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# Django Highcharts Documentation

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Django Highchart will make it easier for you to display highcharts graphs.



# CHAPTER 1

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## Quickstart

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Install django-highcharts using pip (we do recommend to do it in a virtualenv).

```
git clone https://github.com/novapost/django-highcharts.git
cd django-highcharts
pip install -e ./
```

To integrate it into a Django project, simply add it to your *INSTALLED\_APPS*:

```
INSTALLED_APPS = [
    # some interesting stuff...
    'highcharts',
    # some other stuff...
]
```

Don't forget to set your *STATIC\_ROOT* path and to run the following command to update the static files:

```
python manage.py collectstatic
```

You're now ready to use the available views.

## 1.1 The view

```
from highcharts.views import HighChartsBarView

class BarView(HighChartsBarView):
    categories = ['Orange', 'Bananas', 'Apples']

    @property
    def series(self):
        result = []
        for name in ('Joe', 'Jack', 'William', 'Averell'):
            data = []
```

```
for x in range(len(self.categories)):
    data.append(random.randint(0, 10))
    result.append({'name': name, "data": data})
return result
```

## 1.2 The template

```
{% load staticfiles %}<!doctype html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <title>Hello</title>
    <script type="text/javascript" src="//ajax.googleapis.com/ajax/libs/jquery/1.9.1/
↪jquery.min.js"></script>
    <script type="text/javascript" src="{% static 'js/highcharts/highcharts.js' %}"></
↪script>
    <script type="text/javascript">
    $(function () {
        $.getJSON("{% url 'bar' %}", function(data) {
            $('#container').highcharts(data);
        });
    });
</script>
</head>
<body>
<div id="container" style="height: 300px"></div>
</body>
</html>
```

**Warning:** Please note that the highcharts.js file should be called **after** the JQuery library.



## 2.1 Views

### 2.1.1 Common options

Highchart views all share the same general options. If one of these options is not set by a class property or an instance property, it'll use the default value (generally `None`)

- `title`: The title of the graph
- `subtitle`: will display a subtitle. May contain HTML tags (including links)
- `tooltip_point_format`: formatting the tooltip over a data point using the Highchart appropriate format. (e.g.: `"{series.name} produced <b>{point.y:,.0f}</b><br/>warheads in {point.x}"`)
- `plot_options` (defaults to `{}`): this dictionary will be directly converted into a JSON object and assigned to the `data.plotOptions` property on the client-side (it was too difficult to cover all the cases implied by this dictionary.)

### 2.1.2 Basic usage

#### Overriding options

Any option (or parameter) is a property, but it can be easily replaced by a method if you need to generate it using code.

Examples:

```
class BarView(HighChartsBarView):
    title = 'My new (static) title'

class BarViewAgain(HighChartsBarView):
    @property
```

```
def title(self):  
    return 'My stats for %s' % datetime.date.today()
```

## 2.1.3 Available views

### HighChartsBarView

```
from highcharts.views import HighChartsBarView
```

#### Extra options

- `categories` (defaults to `[]`): should return a list of string,
- `y_axis_title` (defaults to `""`): the title of the Y axis.

### HighChartsStackedView

```
from highcharts.views import HighChartsStackedView
```

#### Extra options

Since it's a variant of the `HighChartsBarView`, it supports the same options.

### HighChartsLineView

```
from highcharts.views import HighChartsLineView
```

#### Extra options

- `categories` (defaults to `[]`): should return a list of string,
- `y_axis_title` (defaults to `""`): the title of the Y axis.

### HighChartsAreaView

```
from highcharts.views import HighChartsAreaView
```

#### Extra options

No extra options for the Area View (yet).

## CHAPTER 3

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### Indices and tables

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- `genindex`
- `modindex`
- `search`