# django-geoposition Documentation

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# Contents

A model field that can hold a geoposition (latitude/longitude), and corresponding admin widget.

CHAPTER 1

# Installation

- Use your favorite Python packaging tool to install `geoposition` from PyPI, e.g.:

  ```
  pip install django-geoposition
  ```

- Add `"geoposition"` to your `INSTALLED_APPS` setting:

  ```
  INSTALLED_APPS = (
      # ...
      "geoposition",
  )
  ```

- If you are still using Django <1.3, you are advised to install django-staticfiles for static file serving.

CHAPTER 2

# Usage

`django-geoposition` comes with a model field that makes it pretty easy to add a geoposition field to one of your models. To make use of it:

- In your `myapp/models.py`:

```
from django.db import models
from geoposition.fields import GeopositionField

class PointOfInterest(models.Model):
    name = models.CharField(max_length=100)
    position = GeopositionField()
```

- This enables the following simple API:

```
>>> from myapp.models import PointOfInterest
>>> poi = PointOfInterest.objects.get(id=1)
>>> poi.position
Geoposition(52.522906,13.41156)
>>> poi.position.latitude
52.522906
>>> poi.position.longitude
13.41156
```

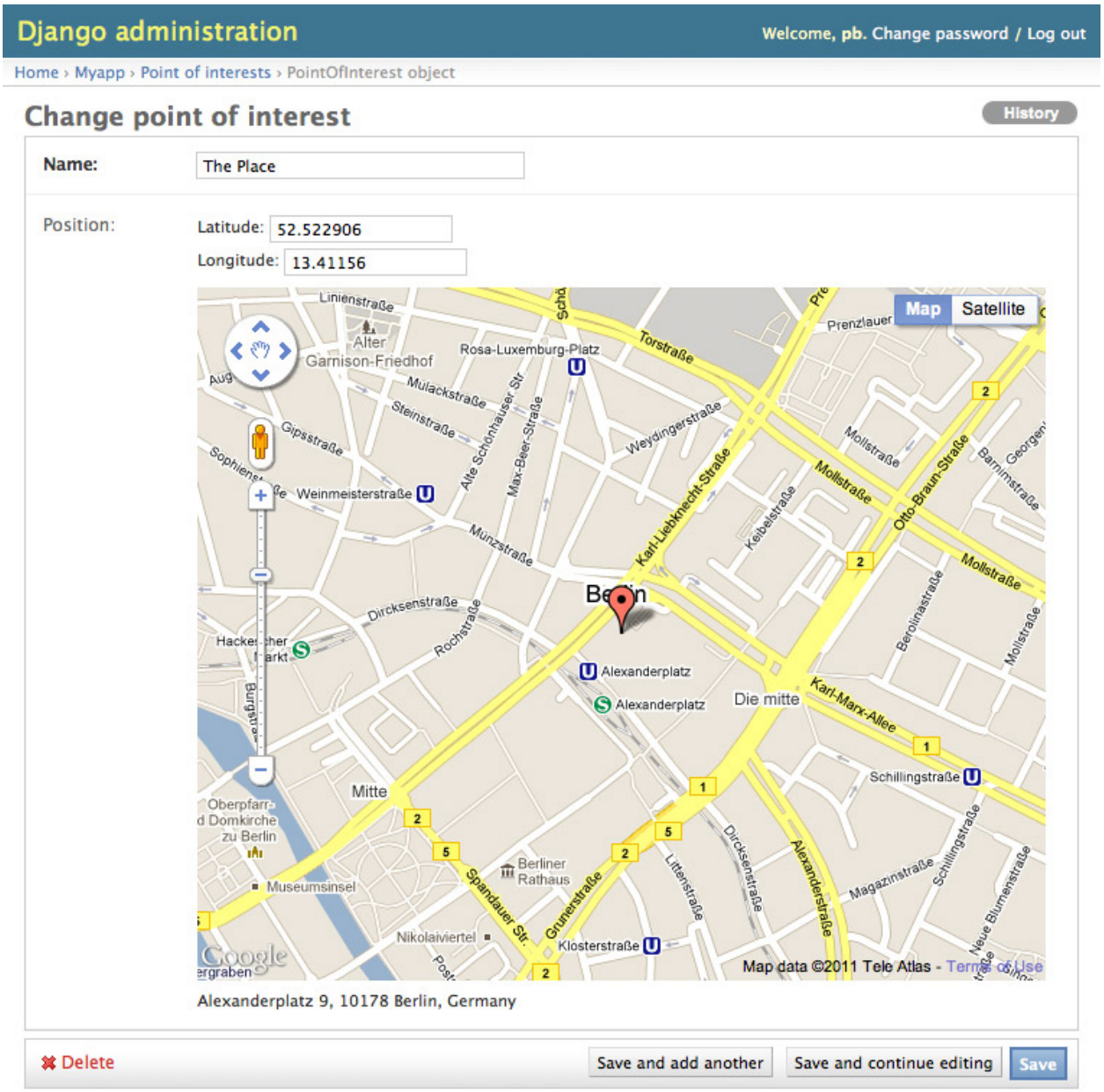
CHAPTER 3

# Form field and widget

## 3.1 Admin

If you use a `GeopositionField` in the admin it will automatically show a Google Maps widget with a marker at the currently stored position. You can drag and drop the marker with the mouse and the corresponding latitude and longitude fields will be updated accordingly.

It looks like this:




## 3.2 Regular Forms

Using the map widget on a regular form outside of the admin requires just a little more work. In your template make sure that

- jQuery is included
- the static files (JS, CSS) of the map widget are included (just use `{{ form.media }}`)

**Example**:

```
<script src="//ajax.googleapis.com/ajax/libs/jquery/1.8/jquery.min.js"></script>
<form method="POST" action="">{% csrf_token %}
    {{ form.media }}
```

```
    {{ form.as_p }}
</form>
```

CHAPTER 4

# Settings

At the moment there are no settings, but I should propably add some …