reference.**NotBindingToDatabase**

Raise if set ObjectId insted referenced document to new document, who not binded to database.

class yadm.fields.reference.**ReferenceField**(*reference_document_class*, ***kwargs*)

Field for work with references

Parameters **reference_document_class** – class for refered documents

get_fake(*document*, *faker*, *depth*)

Try create referenced document

Containers fields

Base classes for containers.

class yadm.fields.containers.**Container**(*field*, *parent*, *value*)

Base class for containers

reload()

Reload all object from database

class yadm.fields.containers.**ContainerField**(*item_field=None*, ***, *auto_create=True*, ***kwargs*)

Base class for container fields

container

alias of *Container*

from_mongo(*document*, *value*)

get_default(*document*)

get_default_value()

prepare_item(*container*, *item*, *value*)

prepare_value(*document*, *value*)

to_mongo(*document*, *value*)

List fields

List of objects

```
class Doc(Document):
    __collection__ = 'docs'
    integers = fields.ListField(fields.IntegerField)

doc = Doc()
doc.integers.append(1)
doc.integers.append(2)
assert doc.integers == [1, 2]

db.insert(doc)
doc = db.get_queryset(Doc).with_id(doc.id)  # reload

doc.integers.append(3)  # do not save
assert doc.integers == [1, 2, 3]
doc = db.get_queryset(Doc).with_id(doc.id)  # reload
assert doc.integers == [1, 2]

doc.integers.remove(2)  # do not save too
assert doc.integers == [1]
doc = db.get_queryset(Doc).with_id(doc.id)  # reload
assert doc.integers == [1, 2]

doc.integers.push(3)  # $push query
assert doc.integers == [1, 2, 3]
doc = db.get_queryset(Doc).with_id(doc.id)  # reload
assert doc.integers == [1, 2, 3]

doc.integers.pull(2)  # $pull query
```

```
assert doc.integers == [1, 3]
doc = db.get_queryset(Doc).with_id(doc.id)  # reload
assert doc.integers == [1, 3]
```

class yadm.fields.list.**List**(*field*, *parent*, *value*)
Container for list

append(*item*)
Append item to list

Parameters **item** – item for append

This method does not save object!

insert(*index*, *item*)
Append item to list

Parameters

- **index** (*int*) –
- **item** – item for insert

This method does not save object!

pull(*query*, *reload=True*)
Pull item from database

Parameters

- **query** – query for *$pull* on this field
- **reload** (*bool*) – automatically reload all values from database

See *$pull* in MongoDB's *update*.

push(*item*, *reload=True*)
Push item directly to database

Parameters

- **item** – item for *$push*
- **reload** (*bool*) – automatically reload all values from database

See *$push* in MongoDB's *update*.

remove(*item*)
Remove item from list

Parameters **item** – item for remove

This method does not save object!

replace(*query*, *item*, *reload=True*)
Replace list elements

Parameters

- **query** – query for *update*. Keys of this query is relative.
- **item** – embedded document or dict
- **reload** (*bool*) – automatically reload all values from database

update(*query*, *values*, *reload=True*)
Update fields in embedded documents

Parameters

- **query** – query for *update*. Keys of this query is relative.
- **values** – dict of new values
- **reload** (*bool*) – automatically reload all values from database

class yadm.fields.list.**ListField**(*item_field=None*, *, *auto_create=True*, ***kwargs*)
Field for list values

For example, document with list of integers:

```
class TestDoc(Document):
    __collection__ = 'testdoc'
    li = fields.ListField(fields.IntegerField())
```

container
alias of *List*

Set field

Field with sets.

