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# **django-brasil-municipios**

## **Documentation**

***Release 0.5***

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August 06, 2016



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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](#).



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### Demo Code

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```
>>> 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')
```





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## Installation

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

### 2.1 Install app

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

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

### 2.2 Update settings

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



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## Load data

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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*.

### 3.1 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
```



## 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:

The screenshot shows the Django Admin interface for the 'django-brasil-municipios' application. The browser address bar indicates the URL is `localhost:8000/admin/brasil_municipios/municipio/`. The page title is 'Django administration'. The breadcrumb trail is 'Home > Brasil\_Municipios > Municipios'. The main heading is 'Select municipio to change'. There is a search bar and a 'Search' button. Below the search bar, there is an 'Action:' dropdown menu and a 'Go' button. The table displays a list of municipalities in Acre state, with columns for STATE, ID, GEOCODE, and NAME. The table is sorted by ID in ascending order. On the right side, there is a 'FILTER' sidebar with a 'By state' section showing a list of states: 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, and Rio de Janeiro. The 'ADD MUNICIPIO +' button is visible in the top right corner.

STATE	ID	GEOCODE	NAME
Acre	6574	1200013	ACRELÂNDIA
Acre	6575	1200054	ASSIS BRASIL
Acre	6576	1200104	BRASILÉIA
Acre	6577	1200138	BUJARI
Acre	6578	1200179	CAPIXABA
Acre	6579	1200203	CRUZEIRO DO SUL
Acre	6580	1200252	EPITACIOLÂNDIA
Acre	6581	1200302	FEIJÓ
Acre	6582	1200328	JORDÃO
Acre	6583	1200336	MÂNCIO LIMA
Acre	6584	1200344	MANOEL URBANO

Select municipio to change

Q

alto

Search

4 results (5572 total)

Action:

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Go

0 of 4 selected

<input type="checkbox"/>	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

Change municipio | D

localhost:8000/admin/brasil\_municipios/municipio/5726/change/?\_changelist\_filters=q%3Ddiadema%26state\_exact%3DSP

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: