
django-brasil-municipios

Documentation

Release 0.6

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This is the documentation for **django-brasil-municipios**, a [GeoDjango](#) app with all Brazilian municipalities and their geographical polygons, with data downloaded from the IBGE (Brazilian Institute of Geography and Statistics) [website](#).

CHAPTER 1

Demo Code

```
>>> from django.contrib.gis.geos import Point
>>> from brasil_municipios.models import Municipio
>>>
>>> cristo_redentor = Point(-43.210493, -22.951906, srid=4326)
>>> municipio_cristo = Municipio.objects.get(geometry__contains=cristo_redentor)
>>> municipio_cristo.name, municipio_cristo.geocode, municipio_cristo.state
('RIO DE JANEIRO', '3304557', 'RJ')
```


CHAPTER 2

Installation

First of all, your Django project must meet the [requirements for GeoDjango](#), including a spatial database and geospatial libraries.

Install app

You can install **django-brasil-municipios** in your environment from the [Python Package Index](#):

```
$ pip install django-brasil-municipios
```

Update settings

On your project's settings, add `'brasil_municipios'` to your [INSTALLED_APPS](#) list.

CHAPTER 3

Load data

First, run **django-brasil-municipios**'s migrations in order to create the app's tables in the database:

```
$ python manage.py migrate brasil_municipios
```

Then, you can run the following command to actually download the Brazilian municipalities' data:

```
$ python manage.py loadmunicipios
```

That will take some time to complete. Once the data is successfully imported, you can start a [Django shell](#) and run the example shown before in the [Demo Code](#).

Error `ftplib.error_perm: 550 Failed to change directory.`

If the error `ftplib.error_perm` is raised when you try to load the data, it's because [IBGE](#) changed the directory structure of their FTP server. This means that this library must be updated to match their new structure. Just [open an issue on GitHub](#) to let me know of the problem, and I'll have it fixed as soon as possible.

Load data for selected states

If you don't want to load data for the municipalities of all the Brazilian states, you can specify the desired states with the `--state` flag.

Load data only for São Paulo (SP):

```
$ python manage.py loadmunicipios --state SP
```

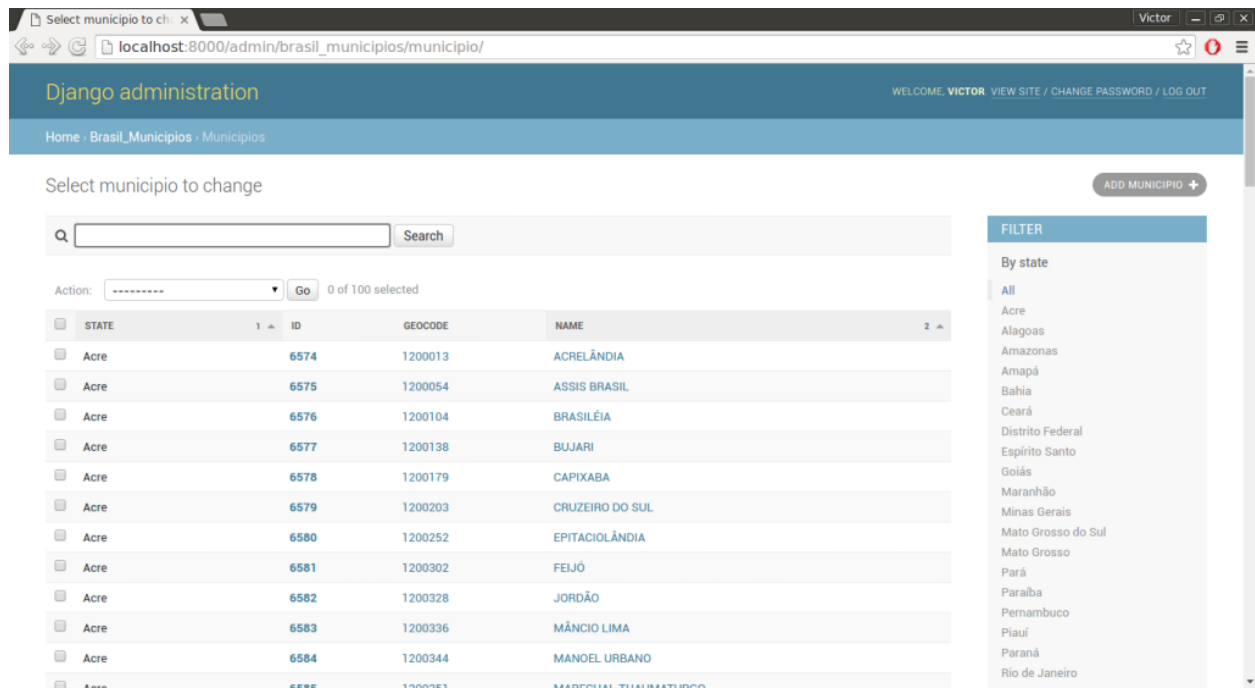
Load data only for Tocantins (TO) and Maranhão (MA):

```
$ python manage.py loadmunicipios --state TO --state MA
```

CHAPTER 4

Django Admin

If your project uses [Django Admin](#), **django-brasil-municipios** will appear in it, and you will be able to view the municipalities in a map:



Select municipio to change

Q

alto

Search

4 results (5572 total)

Action:

Go

0 of 4 selected

	STATE	ID	GEOCODE	NAME
<input type="checkbox"/>	Maranhão	6363	2100436	ALTO ALEGRE DO MARANHÃO
<input type="checkbox"/>	Maranhão	6364	2100477	ALTO ALEGRE DO PINDARÉ
<input type="checkbox"/>	Maranhão	6365	2100501	ALTO PARNAÍBA
<input type="checkbox"/>	Maranhão	6478	2107001	MONTE ALTO

4 municipios

ADD MUNICIPIO +

FILTER

By state

- All
- Acre
- Alagoas
- Amazonas
- Amapá
- Bahia
- Ceará
- Distrito Federal
- Espírito Santo
- Goiás
- Maranhão
- Minas Gerais
- Mato Grosso do Sul
- Mato Grosso
- Pará
- Paraíba
- Pernambuco
- Piauí
- Paraná
- Rio de Janeiro

localhost:8000/admin/brasil_municipios/municipio/?q=alto&state__exact=MA

Change municipio | D

Victor

localhost:8000/admin/brasil_municipios/municipio/5726/change/?_changelist_filters=q%3Ddiadema%26state__exact%3DS

Django administration

WELCOME, VICTOR VIEW SITE / CHANGE PASSWORD / LOG OUT

Home » Brasil_Municipios » Municipios » DIADEMA

Change municipio

HISTORY

Name:

DIADEMA

Geocode:

3513801

State:

São Paulo

Geometry:

localhost:8000/admin/brasil_municipios/municipio/?q=-4.16q=alto&stat...