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# **django-bidi-utils Documentation**

***Release 1.0***

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# CONTENTS

<b>1</b>	<b>django-bidi-utils</b>	<b>3</b>
1.1	Documentation . . . . .	3
1.2	Quickstart . . . . .	3
1.3	Features . . . . .	3
<b>2</b>	<b>Installation</b>	<b>5</b>
<b>3</b>	<b>Usage</b>	<b>7</b>
3.1	Settings . . . . .	7
3.2	Template context variables . . . . .	7
3.3	<i>add_direction</i> filter . . . . .	8
<b>4</b>	<b>Contributing</b>	<b>11</b>
4.1	Types of Contributions . . . . .	11
4.2	Get Started! . . . . .	12
4.3	Pull Request Guidelines . . . . .	12
4.4	Tips . . . . .	13
<b>5</b>	<b>Credits</b>	<b>15</b>
5.1	Development Lead . . . . .	15
5.2	Contributors . . . . .	15
<b>6</b>	<b>History</b>	<b>17</b>
6.1	1.0 (2013-10-19) . . . . .	17
6.2	0.2.1 (2009-05-18) . . . . .	17
6.3	0.2 (2009-05-17) . . . . .	17
6.4	0.1 (2009-04-28) . . . . .	17



Contents:



# DJANGO-BIDI-UTILS

Provides context processors and filters for handling **Bi-directional** (BiDi) in django templates, adding some needed functionality to Django's `LANGUAGE_BIDI` template var.

## 1.1 Documentation

The full documentation is at <http://django-bidi-utils.rtfld.org>.

## 1.2 Quickstart

Install `django-bidi-utils`:

```
pip install django-bidi-utils
```

To use it in a Django project add *bidiutils* the project's `INSTALLED_APPS` setting:

```
INSTALLED_APPS = (  
    "django.contrib.auth",  
    "django.contrib.contenttypes",  
    "django.contrib.sites",  
    ...  
    "bidiutils",  
    ...  
)
```

To enable the context processor, add it to `TEMPLATE_CONTEXT_PROCESSORS` settings:

```
TEMPLATE_CONTEXT_PROCESSORS = (  
    "django.core.context_processors.auth",  
    "django.core.context_processors.debug",  
    "django.core.context_processors.i18n",  
    "django.core.context_processors.media",  
    ...  
    "bidiutils.context_processors.bidi",  
)
```

## 1.3 Features

- Context processor adding to templates passed a RequestContext BiDi related variables.

- *add\_direction* template filter, for adding direction to media resource (images, stylesheets, etc)



# INSTALLATION

At the command line:

```
$ easy_install django-bidi-utils
```

Or, if you have virtualenvwrapper installed:

```
$ mkvirtualenv django-bidi-utils  
$ pip install django-bidi-utils
```



# USAGE

## 3.1 Settings

To use it in a Django project add *bidiutils* the project's `INSTALLED_APPS` setting:

```
INSTALLED_APPS = (
    "django.contrib.auth",
    "django.contrib.contenttypes",
    "django.contrib.sites",
    ...
    "bidiutils",
    ...
)
```

To enable the context processor, add it to `TEMPLATE_CONTEXT_PROCESSORS` settings:

```
TEMPLATE_CONTEXT_PROCESSORS = (
    "django.core.context_processors.auth",
    "django.core.context_processors.debug",
    "django.core.context_processors.i18n",
    "django.core.context_processors.media",
    ...
    "bidiutils.context_processors.bidi",
)
```

## 3.2 Template context variables

If you've added *bidiutils.context\_processors.bidi* to `TEMPLATE_CONTEXT_PROCESSORS` settings, you'll have additional variables in the template context for templates using a [RequestContext](#):

***LANGUAGE\_DIRECTION*** Direction of current language (*ltr* or *rtl*). The following common idiom:

```
{% load i18n %}<html dir="{{ LANGUAGE_BIDI|yesno:'rtl,ltr' }}">
```

Can be re-written as:

```
{% load i18n %}<html dir="{{ LANGUAGE_DIRECTION }}">
```

