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# **django-bootstrap4 Documentation**

***Release 0.0.7***

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## Contents

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<b>1</b>	<b>Installation</b>	<b>3</b>
<b>2</b>	<b>Quickstart</b>	<b>5</b>
2.1	Example template . . . . .	5
2.2	Template tags and filters . . . . .	6
2.3	Settings . . . . .	6
2.4	Demo application . . . . .	6
<b>3</b>	<b>Migration</b>	<b>7</b>
3.1	Icons . . . . .	7
<b>4</b>	<b>Template tags and filters</b>	<b>9</b>
4.1	bootstrap_form . . . . .	9
4.2	bootstrap_form_errors . . . . .	10
4.3	bootstrap_formset . . . . .	10
4.4	bootstrap_formset_errors . . . . .	11
4.5	bootstrap_field . . . . .	11
4.6	bootstrap_label . . . . .	13
4.7	bootstrap_button . . . . .	13
4.8	bootstrap_alert . . . . .	14
4.9	buttons . . . . .	15
4.10	bootstrap_messages . . . . .	15
4.11	bootstrap_pagination . . . . .	16
4.12	bootstrap_query_url . . . . .	16
4.13	bootstrap_javascript_url . . . . .	17
4.14	bootstrap_css_url . . . . .	17
4.15	bootstrap_css . . . . .	18
4.16	bootstrap_javascript . . . . .	18
<b>5</b>	<b>Settings</b>	<b>19</b>
<b>6</b>	<b>Templates</b>	<b>23</b>
6.1	bootstrap4/field_help_text_and_errors.html . . . . .	23
6.2	bootstrap4/form_errors.html . . . . .	23
6.3	bootstrap4/messages.html . . . . .	23
6.4	Other . . . . .	24

<b>7</b>	<b>Widgets</b>	<b>25</b>
7.1	RadioSelectButtonGroup . . . . .	25
<b>8</b>	<b>Contributing</b>	<b>27</b>
8.1	Types of Contributions . . . . .	27
8.2	Get Started! . . . . .	28
8.3	Pull Request Guidelines . . . . .	29
8.4	Tips . . . . .	29
<b>9</b>	<b>Authors</b>	<b>31</b>
9.1	Development Lead . . . . .	31
9.2	Contributors . . . . .	31
<b>10</b>	<b>History</b>	<b>33</b>
10.1	Development . . . . .	33
10.2	0.0.7 (2018-08-22) . . . . .	33
10.3	0.0.6 (2018-02-14) . . . . .	33
10.4	0.0.5 (2018-01-03) . . . . .	34
10.5	0.0.4 (2017-10-26) . . . . .	34
10.6	0.0.3 (2017-09-24) . . . . .	34
10.7	0.0.2 (2017-09-06, not released on PyPI) . . . . .	34
10.8	0.0.1 (2017-06-04) . . . . .	34
10.9	Unreleased (2017-04-25) . . . . .	34

Contents:



# CHAPTER 1

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## Installation

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The preferred way to install `django-bootstrap4` is `pip`:

```
$ pip install django-bootstrap4
```

Alternatively, you can install download or clone this repo and install from its folder with:

```
$ pip install -e .
```

In your project, you should add `django-bootstrap4` to your `requirements.txt`.

Be sure to use `virtualenv` if you develop python projects.

Add to `INSTALLED_APPS` in your `settings.py`:

```
'bootstrap4',
```

After installation, the [Quickstart](#) will get you on your way to using `django-bootstrap4`.





After *Installation*, you can use `django-bootstrap4` in your templates.:

Load the `bootstrap4` library and use the `bootstrap_*` tags:

## 2.1 Example template

```
{# Load the tag library #}
{% load bootstrap4 %}

{# Load CSS and JavaScript #}
{% bootstrap_css %}
{% bootstrap_javascript jquery='full' %}

{# Display django.contrib.messages as Bootstrap alerts #}
{% bootstrap_messages %}

{# Display a form #}
<form action="/url/to/submit/" method="post" class="form">
  {% csrf_token %}
  {% bootstrap_form form %}
  {% buttons %}
    <button type="submit" class="btn btn-primary">
      Submit
    </button>
  {% endbuttons %}
</form>

{# Read the documentation for more information #}
```

## 2.2 Template tags and filters

Refer to *Template tags and filters* for more information.