Similar as *yadm.fields.list*.

class yadm.fields.set.**Set**(*field*, *parent*, *value*)
Container for set

add(*item*)
Append item to set

Parameters **item** – item for add

This method does not save object!

add_to_set(*item*, *reload=True*)
Add item directly to database

Parameters

- **item** – item for *$addToSet*
- **reload** (*bool*) – automatically reload all values from database

See *$addToSet* in MongoDB's *update*.

discard(*item*)
Remove item from the set if it is present

Parameters **item** – item for discard

This method does not save object!

pull(*query*, *reload=True*)
Pull item from database

Parameters

- **query** – query for *$pull* on this field
- **reload** (*bool*) – automatically reload all values from database

See *$pull* in MongoDB's *update*.

remove(*item*)
Remove item from set

Parameters **item** – item for remove

This method does not save object!

class yadm.fields.set.**SetField**(*item_field=None*, ***, *auto_create=True*, ***kwargs*)
Field for set values

container
alias of *Set*

Map field

Map

```
class Doc(Document):
    __collection__ = 'docs'
    map = fields.MapField(fields.IntegerField)

doc = Doc()
doc.map['a'] = 1
doc.map['b'] = 2
assert doc.map == {'a': 1, 'b': 2}

db.insert(doc)
doc = db.get_queryset(Doc).with_id(doc.id)  # reload

doc.map['c'] = 3  # do not save
assert doc.map == {'a': 1, 'b': 2, 'c': 3}
doc = db.get_queryset(Doc).with_id(doc.id)  # reload
assert doc.map == {'a': 1, 'b': 2}

del doc.map['b']  # do not save too
assert doc.map == {'a': 1}
doc = db.get_queryset(Doc).with_id(doc.id)  # reload
assert doc.map == {'a': 1, 'b': 2}

doc.map.set('d', 3)  # $set query
assert doc.map == {'a': 1, 'b': 2, 'c': 3}
doc = db.get_queryset(Doc).with_id(doc.id)  # reload
assert doc.map == {'a': 1, 'b': 2, 'c': 3}

doc.map.unset('d', 3)  # $unset query
assert doc.map == {'a': 1, 'b': 2}
doc = db.get_queryset(Doc).with_id(doc.id)  # reload
assert doc.map == {'a': 1, 'b': 2}
```

class yadm.fields.map.**Map**(*field*, *parent*, *value*)

set(*key*, *value*, *reload=True*)
Set key directly in database

Parameters

- **key** – key
- **value** – value for *$set*

See *$set* in MongoDB's *set*.

unset(*key*, *reload=True*)
Unset key directly in database

Parameters **key** – key

See *$unset* in MongoDB's *unset*.

class yadm.fields.map.**MapCustomKeysField**(*item_field*, *key_factory*, *, *key_to_str=<class 'str'>*, *auto_create=True*, ***kwargs*)
Field for maps with custom key type

Parameters

- **item_field** (*field*) –
- **key_factory** (*func*) – function, who return thue key from raw string key
- **key_to_str** (*func*) –
- **auto_create** (*bool*) –

class yadm.fields.map.**MapField**(*item_field=None*, *, *auto_create=True*, ***kwargs*)
Field for maps

container
alias of *Map*

Geo fields

Fields for geo data

See: http://docs.mongodb.org/manual/applications/geospatial-indexes/

GeoJSON: http://geojson.org/geojson-spec.html

class yadm.fields.geo.**Geo**
Base class for GeoJSON data

class yadm.fields.geo.**GeoCoordinates**
Base class for GeoJSON data with coordinates

class yadm.fields.geo.**GeoField**(*types=[<class 'yadm.fields.geo.Point'>, <class 'yadm.fields.geo.MultiPoint'>]*, ***kwargs*)
Base field for GeoJSON objects

class yadm.fields.geo.**GeoOneTypeField**(***kwargs*)
Base field for GeoJSON objects with one acceptable type

class yadm.fields.geo.**MultiPoint**(*points*)
Class for GeoJSON MultiPoint objects

See: http://geojson.org/geojson-spec.html#id5

class yadm.fields.geo.**MultiPointField**(***kwargs*)
Field for MultiPoint

type
alias of *MultiPoint*

class yadm.fields.geo.**Point**(*longitude*, *latitude*)
Class for GeoJSON Point objects

See: http://geojson.org/geojson-spec.html#id2

class yadm.fields.geo.**PointField**(***kwargs*)
Field for Point

type
alias of *Point*

y

Symbols

A

B

C

D

E

T

U

W

Y