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# **Model Bakery Documentation**

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Model Bakery offers you a smart way to create fixtures for testing in Django.

With a simple and powerful API you can create many objects with a single line of code.

Model Bakery is a rename of the legacy [model\\_mommy's project](#). This is because the project's creator and maintainers decided to not reinforce gender stereotypes for women in technology. You can read more about this subject [here](#).



# CHAPTER 1

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## Compatibility

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Model Bakery supports Django  $\geq 3.2$ .



## CHAPTER 2

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### Install

---

Install it with `pip`

```
$ pip install model_bakery
```



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### Contributing to Model Bakery

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As an open source project, Model Bakery welcomes contributions of many forms. Examples of contributions include:

- Code Patches
- Documentation improvements
- Bug reports

Take a look in our [Github repo](#) for more instructions on how to set up your local environment to help Model Bakery to grow.



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Doubts? Loved it? Hated it? Suggestions?

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Feel free to [open an issue](#) for support, development or ideas!

## 4.1 Contents

### 4.1.1 Basic Usage

Let's say you have an app **shop** with a model like this:

File: **models.py**

```
class Customer(models.Model):
    """
    Model class Customer of shop app
    """
    enjoy_jards_macale = models.BooleanField()
    name = models.CharField(max_length=30)
    email = models.EmailField()
    age = models.IntegerField()
    bio = models.TextField()
    days_since_last_login = models.BigIntegerField()
    birthday = models.DateField()
    last_shopping = models.DateTimeField()
```

To create a persisted instance, just call Model Bakery:

File: **test\_models.py**

```
#Core Django imports
from django.test import TestCase

#Third-party app imports
from model_bakery import baker
```

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```
from shop.models import Customer

class CustomerTestModel(TestCase):
    """
    Class to test the model Customer
    """

    def setUp(self):
        self.customer = baker.make(Customer)
```

Importing every model over and over again is boring. So let Model Bakery import them for you:

```
from model_bakery import baker

# 1st form: app_label.model_name
customer = baker.make('shop.Customer')

# 2nd form: model_name
product = baker.make('Product')
```

---

**Note:** You can only use the 2nd form on unique model names. If you have an app shop with a Product, and an app stock with a Product, you must use the app\_label.model\_name form.

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**Note:** model\_name is case insensitive.

---

#### 4.1.1.1 Model Relationships

Model Bakery also handles relationships. Let's say the customer has a purchase history:

File: **models.py**

```
class Customer(models.Model):
    """
    Model class Customer of shop app
    """
    enjoy_jards_macale = models.BooleanField()
    name = models.CharField(max_length=30)
    email = models.EmailField()
    age = models.IntegerField()
    bio = models.TextField()
    days_since_last_login = models.BigIntegerField()
    birthday = models.DateField()
    appointment = models.DateTimeField()

class PurchaseHistory(models.Model):
    """
    Model class PurchaseHistory of shop app
    """
    customer = models.ForeignKey('Customer')
    products = models.ManyToManyField('Product')
    year = models.IntegerField()
```

You can use Model Bakery as:

```
from django.test import TestCase

from model_bakery import baker

class PurchaseHistoryTestModel(TestCase):

    def setUp(self):
        self.history = baker.make('shop.PurchaseHistory')
        print(self.history.customer)
```

It will also create the Customer, automagically.

**NOTE: ForeignKeys and OneToOneFields** - Since Django 1.8, ForeignKey and OneToOne fields don't accept unpersisted model instances anymore. This means that if you run:

```
baker.prepare('shop.PurchaseHistory')
```

You'll end up with a persisted "Customer" instance.

#### 4.1.1.2 M2M Relationships

By default Model Bakery doesn't create related instances for many-to-many relationships. If you want them to be created, you have to turn it on as following:

```
from django.test import TestCase

from model_bakery import baker

class PurchaseHistoryTestModel(TestCase):

    def setUp(self):
        self.history = baker.make('shop.PurchaseHistory', make_m2m=True)
        print(self.history.products.count())
```

#### 4.1.1.3 Explicit M2M Relationships

If you want to, you can prepare your own set of related object and pass it to Model Bakery. Here's an example:

```
products_set = baker.prepare(Product, _quantity=5)
history = baker.make(PurchaseHistory, products=products_set)
```

#### 4.1.1.4 Explicit values for fields

By default, Model Bakery uses random values to populate the model's fields. But it's possible to explicitly set values for them as well.