***LANGUAGE\_START*** Start of language layout (*right* for RTL, *left* for LTR). Useful in cases you want to align elements with inline style etc:

```
<div style="float: {{LANGUAGE_START}}">
```

**LANGUAGE\_END** End of language layout (*left* for RTL, *right* for LTR). Just like *LANGUAGE\_START*, but denotes the other side. A sample usage with [Bootstrap's glyphs](#) to display an arrow going from language start to end:

```
<span class="glyphicon glyphicon-arrow-{{ LANGUAGE_END }}"></span>
```

**LANGUAGE\_MARKER** Language marker entity (*&rlm;* for RTL, *&lm;* for LTR). Those marker are inserted into a location to make an enclosed weak character inherit its writing direction.

Those are important to keep the flow correct in case of a weak directional character between to elements of the other direction. Take this template fragment for example:

```
{{ user1.full_name }}: {{post1.title}}
{{ user2.full_name }}: {{post2.title}}
```

assuming your current language's direction is RTL, and user2's full name and post title are in LTR (e.g: both in English) while user one's are RTL The result will be rendered as (using UPPERCASE without actual content do demonstrate):

```
USER1_POST_TITLE :USER1_FULLNAME
USER2_FULLNAME: USER2_POST_TITLE
```

This is because the ':' is weak character inheriting the direction for surrounding element(s). Inserting the current language marker ensures the correct layout

```
{{ user1.full_name }}{{LANGUAGE_MARKER}}: {{post1.title}}
{{ user2.full_name }}{{LANGUAGE_MARKER}}: {{post2.title}}
```

For more information see [Bi-Directional text - Unicode support](#).

### 3.3 *add\_direction* filter

Adds direction to the element. Make sure to load *bidiutils\_tags* to use the filter which accepts a single, optional, argument:

**rtl\_only** Add the direction only in case of a right-to-left language. The default if no argument is passed.

**both** Add the direction in both cases

**ltr\_only** Add the direction only in case of a left-to-right language

Assuming the current language is RTL, and *image* in the context is "*arrow.png*":

```
{% load bidiutils_tags %}





```

The rendered result will be:

```




```

On the other hand, Assuming the current language is LTR, and *image* in the context is “*arrow.png*”, the rendered result of the above template would be:

```
  
  
  

```



# CONTRIBUTING

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

## 4.1 Types of Contributions

### 4.1.1 Report Bugs

Report bugs at <https://github.com/MeirKriheli/django-bidi-utils/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.

### 4.1.2 Fix Bugs

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

### 4.1.3 Implement Features

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

### 4.1.4 Write Documentation

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

### 4.1.5 Submit Feedback

The best way to send feedback is to file an issue at <https://github.com/MeirKriheli/django-bidi-utils/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 :)

## 4.2 Get Started!

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

1. Fork the *django-bidi-utils* repo on GitHub.

2. Clone your fork locally:

```
$ git clone git@github.com:your_name_here/django-bidi-utils.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-bidi-utils
$ cd django-bidi-utils/
$ 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 bidiutils 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.

## 4.3 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/MeirKriheli/django-bidi-utils/pull\\_requests](https://travis-ci.org/MeirKriheli/django-bidi-utils/pull_requests) and make sure that the tests pass for all supported Python versions.



## 4.4 Tips

To run a subset of tests:

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



# CREDITS

## 5.1 Development Lead

- Meir Kriheli <[mkriheli@gmail.com](mailto:mkriheli@gmail.com)>

## 5.2 Contributors

None yet. Why not be the first?



# HISTORY

## 6.1 1.0 (2013-10-19)

- Testing for Python 3.3, 2.7 and 2.6 Compatibility.
- Removed buildout.
- Re-Based on Cookiecutter.
- Sphinx for docs, added more examples.

## 6.2 0.2.1 (2009-05-18)

- Forgot CHANGELOG.rst in MANIFEST.in.

## 6.3 0.2 (2009-05-17)

- Added template filter *add\_direction*.
- Removed *README*, add MANIFEST.in which includes *README.rst*.

## 6.4 0.1 (2009-04-28)

- Initial release, context processors.