## 2.3 Settings

You can set defaults for `django-bootstrap4` in your settings file. Refer to *Settings* for more information.

## 2.4 Demo application

The demo application provides a number of useful examples.

<https://github.com/zostera/django-bootstrap4/tree/master/demo>

Below is a list of caveats when migrating from Bootstrap3/django-bootstrap3 to Bootstrap4/django-bootstrap4.

This document only considers the differences between django-bootstrap3 and django-bootstrap4. For the migration guide from Bootstrap 3 to 4, please look at the Bootstrap docs, especially the [Migration section](#).

### 3.1 Icons

Bootstrap 4 does not ship with an icon set, so everything regarding to icons has been removed.

If you need easy access to icons that are compatible with Bootstrap 4, please consider <https://github.com/zostera/django-fa>.



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## Template tags and filters

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**Note:** All the following examples it is understood that you have already loaded the `bootstrap4` template tag library, placing the code below in the beginning that each template that `bootstrap4` template tag library will be used. Read the *Installation* and *Quickstart* sections on how to accomplish this.

---

### 4.1 `bootstrap_form`

`bootstrap4.templatetags.bootstrap4.bootstrap_form(*args, **kwargs)`

Render a form

**Tag name:**

```
bootstrap_form
```

**Parameters:**

**form** The form that is to be rendered

**exclude** A list of field names (comma separated) that should not be rendered E.g. `exclude=subject,bcc`

See *`bootstrap_field`* for other arguments

**Usage:**

```
{% bootstrap_form form %}
```

**Example:**

```
{% bootstrap_form form layout='inline' %}
```

## 4.2 bootstrap\_form\_errors

`bootstrap4.templatetags.bootstrap4.bootstrap_form_errors(*args, **kwargs)`

Render form errors

**Tag name:**

```
bootstrap_form_errors
```

**Parameters:**

**form** The form that is to be rendered

**type** Control which type of errors should be rendered.

One of the following values:

- 'all'
- 'fields'
- 'non\_fields'

**default** 'all'

**layout** Context value that is available in the template `bootstrap4/form_errors.html` as `layout`.

**Usage:**

```
{% bootstrap_form_errors form %}
```

**Example:**

```
{% bootstrap_form_errors form layout='inline' %}
```

## 4.3 bootstrap\_formset

`bootstrap4.templatetags.bootstrap4.bootstrap_formset(*args, **kwargs)`

Render a formset

**Tag name:**

```
bootstrap_formset
```

**Parameters:**

**formset** The formset that is being rendered

See *bootstrap\_field* for other arguments

**Usage:**

```
{% bootstrap_formset formset %}
```

**Example:**

```
{% bootstrap_formset formset layout='horizontal' %}
```

## 4.4 bootstrap\_formset\_errors

`bootstrap4.templatetags.bootstrap4.bootstrap_formset_errors(*args, **kwargs)`

Render formset errors

**Tag name:**

```
bootstrap_formset_errors
```

**Parameters:**

**formset** The formset that is being rendered

**layout** Context value that is available in the template `bootstrap4/form_errors.html` as `layout`.

**Usage:**

```
{% bootstrap_formset_errors formset %}
```

**Example:**

```
{% bootstrap_formset_errors formset layout='inline' %}
```

## 4.5 bootstrap\_field

`bootstrap4.templatetags.bootstrap4.bootstrap_field(*args, **kwargs)`

Render a field

**Tag name:**

```
bootstrap_field
```

**Parameters:**

**field** The form field to be rendered

**layout** If set to `'horizontal'` then the field and label will be rendered side-by-side, as long as there is no `field_class` set as well.

**form\_group\_class** CSS class of the `div` that wraps the field and label.

**default** `'form-group'`

**field\_class** CSS class of the `div` that wraps the field.

**label\_class** CSS class of the `label` element. Will always have `control-label` as the last CSS class.

**show\_help** Show the field's help text, if the field has help text.

**default** `True`

**show\_label** Whether the show the label of the field.

**default** `True`

**exclude** A list of field names that should not be rendered

**size** Controls the size of the rendered `div.form-group` through the use of CSS classes.

One of the following values:

- 'small'
- 'medium'
- 'large'

**placeholder** Sets the placeholder text of a textbox

**horizontal\_label\_class** Class used on the label when the `layout` is set to `horizontal`.

**default** 'col-md-3'. Can be changed in [Settings](#)

**horizontal\_field\_class** Class used on the field when the `layout` is set to `horizontal`.

**default** 'col-md-9'. Can be changed in [Settings](#)

**addon\_before** Text that should be prepended to the form field. Can also be an icon, e.g. '`<span class="glyphicon glyphicon-calendar"></span>`'

See the *Bootstrap docs* [<http://getbootstrap.com/components/#input-groups-basic>](http://getbootstrap.com/components/#input-groups-basic) for more examples.