```
from django.test import TestCase

from model_bakery import baker

class CustomerTestModel(TestCase):
```

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```
def setUp(self):
    self.customer = baker.make(
        'shop.Customer',
        age=21
    )

    self.older_customer = baker.make(
        'shop.Customer',
        age=42
    )
```

You can use callable to explicitly set values as:

```
import random

from django.test import TestCase

from model_bakery import baker

class CustomerTestModel(TestCase):
    def get_random_name(self):
        return random.choice(["Suraj Magdum", "Avadhut More", "Rohit Chile"])

    def setUp(self):
        self.customer = baker.make(
            'shop.Customer',
            age=21,
            name = self.get_random_name
        )
```

You can also use iterable to explicitly set values as:

```
from django.test import TestCase

from model_bakery import baker

class CustomerTestModel(TestCase):
    def setUp(self):
        names = ("Onkar Awale", "Pruthviraj Patil", "Shubham Ojha")

        self.customer = baker.make(
            'shop.Customer',
            age=21,
            name = itertools.cycle(names)
        )
```

Sometimes, you have a field with an unique value and using `make` can cause random errors. Also, passing an attribute value just to avoid uniqueness validation problems can be tedious. To solve this you can define a sequence with `seq`

```
from django.test import TestCase

from model_bakery import baker

from model_bakery.recipe import seq

class CustomerTestModel(TestCase):
```

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```
def setUp(self):
    self.customer = baker.make(
        'shop.Customer',
        age=21,
        name = seq('Joe')
    )
```

Related objects fields are also reachable by their name or related names in a very similar way as Django does with field lookups:

```
from django.test import TestCase

from model_bakery import baker

class PurchaseHistoryTestModel(TestCase):

    def setUp(self):
        self.bob_history = baker.make(
            'shop.PurchaseHistory',
            customer__name='Bob'
        )
```

#### 4.1.1.5 Creating Files

Model Bakery does not create files for FileField types. If you need to have the files created, you can pass the flag `_create_files=True` (defaults to False) to either `baker.make` or `baker.make_recipe`.

**Important:** the lib does not do any kind of file clean up, so it's up to you to delete the files created by it.

#### 4.1.1.6 Non persistent objects

If you don't need a persisted object, Model Bakery can handle this for you as well with the **prepare** method:

```
from model_bakery import baker

customer = baker.prepare('shop.Customer')
```

It works like `make` method, but it doesn't persist the instance neither the related instances.

If you want to persist only the related instances but not your model, you can use the `_save_related` parameter for it:

```
from model_bakery import baker

history = baker.prepare('shop.PurchaseHistory', _save_related=True)
assert history.id is None
assert bool(history.customer.id) is True
```

#### 4.1.1.7 More than one instance

If you need to create more than one instance of the model, you can use the `_quantity` parameter for it:

```
from model_bakery import baker

customers = baker.make('shop.Customer', _quantity=3)
assert len(customers) == 3
```

It also works with `prepare`:

```
from model_bakery import baker

customers = baker.prepare('shop.Customer', _quantity=3)
assert len(customers) == 3
```

The `make` method also accepts a parameter `_bulk_create` to use Django's `bulk_create` method instead of calling `obj.save()` for each created instance.

---

**Note:** Django's `bulk_create` does not update the created object primary key as explained in their docs. Because of that, there's no way for model-bakery to avoid calling `save` method for all the foreign keys. But this behavior can depends on which Django version and database backend you're using.

So, for example, if you're trying to create 20 instances of a model with a foreign key using `_bulk_create` this will result in 21 queries (20 for each foreign key object and one to bulk create your 20 instances).

---

If you want to avoid that, you'll have to perform individual bulk creations per foreign keys as the following example:

```
from model_bakery import baker

baker.prepare(User, _quantity=5, _bulk_create=True)
user_iter = User.objects.all().iterator()
baker.prepare(Profile, user=user_iter, _quantity=5, _bulk_create=True)
```

#### 4.1.1.8 Multi-database support

Model Bakery supports django application with more than one database. If you want to determine which database bakery should use, you have the `_using` parameter:

```
from model_bakery import baker

custom_db = "your_custom_db"
assert custom_db in settings.DATABASES
history = baker.make('shop.PurchaseHistory', _using=custom_db)
assert history in PurchaseHistory.objects.using(custom_db).all()
assert history.customer in Customer.objects.using(custom_db).all()
# default database tables with no data
assert not PurchaseHistory.objects.exists()
assert not Customer.objects.exists()
```

### 4.1.2 Recipes

If you're not comfortable with random data or even if you just want to improve the semantics of the generated data, there's hope for you.

You can define a **Recipe**, which is a set of rules to generate data for your models.

It's also possible to store the Recipes in a module called *baker\_recipes.py* at your app's root directory. This recipes can later be used with the `make_recipe` function:

```
shop/
  migrations/
  __init__.py
  admin.py
  apps.py
  baker_recipes.py  <--- where you should place your Recipes
  models.py
  tests.py
  views.py
```

File: `baker_recipes.py`

```
from model_bakery.recipe import Recipe
from shop.models import Customer

customer_joe = Recipe(
    Customer,
    name='John Doe',
    nickname='joe',
    age=18,
    birthday=date.today(),
    last_shopping=datetime.now()
)
```

---

**Note:** You don't have to declare all the fields if you don't want to. Omitted fields will be generated automatically.

---

File: `test_model.py`

```
from django.test import TestCase

from model_bakery import baker

from shop.models import Customer, Contact

class CustomerTestModel(TestCase):

    def setUp(self):
        # Load the recipe 'customer_joe' from 'shop/baker_recipes.py'
        self.customer_one = baker.make_recipe(
            'shop.customer_joe'
        )
```

Or if you don't want a persisted instance:

```
from model_bakery import baker

baker.prepare_recipe('shop.customer_joe')
```

---

**Note:** You don't have to place necessarily your `baker_recipes.py` file inside your app's root directory. If you have a tests directory within the app, for example, you can add your recipes inside it and still use `make_recipe/prepare_recipe` by adding the tests module to the string you've passed as an argument. For example: `baker.make_recipe("shop.tests.customer_joe")`

So, short summary, you can place your `baker_recipes.py` **anywhere** you want to and to use it having in mind you'll only have to simulate an import but obfuscating the `baker_recipes` module from the import string.

---

**Note:** You can use the `_quantity` parameter as well if you want to create more than one object from a single recipe.

---

You can define recipes locally to your module or test case as well. This can be useful for cases where a particular set of values may be unique to a particular test case, but used repeatedly there. For example:

File: `baker_recipes.py`

```
company_recipe = Recipe(Company, name='WidgetCo')
```

File: `test_model.py`

```
class EmployeeTest(TestCase):
    def setUp(self):
        self.employee_recipe = Recipe(
            Employee,
            name=seq('Employee '),
            company=baker.make_recipe('app.company_recipe')
        )

    def test_employee_list(self):
        self.employee_recipe.make(_quantity=3)
        # test stuff....

    def test_employee_tasks(self):
        employee1 = self.employee_recipe.make()
        task_recipe = Recipe(Task, employee=employee1)
        task_recipe.make(status='done')
        task_recipe.make(due_date=datetime(2014, 1, 1))
        # test stuff....
```

#### 4.1.2.1 Recipes with foreign keys

You can define `foreign_key` relations:

```
from model_bakery.recipe import Recipe, foreign_key
from shop.models import Customer, PurchaseHistory

customer = Recipe(Customer,
    name='John Doe',
    nickname='joe',
    age=18,
    birthday=date.today(),
    appointment=datetime.now()
)

history = Recipe(PurchaseHistory,
    owner=foreign_key(customer)
)
```

Notice that `customer` is a *recipe*.

You may be thinking: “I can put the `Customer` model instance directly in the `owner` field”. That’s not recommended.

Using the `foreign_key` is important for 2 reasons:

- Semantics. You'll know that attribute is a foreign key when you're reading;
- The associated instance will be created only when you call `make_recipe` and not during recipe definition;

You can also use `related`, when you want two or more models to share the same parent:

```
from model_bakery.recipe import related, Recipe
from shop.models import Customer, PurchaseHistory

history = Recipe(PurchaseHistory)
customer_with_2_histories = Recipe(Customer,
    name='Albert',
    purchasehistory_set=related('history', 'history'),
)
```

Note this will only work when calling `make_recipe` because the related manager requires the objects in the `related_set` to be persisted. That said, calling `prepare_recipe` the `related_set` will be empty.

If you want to set m2m relationship you can use `related` as well:

```
from model_bakery.recipe import related, Recipe

pencil = Recipe(Product, name='Pencil')
pen = Recipe(Product, name='Pen')
history = Recipe(PurchaseHistory)

history_with_prods = history.extend(
    products=related(pencil, pen)
)
```

When creating models based on a `foreign_key` recipe using the `_quantity` argument, only one related model will be created for all new instances.

This will cause an issue if your models use `OneToOneField`. In that case, you can provide `one_to_one=True` to the recipe to make sure every instance created by `_quantity` has a unique id.

#### 4.1.2.2 Recipes with callables

It's possible to use callables as recipe's attribute value.

```
from datetime import date
from model_bakery.recipe import Recipe
from shop.models import Customer

customer = Recipe(
    Customer,
    birthday=date.today,
)
```

When you call `make_recipe`, Model Bakery will set the attribute to the value returned by the callable.

#### 4.1.2.3 Recipes with iterators

You can also use *iterators* (including *generators*) to provide multiple values to a recipe.

```
from itertools import cycle

names = ['Ada Lovelace', 'Grace Hopper', 'Ida Rhodes', 'Barbara Liskov']
customer = Recipe(Customer,
    name=cycle(names)
)
```

Model Bakery will use the next value in the *iterator* every time you create a model from the recipe.

#### 4.1.2.4 Sequences in recipes

Sometimes, you have a field with a unique value and using `make` can cause random errors. Also, passing an attribute value just to avoid uniqueness validation problems can be tedious. To solve this you can define a sequence with `seq`

```
>>> from model_bakery.recipe import Recipe, seq
>>> from shop.models import Customer

>>> customer = Recipe(Customer,
    name=seq('Joe'),
    age=seq(15)
)

>>> customer = baker.make_recipe('shop.customer')
>>> customer.name
'Joel'
>>> customer.age
16

>>> new_customer = baker.make_recipe('shop.customer')
>>> new_customer.name
'Joe2'
>>> new_customer.age
17
```

This will append a counter to strings to avoid uniqueness problems and it will sum the counter with numerical values.

An optional `suffix` parameter can be supplied to augment the value for cases like generating emails or other strings with common suffixes.

```
>>> from model_bakery.recipe import Recipe, seq
>>> from shop.models import Customer

>>> customer = Recipe(Customer, email=seq('user', suffix='@example.com'))

>>> customer = baker.make_recipe('shop.customer')
>>> customer.email
'user1@example.com'

>>> customer = baker.make_recipe('shop.customer')
>>> customer.email
'user2@example.com'
```

Sequences and iterables can be used not only for recipes, but with `baker` as well:

```
>>> from model_bakery import baker
```

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```

>>> customer = baker.make('Customer', name=baker.seq('Joe'))
>>> customer.name
'Joel'

>>> customers = baker.make('Customer', name=baker.seq('Chad'), _quantity=3)
>>> for customer in customers:
...     print(customer.name)
'Chad1'
'Chad2'
'Chad3'

