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# **avocato Documentation**

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**avocato** is a simple and fast ORM/framework-agnostic object serialization library for converting complex objects to and from simple Python datatypes.

Don't be scared if you're using an ORM/framework. It can easily be adapted to be used with any ORM/framework of your liking. Currently it supports Django ORM and peewee.

This library is heavily influenced by [serpy](#).



# CHAPTER 1

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## Installation

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```
$ pip install avocado
```





## CHAPTER 2

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### Documentation

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Find documentation at [avocato.rtd.io](http://avocato.rtd.io)



## CHAPTER 3

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### Example

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```
import avocado

class Bar(object):
    patrick = 'star'

class Foo(object):
    over = 9000
    spongebob = 'squarepants'
    bar = Bar()

class BarSerializer(avocado.Serializer):
    patrick = avocado.StrField()

class FooSerializer(avocado.Serializer):
    over = avocado.IntField()
    spongebob = avocado.StrField()
    bar = BarSerializer()

foo = Foo()
FooSerializer(foo).data
# {'over': 9000, 'spongebob': 'squarepants', 'bar': {'patrick': 'star'}}
```

## 3.1 API Reference

### 3.1.1 Serializers

### 3.1.2 Fields

**class** avocado.**Field**(*attr=None, label=None, required=True, validators=None, call=False, default=None*)

*Field* handles converting between primitive values and internal datatypes. It also deals with validating input values.

#### Parameters

- **attr** (*str*) – The attribute to get on the object. If this is not supplied, the name this field was assigned to on the serializer will be used.
- **label** (*str*) – A label to use as the name of the serialized field instead of using the attribute name of the field.
- **required** (*bool*) – Whether the field is required.
- **validators** (*list*) – List of validators to run when calling `.is_valid()` method on the serializer.
- **call** (*bool*) – Whether the value should be called after it is retrieved from the object. Useful if an object has a method to be serialized.
- **is\_create\_field** (*bool*) – Whether the field is used to populate the instance when creating a new object via `to_instance` method on the serializer.
- **call** – Whether the field is used to populate the instance when updating an object via `to_instance` method on the serializer.

**class** avocado.**StrField**(*\*\*kwargs*)

Converts input value to string.

#### Parameters

- **max\_length** (*int*) – Maximum length of the string. If present, adds a validator for max length which will be run when `is_valid` method on the serializer is called.
- **min\_length** (*int*) – Minimum length of the string. If present, adds a validator for min length which will be run when `is_valid` method on the serializer is called.
- **choices** (*list*) – Available choices. If present, adds a validator that checks if value is present in choices and will be run when `is_valid` method on the serializer is called.

**class** avocado.**EmailField**(*\*\*kwargs*)

Converts input value to email.

**class** avocado.**IntField**(*attr=None, label=None, required=True, validators=None, call=False, default=None*)

Converts input value to integer.

**class** avocado.**FloatField**(*attr=None, label=None, required=True, validators=None, call=False, default=None*)

Converts input value to float.

**class** avocado.**BoolField**(*attr=None, label=None, required=True, validators=None, call=False, default=None*)

Converts input value to bool.

**class** `avocado.DecimalField` (*attr=None, label=None, required=True, validators=None, call=False, default=None*)

Converts input value to string, so it accurately shows decimal numbers.

**class** `avocado.DateTimeField` (*attr=None, label=None, required=True, validators=None, call=False, default=None*)

Converts input value to ISO format date.

**class** `avocado.DictField` (*attr=None, label=None, required=True, validators=None, call=False, default=None*)

Converts input value to dict.

**class** `avocado.MethodField` (*method=None, \*\*kwargs*)

Calls a method on the `Serializer` to get the value.

### 3.1.3 Validators

**class** `avocado.Validator`

Base class for validators.

**class** `avocado.Required` (*message=None*)

Validates if value is set.

Raises exception if value is empty or None

**class** `avocado.Email` (*message=None*)

Validates if value is in valid email format

**class** `avocado.Length` (*min\_length=None, max\_length=None, message=None, equal=None*)

Validates if value is correct size.

**class** `avocado.OneOf` (*choices, message=None*)

Validates if the value is one of the choices.

**class** `avocado.OneOfType` (*choices, message=None*)

Validates if value type is one of the choices.

### 3.1.4 Exceptions

**class** `avocado.AvocadoError`

Base avocado exception.

**class** `avocado.AvocadoValidationError` (*message, field\_names=None, data=None, valid\_data=None, \*\*kwargs*)

Exception used for validating values.

## 3.2 Vendors

### 3.2.1 Django

Serializer for easily converting to and from simple Python datatypes to [Django Models](#).

### 3.2.2 peewee

Serializer for easily converting to and from simple Python datatypes to [peewee models](#).



## CHAPTER 4

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### Indices and tables

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