
django-mustachejs Documentation

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The docs are available at <http://django-jstemplate.readthedocs.org/>. Please update your references.

Migration is easy:

- In your settings' `INSTALLED_APPS`, `mustachejs` becomes `jstemplate`
- `MUSTACHEJS_...` settings become `JSTEMPLATE_...`
- In your Django templates, `{% load mustachejs %}` becomes `{% load jstemplate %}`

That's it. If you have any issues, get in touch with me on GitHub or on Twitter [@mjumbewu](#). Thanks for using the project!

DJANGO-MUSTACHEJS

A templatetag framework for easier integration of [mustache.js](#) JavaScript templates with Django templates. Inspired by [ICanHaz.js](#), [django-icanhaz](#), and [jquery.mustache](#).

1.1 Quickstart

1.1.1 Dependencies

Tested with [Django](#) 1.3 through trunk, and [Python](#) 2.6 and 2.7. Almost certainly works with older versions of both.

1.1.2 Installation

Install from PyPI with `pip`:

```
pip install django-mustachejs
```

or get the in-development version:

```
pip install django-mustachejs==dev
```

1.1.3 Usage

- Add `"mustachejs"` to your `INSTALLED_APPS` setting.
- In your HTML header, include your desired version of `mustache.js`. This application comes with two versions of the library available at `mustache/js/mustache-<version>.js`. The versions shipped with `django-mustache` are `0.3.0` and `0.4.0-dev`.
- `{% load mustachejs %}` and use `{% mustachejs "templatename" %}` in your Django templates to safely embed the `mustache.js` template at `<MUSTACHEJS_DIRS-entry>/templatename.html` into your Django template. It will be stored in the `Mustache.TEMPLATES` object as a string, accessible as `Mustache.TEMPLATES.templatename`.
- In your JavaScript, use `Mustache.to_html(Mustache.TEMPLATES.templatename, {...}, Mustache.TEMPLATES)` to render your `mustache` template. Alternatively, if you include the `mustache/js/django.mustache.js` script in your HTML, you can use `Mustache.template('templatename').render({...})` to render your `mustache` template.

1.1.4 An Example

For example consider the files `app/jstemplates/main.mustache`:

```
<div>
  <p>This is {{ name }}'s template</p>
</div>
```

and `app/templates/main.html`:

```
{% load mustachejs %}

<html>
<head>
  <script src="https://ajax.googleapis.com/ajax/libs/jquery/1.7.1/jquery.js"></script>

  <script src="{{ STATIC_URL }}mustache/js/mustache-0.3.0.js"></script>
  <script src="{{ STATIC_URL }}mustache/js/django.mustache.js"></script>
</head>

<body>
  <div id="dynamic-area"></div>

  {% mustachejs "main" %}

  <script>
    $(document).ready(function() {

      var $area = $('#dynamic-area')
        , template;

      // Either render by accessing the TEMPLATES object
      // directly...

      $area.html(Mustache.to_html(Mustache.TEMPLATES.main));

      // ...or render by using a cached template object
      // (requires django.mustache.js)

      template = Mustache.template('main');
      $area.html(template.render());

    });
  </script>
</body>
</html>
```

1.1.5 What's going on?

Any time you use the `mustachejs` template tag:

```
{% load mustachejs %}
{% mustachejs "main" %}
```

`django-mustachejs` will generate the following:

```
<script>Mustache.TEMPLATES=Mustache.TEMPLATES||{};Mustache.TEMPLATES['main']='<div>\n  <p>This is {{
```

This stores the text of the template in an attribute on the `Mustache.TEMPLATES` object (it will first create the object if it does not yet exist). The `Mustache.template(...)` function then creates an object with a `render(...)` method that has a similar signature as `Mustache.to_html(...)`, except without the template name as the first parameter. The `render` method will also use the set of templates in `Mustache.TEMPLATES` as partials, allowing any template that `django-mustachejs` knows about to be used as a template partial as well.

1.1.6 Flavors of Mustache

In addition to `{% mustachejs ... %}`, `django-mustachejs` comes with several template tags that you can use to render your mustache templates:

- `{% dustjs ... %}` renders templates ready for consumption by `dust.js`
- `{% mustacheich ... %}` renders templates ready for consumption by `ICanHaz.js`
- `{% mustacheraw ... %}` renders the raw contents of a mustache template, after preprocessing

1.1.7 Matching Multiple Template Files

The name provided to the template tag can be a string that will match a single file, a file glob pattern, or a regular expression. Using the template tag `{% mustachejs [glob/regex] %}` in your Django templates will embed all files matching that regex in the template directories. So, `{% mustachejs '(*_template)' %}` and `{% mustachejs '*_template' %}` would both match `note_template.html` and `comment_template.html`, giving them templatenames `note_template` and `comment_template`, respectively. (Note that the regular expression pattern must contain parentheses denoting a single matching group; this group will become the name of the template).