```

You can also provide an optional `increment_by` argument which will modify incrementing behaviour. This can be an integer, float, Decimal or timedelta. If you want to start your increment differently, you can use the `start` argument, only if it's not a sequence for date, datetime or time objects.

```

>>> from datetime import date, timedelta
>>> from model_bakery.recipe import Recipe, seq
>>> from shop.models import Customer

>>> customer = Recipe(Customer,
    age=seq(15, increment_by=3)
    height_ft=seq(5.5, increment_by=.25)
    # assume today's date is 21/07/2014
    appointment=seq(date(2014, 7, 21), timedelta(days=1)),
    name=seq('Custom num: ', increment_by=2, start=5),
)

>>> customer = baker.make_recipe('shop.customer')
>>> customer.age
18
>>> customer.height_ft
5.75
>>> customer.appointment
datetime.date(2014, 7, 22)
>>> customer.name
'Custom num: 5'

>>> new_customer = baker.make_recipe('shop.customer')
>>> new_customer.age
21
>>> new_customer.height_ft
6.0
>>> new_customer.appointment
datetime.date(2014, 7, 23)
>>> customer.name
'Custom num: 7'

```

Be aware that `seq` may query the database to determine when to reset. Therefore, a `SimpleTestCase` test method (which disallows database access) can call `prepare_recipe` on a `Recipe` with a `seq` once, but not more than once within a test, even though the record itself is never saved to the database.

#### 4.1.2.5 Overriding recipe definitions

Passing values when calling `make_recipe` or `prepare_recipe` will override the recipe rule.

```
from model_bakery import baker

baker.make_recipe('shop.customer', name='Ada Lovelace')
```

This is useful when you have to create multiple objects and you have some unique field, for instance.

#### 4.1.2.6 Recipe inheritance

If you need to reuse and override existent recipe call extend method:

```
customer = Recipe(
    Customer,
    bio='Some customer bio',
    age=30,
    enjoy_jards_macale=True,
)
sad_customer = customer.extend(
    enjoy_jards_macale=False,
)
```

### 4.1.3 How Model Bakery behaves?

By default, Model Bakery skips fields with `null=True` or `blank=True`. Also if a field has a default value, it will be used.

You can override this behavior by:

1. Explicitly defining values

```
# from "Basic Usage" page, assume all fields either null=True or blank=True
from model_bakery import baker

customer = baker.make('shop.Customer', enjoy_jards_macale=True, bio="A fan of Jards_
↳ Malacé")
```

2. Passing `_fill_optional` with a list of fields to fill with random data

```
customer = baker.make('shop.Customer', _fill_optional=['enjoy_jards_macale', 'bio'])
```

3. Passing `_fill_optional=True` to fill all fields with random data

```
customer = baker.make('shop.Customer', _fill_optional=True)
```

#### 4.1.3.1 When shouldn't you let Baker generate things for you?

If you have fields with special validation, you should set their values by yourself.

Model Bakery should handle fields that:

1. don't matter for the test you're writing;
2. don't require special validation (like unique, etc);
3. are required to create the object.

#### 4.1.3.2 Currently supported fields

- BooleanField, NullBooleanField, IntegerField, BigIntegerField, SmallIntegerField, PositiveIntegerField, PositiveSmallIntegerField, FloatField, DecimalField
- CharField, TextField, BinaryField, SlugField, URLField, EmailField, IPAddressField, GenericIPAddressField, ContentType
- ForeignKey, OneToOneField, ManyToManyField (even with through model)
- DateField, DateTimeField, TimeField, DurationField
- FileField, ImageField
- JSONField, ArrayField, HStoreField
- CCharField, CEmailField, CTextField
- DecimalRangeField, IntegerRangeField, BigIntegerRangeField, DateRangeField, DateTimeRangeField

Require `django.contrib.gis` in `INSTALLED_APPS`:

- GeometryField, PointField, LineStringField, PolygonField, MultiPointField, MultiLineStringField, MultiPolygonField, GeometryCollectionField

#### 4.1.3.3 Custom fields

Model Bakery allows you to define generators methods for your custom fields or overrides its default generators. This can be achieved by specifying the field and generator function for the `generators.add` function. Both can be the real python objects imported in settings or just specified as import path string.