**addon\_after** Text that should be appended to the form field. Can also be an icon, e.g. '`<span class="glyphicon glyphicon-calendar"></span>`'

See the *Bootstrap docs* [<http://getbootstrap.com/components/#input-groups-basic>](http://getbootstrap.com/components/#input-groups-basic) for more examples.

**addon\_before\_class** Class used on the span when `addon_before` is used.

One of the following values:

- 'input-group-text'
- None

Set to None to disable the span inside the addon. (for use with buttons)

**default** input-group-text

**addon\_after\_class** Class used on the span when `addon_after` is used.

One of the following values:

- 'input-group-text'
- None

Set to None to disable the span inside the addon. (for use with buttons)

**default** input-group-text

**error\_css\_class** CSS class used when the field has an error

**default** 'has-error'. Can be changed [Settings](#)

**required\_css\_class** CSS class used on the `div.form-group` to indicate a field is required

**default** ''. Can be changed [Settings](#)

**bound\_css\_class** CSS class used when the field is bound

**default** 'has-success'. Can be changed [Settings](#)

**Usage:**



```
{% bootstrap_field field %}
```

**Example:**

```
{% bootstrap_field field show_label=False %}
```

## 4.6 bootstrap\_label

`bootstrap4.templatetags.bootstrap4.bootstrap_label(*args, **kwargs)`

Render a label

**Tag name:**

```
bootstrap_label
```

**Parameters:**

**content** The label's text

**label\_for** The value that will be in the `for` attribute of the rendered `<label>`

**label\_class** The CSS class for the rendered `<label>`

**label\_title** The value that will be in the `title` attribute of the rendered `<label>`

**Usage:**

```
{% bootstrap_label content %}
```

**Example:**

```
{% bootstrap_label "Email address" label_for="exampleInputEmail1" %}
```

## 4.7 bootstrap\_button

`bootstrap4.templatetags.bootstrap4.bootstrap_button(*args, **kwargs)`

Render a button

**Tag name:**

```
bootstrap_button
```

**Parameters:**

**content** The text to be displayed in the button

**button\_type** Optional field defining what type of button this is.

Accepts one of the following values:

- 'submit'
- 'reset'
- 'button'
- 'link'

**button\_class** The class of button to use. If none is given, btn-default will be used.

**extra\_classes** Any extra CSS classes that should be added to the button.

**size** Optional field to control the size of the button.

Accepts one of the following values:

- 'xs'
- 'sm'
- 'small'
- 'md'
- 'medium'
- 'lg'
- 'large'

**href** Render the button as an <a> element. The href attribute is set with this value. If a button\_type other than link is defined, specifying a href will throw a ValueError exception.

**name** Value of the name attribute of the rendered element.

**value** Value of the value attribute of the rendered element.

**Usage:**

```
{% bootstrap_button content %}
```

**Example:**

```
{% bootstrap_button "Save" button_type="submit" button_class="btn-primary" %}
```

## 4.8 bootstrap\_alert

`bootstrap4.templatetags.bootstrap4.bootstrap_alert` (*content*, *alert\_type=u'info'*, *dismissable=True*)

Render an alert

**Tag name:**

```
bootstrap_alert
```

**Parameters:**

**content** HTML content of alert

**alert\_type**

- 'info'
- 'warning'
- 'danger'
- 'success'

**default** 'info'

**dismissable** boolean, is alert dismissable

**default** True

**Usage:**

```
{% bootstrap_alert content %}
```

**Example:**

```
{% bootstrap_alert "Something went wrong" alert_type='error' %}
```

## 4.9 buttons

`bootstrap4.templatetags.bootstrap4.bootstrap_buttons` (*parser, token*)

Render buttons for form

**Tag name:**

```
buttons
```

**Parameters:**

**submit** Text for a submit button

**reset** Text for a reset button

**Usage:**

```
{% buttons %}{% endbuttons %}
```

**Example:**

```
{% buttons submit='OK' reset="Cancel" %}{% endbuttons %}
```

## 4.10 bootstrap\_messages

`bootstrap4.templatetags.bootstrap4.bootstrap_messages` (*context, \*args, \*\*kwargs*)

Show `django.contrib.messages` Messages in Bootstrap alert containers.