1.2 Internationalization (i18n)

`django-mustachejs` supports internationalization tags. In your settings module, set the `MUSTACHEJS_I18N_TAGS` variables (default: `('_', 'i18n')`). These tags can be used to preprocess the javascript templates into translatable content. For example:

```
<div>{{#_}}Hello, {{name}}. I like your {{color}} {{thing}}?{{/_}}</div>
```

may render to:

```
<div>Salut, {{name}}. J'aime votre {{thing}} {{color}}?</div>
```

The translatable strings will be picked up by Django's `makemessages` management command.

1.2.1 Under the hood

In order to avoid having to send our project's translation mapping to the client, we have built-in the ability to preprocess `i18n` tags in the mustache templates.

There aren't any nice solutions here. The code behind `makemessages` unfortunately isn't extensible, so we can:

- Duplicate the command + code behind it.
- Offer a separate command for Mustache tag extraction.
- Try to get Django to offer hooks into `makemessages`.
- Monkey-patch.

We are currently doing that last thing. In this case we override the `templatize` method. `templatize` takes a template, extracts the translatable strings (along with desired metadata), and generates a file that `xgettext` knows how to parse, e.g. a file with Python syntax. We override this function to find Mustache-tagged strings if the file that we are templating is in one of the paths found by the active `MUSTACHEJS_FINDERS`.

1.3 Settings

- Set `MUSTACHEJS_FINDERS` to configure the dotted class names of the finders the application will use. By default, this is the following list:

```
["mustachejs.finders.FilesystemFinder",
 "mustachejs.finders.AppFinder",
 "mustachejs.finders.FilesystemRegexFinder",
 "mustachejs.finders.AppRegexFinder",]
```

- Set the `MUSTACHEJS_DIRS` setting to a list of full (absolute) path to directories where you will store your mustache templates. By default this is an empty list.
- Set `MUSTACHEJS_APP_DIRNAMES` to a list of directory names that can be found under directories of applications specified in `INSTALLED_APPS`. By default, this setting has the value of `["jstemplates"]`.
- Set the `MUSTACHEJS_EXTS` setting to a list of the app should search for to find template files. By default this is set to `['mustache', 'html']`. Order matters (e.g., `*.mustache` will take precedence over `*.html`).
- Set the `MUSTACHEJS_PREPROCESSORS` variable to control how the templates are preprocessed. By default, there is one preprocessor activated:

```
['mustachejs.preprocessors.I18nPreprocessor']
```

The `I18nPreprocessor` will translate marked strings before rendering the template. To disable this feature, set `MUSTACHEJS_PREPROCESSORS` to an empty list.

- Set `MUSTACHEJS_I18N_TAGS` to the names of the tags used to mark strings for internationalization. By default, this is set to the list:

```
["_", "i18n"]
```

Meaning that text falling between the tags `{{#_}}...{{/_}}` and `{{#i18n}}...{{/i18n}}` will be marked for translation.

1.4 Advanced usage

1.4.1 Custom Finders

The finding of templates can be fully controlled via the `MUSTACHEJS_FINDERS` setting, which is a list of dotted paths to finder classes. A finder class should be instantiable with no arguments, and have a `find(name)` method which returns either (1) the full absolute path to a template file, given a base-name, or (2) a list of (template name, template file path) pairs according to the given base name.

By default, `MUSTACHEJS_FINDERS` contains `"mustachejs.finders.FilesystemFinder"` (which searches directories listed in `MUSTACHEJS_DIRS`), `"mustachejs.finders.AppFinder"` (which searches subdirectories named in `MUSTACHEJS_APP_DIRNAMES` of each app in `INSTALLED_APPS`), `"mustachejs.finders.FilesystemRegexFinder"`, and `"mustachejs.finders.AppRegexFinder"`, in that order – thus templates found in `MUSTACHEJS_DIRS`

take precedence over templates in apps, and templates identified by file glob patterns take precedence over those identified by regular expression patterns.

1.4.2 Custom Preprocessors

Before your JavaScript templates are placed into your Django templates, they are run through preprocessors. By default, the only preprocessor enabled is for [internationalization \(i18n\)](#). The `i18n` preprocessor finds all text between `{{#_}}` and `{{/_}}`, translates it with `gettext`, and inserts the translated text into the template, stripping the `{{#_}}` and `{{/_}}` tags.

You can build your own preprocessors as well. A good use would be to do things like including generated URLs in your templates. For example, in your template, when you have `{{reverse_url 'my_url_name'}}`, you might want to run that through Django's `reverse` method.

A preprocessor class is pretty simple. All it requires is a method with the following signature:

```
def process(self, content):  
    ...
```

Where `content` is the actual text of the JS template. Then, just add the dotted name of your class to the `MUSTACHEJS_PREPROCESSORS` settings variable.

1.4.3 Custom Flavors

It is simple to extend `django-mustachejs` to prepare your mustache templates to be used with your favorite Javascript library creating a template node class that derives from `mustachejs.templatetags.BaseMustacheNode`, and overriding a single function. Refer to the existing tag definitions for `mustachejs`, `mustacheich`, `mustacheraw`, and `dustjs` for more information.

1.5 Source

The source for `django-mustachejs` is available on [GitHub](#)