Examples:

```
from model_bakery import baker

def gen_func():
    return 'value'

baker.generators.add('test.generic.fields.CustomField', gen_func)
```

```
# in the module code.path:
def gen_func():
    return 'value'

# in your tests.py file:
from model_bakery import baker

baker.generators.add('test.generic.fields.CustomField', 'code.path.gen_func')
```

#### 4.1.3.4 Customizing Baker

In some rare cases, you might need to customize the way Baker base class behaves. This can be achieved by creating a new class and specifying it in your settings files. It is likely that you will want to extend Baker, however the minimum requirement is that the custom class have `make` and `prepare` functions. In order for the custom class to be used, make sure to use the `model_bakery.baker.make` and `model_bakery.baker.prepare` functions, and not `model_bakery.baker.Baker` directly.

Examples:

```
# in the module code.path:
class CustomBaker(baker.Baker):
    def get_fields(self):
        return [
            field
            for field in super(CustomBaker, self).get_fields()
            if not field isinstance CustomField
        ]

# in your settings.py file:
BAKER_CUSTOM_CLASS = 'code.path.CustomBaker'
```

Additionally, if you want your created instance to be returned respecting one of your custom ModelManagers, you can use the `_from_manager` parameter as the example below:

```
movie = baker.make(Movie, title='Old Boys', _from_manager='availables') # This will
↳ use the Movie.availables model manager
```

### 4.1.3.5 Save method custom parameters

If you have overwritten the `save` method for a model, you can pass custom parameters to it using Model Bakery. Example:

```
class ProjectWithCustomSave(models.Model)
    # some model fields
    created_by = models.ForeignKey(settings.AUTH_USER_MODEL)

    def save(self, user, *args, **kwargs):
        self.created_by = user
        return super(ProjectWithCustomSave, self).save(*args, **kwargs)

#with model baker:
user = baker.make(settings.AUTH_USER_MODEL)
project = baker.make(ProjectWithCustomSave, _save_kwargs={'user': user})
assert user == project.user
```

## 4.1.4 Test Runners

Most of the code examples shown so far have used the [Django TestCase](#) to explain how Model Bakery is used.

However `pytest` (with the `pytest-django` plugin) is often preferred for its simplicity and other benefits. See [here](#).

The following examples show Model Bakery usage with different test runners.

### 4.1.4.1 Django

```
# Core Django imports
from django.test import TestCase

# Third-party app imports
from model_bakery import baker
```

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```

from shop.models import Customer

class CustomerTestModel(TestCase):
    """
    Class to test the model Customer
    """

    def setUp(self):
        """Set up test class."""
        self.customer = baker.make(Customer)

    def test_using_customer(self):
        """Test function using baked model."""
        self.assertIsInstance(self.customer, Customer)

```

#### 4.1.4.2 pytest

```

# pytest import
import pytest

# Third-party app imports
from model_bakery import baker

from shop.models import Customer

@pytest.fixture
def customer():
    """Fixture for baked Customer model."""
    return baker.make(Customer)

def test_using_customer(customer):
    """Test function using fixture of baked model."""
    assert isinstance(customer, Customer)

```

### 4.1.5 Migrating from Model Mommy

Model Bakery has a [Python script](#) to help you to migrate your project's test code from Model Mommy to Model Bakery. This script will rename recipe files and replace legacy imports by the new ones.

From your project's root dir, execute the following commands:

```

$ pip uninstall model_mommy
$ pip install model_bakery
$ wget https://raw.githubusercontent.com/model-bakers/model_bakery/main/utils/from_
  ↳mommy_to_bakery.py
$ python from_mommy_to_bakery.py --dry-run # will list the files that'll be changed
$ python from_mommy_to_bakery.py          # migrate from model_mommy to model_bakery
$ python manage.py test

```

This command will only migrate \*.py files. Any other file type such as tox.ini, requirements.txt etc, have to be updated manually.