In order to make the alerts dismissable (with the close button), we have to set the `jquery` parameter too when using the `bootstrap_javascript` tag.

Uses the template `bootstrap4/messages.html`.

**Tag name:**

```
bootstrap_messages
```

**Parameters:**

None.

**Usage:**

```
{% bootstrap_messages %}
```

**Example:**

```
{% bootstrap_javascript jquery=True %}
{% bootstrap_messages %}
```

## 4.11 bootstrap\_pagination

`bootstrap4.templatetags.bootstrap4.bootstrap_pagination` (*page*, *\*\*kwargs*)

Render pagination for a page

**Tag name:**

```
bootstrap_pagination
```

**Parameters:**

**page** The page of results to show.

**pages\_to\_show** Number of pages in total

**default** 11

**url** URL to navigate to for pagination forward and pagination back.

**default** None

**size** Controls the size of the pagination through CSS. Defaults to being normal sized.

One of the following:

- 'small'
- 'large'

**default** None

**extra** Any extra page parameters.

**default** None

**parameter\_name** Name of the paging URL parameter.

**default** 'page'

**Usage:**

```
{% bootstrap_pagination page %}
```

**Example:**

```
{% bootstrap_pagination lines url="/pagination?page=1" size="large" %}
```

## 4.12 bootstrap\_jquery\_url

`bootstrap4.templatetags.bootstrap4.bootstrap_jquery_url` ()

**Tag name:**

```
bootstrap_jquery_url
```

Return the full url to jQuery plugin to use

Default value: `https://code.jquery.com/jquery-3.2.1.min.js`

This value is configurable, see Settings section

**Usage:**

```
{% bootstrap_jquery_url %}
```

**Example:**

```
{% bootstrap_jquery_url %}
```

## 4.13 bootstrap\_javascript\_url

`bootstrap4.templatetags.bootstrap4.bootstrap_javascript_url()`

Return the full url to the Bootstrap JavaScript library

Default value: `None`

This value is configurable, see Settings section

**Tag name:**

```
bootstrap_javascript_url
```

**Usage:**

```
{% bootstrap_javascript_url %}
```

**Example:**

```
{% bootstrap_javascript_url %}
```

## 4.14 bootstrap\_css\_url

`bootstrap4.templatetags.bootstrap4.bootstrap_css_url()`

Return the full url to the Bootstrap CSS library

Default value: `None`

This value is configurable, see Settings section

**Tag name:**

```
bootstrap_css_url
```

**Usage:**

```
{% bootstrap_css_url %}
```

**Example:**

```
{% bootstrap_css_url %}
```

## 4.15 bootstrap\_css

`bootstrap4.templatetags.bootstrap4.bootstrap_css()`

Return HTML for Bootstrap CSS. Adjust url in settings. If no url is returned, we don't want this statement to return any HTML. This is intended behavior.

Default value: None

This value is configurable, see Settings section

**Tag name:**

```
bootstrap_css
```

**Usage:**

```
{% bootstrap_css %}
```

**Example:**

```
{% bootstrap_css %}
```

## 4.16 bootstrap\_javascript

`bootstrap4.templatetags.bootstrap4.bootstrap_javascript(jquery=False)`

Return HTML for Bootstrap JavaScript.

Adjust url in settings. If no url is returned, we don't want this statement to return any HTML. This is intended behavior.

Default value: False

This value is configurable, see Settings section. Note that any value that evaluates to True and is not "slim" will be interpreted as True.

**Tag name:**

```
bootstrap_javascript
```

**Parameters:**

`jquery` False | "slim" | True (default=False)

**Usage:**

```
{% bootstrap_javascript %}
```

**Example:**

```
{% bootstrap_javascript jquery="slim" %}
```

## CHAPTER 5

---

### Settings

---

The django-bootstrap4 has some pre-configured settings.

They can be modified by adding a dict variable called `BOOTSTRAP4` in your `settings.py` and customizing the values you want;

The `BOOTSTRAP4` dict variable contains these settings and defaults:

```
# Default settings
BOOTSTRAP4 = {

    # The complete URL to the Bootstrap CSS file
    # Note that a URL can be either a string,
    # e.g. "https://stackpath.bootstrapcdn.com/bootstrap/4.1.1/css/bootstrap.min.css",
    # or a dict like the default value below.
    "css_url": {
        "href": "https://stackpath.bootstrapcdn.com/bootstrap/4.1.1/css/bootstrap.min.
↪css",
        "integrity": "sha384-WskhaSGFgHYWDcbwN70/dfYBj47jz9qbsMIId/
↪iRN3ewGhXQFZCSftd1LZCfmhktB",
        "crossorigin": "anonymous",
    },

    # The complete URL to the Bootstrap JavaScript file
    "javascript_url": {
        "url": "https://stackpath.bootstrapcdn.com/bootstrap/4.1.1/js/bootstrap.min.js
↪",
        "integrity": "sha384-smHYKdLADwkXOn1EmN1qk/HfnUcbVRZyYmZ4qpPea6sjB/
↪pTJ0euyQp0Mk8ck+5T",
        "crossorigin": "anonymous",
    },

    # The complete URL to the Bootstrap CSS file (None means no theme)
    "theme_url": None,

    # The URL to the jQuery JavaScript file (full)
```

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```

    "jquery_url": {
        "url": "https://code.jquery.com/jquery-3.3.1.min.js",
        "integrity": "sha384-tsQFqpEReu7ZLhBV2VZlAu7zcOV+rXbYlF2cqB8txI/
↪8aZajjp4Bqd+V6D5IgvKT",
        "crossorigin": "anonymous",
    },

    # The URL to the jQuery JavaScript file (slim)
    "jquery_slim_url": {
        "url": "https://code.jquery.com/jquery-3.3.1.slim.min.js",
        "integrity": "sha384-q8i/
↪X+965DzO0rT7abK41JStQIAqVgRVzpbzo5smXKp4YfRvH+8abtTElPi6jizo",
        "crossorigin": "anonymous",
    },

    # The URL to the Popper.js JavaScript file (slim)
    "popper_url": {
        "url": "https://cdnjs.cloudflare.com/ajax/libs/popper.js/1.14.3/umd/popper.
↪min.js",
        "integrity": "sha384-ZMP7rVo3mIykV+2+9J3UJ46jBk0WLaUAdn689aCwoqbBJiSnjAK/
↪l8WvCWPIpM49",
        "crossorigin": "anonymous",
    },

    # Put JavaScript in the HEAD section of the HTML document (only relevant if you
↪use bootstrap4.html)
    'javascript_in_head': False,

    # Include jQuery with Bootstrap JavaScript False/falsy/slim/full (default=False)
    # False - means tag bootstrap_javascript use default value - `falsy` and does not
↪include jQuery)
    'include_jquery': False,

    # Label class to use in horizontal forms
    'horizontal_label_class': 'col-md-3',

    # Field class to use in horizontal forms
    'horizontal_field_class': 'col-md-9',

    # Set placeholder attributes to label if no placeholder is provided
    'set_placeholder': True,

    # Class to indicate required (better to set this in your Django form)
    'required_css_class': '',

    # Class to indicate error (better to set this in your Django form)
    'error_css_class': 'has-error',

    # Class to indicate success, meaning the field has valid input (better to set
↪this in your Django form)
    'success_css_class': 'has-success',

    # Renderers (only set these if you have studied the source and understand the
↪inner workings)
    'formset_renderers': {
        'default': 'bootstrap4.renderers.FormsetRenderer',
    },

```

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```
'form_renderers': {
    'default': 'bootstrap4.renderers.FormRenderer',
},
'field_renderers': {
    'default': 'bootstrap4.renderers.FieldRenderer',
    'inline': 'bootstrap4.renderers.InlineFieldRenderer',
},
}
```



You can customize the output of `django-bootstrap4` by writing your own templates. These templates are available:

### 6.1 `bootstrap4/field_help_text_and_errors.html`

This renders the help text and error of each field.

Variable `help_text_and_errors` contains an array of strings.

### 6.2 `bootstrap4/form_errors.html`

This renders the non field errors of a form.

Variable `errors` contains an array of strings.

### 6.3 `bootstrap4/messages.html`

This renders the Django messages variable.

Variable `messages` contains the messages as described in <https://docs.djangoproject.com/en/dev/ref/contrib/messages/#displaying-messages>

`messages` is passed through three built-in filters

*safe* <<https://docs.djangoproject.com/en/dev/ref/templates/builtins/#std:templatefilter-safe>>

*urlize* <<https://docs.djangoproject.com/en/dev/ref/templates/builtins/#std:templatefilter-urlize>>

*linebreaksbr* <<https://docs.djangoproject.com/en/dev/ref/templates/builtins/#std:templatefilter-linebreaksbr>>

## 6.4 Other

There are two more templates, `bootstrap4/bootstrap4.html` and `bootstrap4/pagination.html`. You should consider these private for now, meaning you can use them but not modify them.

A form widget is available for displaying radio buttons as a Bootstrap 4 button group(<https://getbootstrap.com/docs/4.1/components/button-group/>).

### 7.1 RadioSelectButtonGroup

This renders a form ChoiceField as a Bootstrap 4 button group in the *primary* Bootstrap 4 color.

```
from bootstrap4.widgets import RadioSelectButtonGroup

class MyForm(forms.Form):
    media_type = forms.ChoiceField(
        help_text="Select the order type.",
        required=True,
        label="Order Type:",
        widget=RadioSelectButtonGroup,
        choices=((1, 'Vinyl'), (2, 'Compact Disc')),
        initial=1,
    )
```



Contributions are welcome, and they are greatly appreciated! Every little bit helps, and credit will always be given. You can contribute in many ways:

## 8.1 Types of Contributions

### 8.1.1 Report Bugs

Report bugs at <https://github.com/zostera/django-bootstrap4/issues>.

If you are reporting a bug, please include:

- Your operating system name and version.
- Any details about your local setup that might be helpful in troubleshooting.
- Detailed steps to reproduce the bug.

### 8.1.2 Fix Bugs

Look through the GitHub issues for bugs. Anything tagged with “bug” is open to whoever wants to implement it.

### 8.1.3 Implement Features

Look through the GitHub issues for features. Anything tagged with “feature” is open to whoever wants to implement it.

### 8.1.4 Write Documentation

django-bootstrap4 could always use more documentation, whether as part of the official django-bootstrap4 docs, in docstrings, or even on the web in blog posts, articles, and such.

### 8.1.5 Submit Feedback

The best way to send feedback is to file an issue at <https://github.com/zostera/django-bootstrap4/issues>.

If you are proposing a feature:

- Explain in detail how it would work.
- Keep the scope as narrow as possible, to make it easier to implement.
- Remember that this is a volunteer-driven project, and that contributions are welcome :)

## 8.2 Get Started!

Ready to contribute? Here's how to set up *django-bootstrap4* for local development.

1. Fork the *django-bootstrap4* repo on GitHub.
2. Clone your fork locally:

```
$ git clone https://github.com/your_username_here/django-bootstrap4.git
```

3. Install your local copy into a virtualenv. Assuming you have virtualenvwrapper installed, this is how you set up your fork for local development:

```
$ mkvirtualenv django-bootstrap4
$ cd django-bootstrap4/
$ python setup.py develop
```

4. Create a branch for local development:

```
$ git checkout -b name-of-your-bugfix-or-feature
```

Now you can make your changes locally.

5. When you're done making changes, check that your changes pass flake8 and the tests, including testing other Python versions with tox:

```
$ flake8 bootstrap4 tests
$ python setup.py test
$ tox
```

To get flake8 and tox, just pip install them into your virtualenv.

6. Commit your changes and push your branch to GitHub:

```
$ git add .
$ git commit -m "Your detailed description of your changes."
$ git push origin name-of-your-bugfix-or-feature
```

7. Submit a pull request through the GitHub website.



## 8.3 Pull Request Guidelines

Before you submit a pull request, check that it meets these guidelines:

1. The pull request should include tests.
2. If the pull request adds functionality, the docs should be updated. Put your new functionality into a function with a docstring, and add the feature to the list in README.rst.
3. The pull request should work for Python 2.6, 2.7, and 3.3, and for PyPy. Check [https://travis-ci.org/dyve/django-bootstrap4/pull\\_requests](https://travis-ci.org/dyve/django-bootstrap4/pull_requests) and make sure that the tests pass for all supported Python versions.

## 8.4 Tips

To run a subset of tests:

```
$ python -m unittest tests.test_bootstrap4
```



This application is developed and maintained by [Zostera](#).

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### 10.1 Development

- Drop support for the *base\_url* setting (#105)
- Remove use of “falsy” as a string literal (#111)
- Fix javascript inclusion bugs (#71)

### 10.2 0.0.7 (2018-08-22)

- Improve alert accessibility (#93)
- Add a new widget: RadioSelectButtonGroup (#103)
- Several fixes and improvements to HTML rendering
- Switch to explicit Travis tests
- Upgrade Bootstrap to 4.1.1
- Upgrade jQuery to 3.3.1
- Upgrade Popper to 1.14.3
- Fixed bootstrap4.html to add jQuery per setting ‘include\_jquery’ [False/True/‘full’/‘slim’]
- Adopt Black formatting, see <https://github.com/ambv/black>

### 10.3 0.0.6 (2018-02-14)

- Change form help text element from div to small (#60)
- Upgrade Bootstrap to 4.0.0 (#66)

## 10.4 0.0.5 (2018-01-03)

- Drop develop branch, work with master and feature branches
- Clean up history file
- Upgrade Bootstrap to 4.0.0-beta.3
- Use *col-4* rather than *col-xs-4* (#54)
- Added pagination alignment options (#56)
- Fixed form field errors and help texts (#39)
- Use django language if `USE_I18N=True` (#53)

## 10.5 0.0.4 (2017-10-26)

- Upgrade Bootstrap to 4.0.0-beta.2
- Fix settings, tags and tests for remote JS and CSS

## 10.6 0.0.3 (2017-09-24)

- Upgraded bootstrap4 to the beta version

## 10.7 0.0.2 (2017-09-06, not released on PyPI)

- Upgraded jQuery version from CDN to 3.2.1 (#17)
- Added proper pagination layout classes (#19)

## 10.8 0.0.1 (2017-06-04)

- First release

## 10.9 Unreleased (2017-04-25)

- Remove *bootstrap\_icon*, BS4 no longer has default icons.
- Various changes to get from 3 to 4, started `MIGRATE.rst`.
- Started *django-bootstrap4* based on *django-bootstrap3*.
- Thanks everybody that contributed to *django-bootstrap3*!

## B

<code>bootstrap_alert()</code>	(in module <code>strap4.templatetags.bootstrap4</code> ), 14	boot-
<code>bootstrap_button()</code>	(in module <code>strap4.templatetags.bootstrap4</code> ), 13	boot-
<code>bootstrap_buttons()</code>	(in module <code>strap4.templatetags.bootstrap4</code> ), 15	boot-
<code>bootstrap_css()</code>	(in module <code>strap4.templatetags.bootstrap4</code> ), 18	boot-
<code>bootstrap_css_url()</code>	(in module <code>strap4.templatetags.bootstrap4</code> ), 17	boot-
<code>bootstrap_field()</code>	(in module <code>strap4.templatetags.bootstrap4</code> ), 11	boot-
<code>bootstrap_form()</code>	(in module <code>strap4.templatetags.bootstrap4</code> ), 9	boot-
<code>bootstrap_form_errors()</code>	(in module <code>strap4.templatetags.bootstrap4</code> ), 10	boot-
<code>bootstrap_formset()</code>	(in module <code>strap4.templatetags.bootstrap4</code> ), 10	boot-
<code>bootstrap_formset_errors()</code>	(in module <code>strap4.templatetags.bootstrap4</code> ), 11	boot-
<code>bootstrap_javascript()</code>	(in module <code>strap4.templatetags.bootstrap4</code> ), 18	boot-
<code>bootstrap_javascript_url()</code>	(in module <code>strap4.templatetags.bootstrap4</code> ), 17	boot-
<code>bootstrap_jquery_url()</code>	(in module <code>strap4.templatetags.bootstrap4</code> ), 16	boot-
<code>bootstrap_label()</code>	(in module <code>strap4.templatetags.bootstrap4</code> ), 13	boot-
<code>bootstrap_messages()</code>	(in module <code>strap4.templatetags.bootstrap4</code> ), 15	boot-
<code>bootstrap_pagination()</code>	(in module <code>strap4.templatetags.bootstrap4</code> ), 16	boot-