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# Flask-Milligram

*Release 0.1.0*

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**Oct 13, 2021**



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Milligram — a minimalist CSS framework — helper for Jinja2 template engine in Flask.



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## 1.1 Basic

### 1.1.1 Installation

Install Flask-Milligram from PyPI:

```
$ pip install flask-milligram
```

### 1.1.2 Initialization

```
from flask_milligram import Milligram
from flask import Flask

app = Flask(__name__)

milligram = Milligram(app)
```

Flask-Milligram also supports factory pattern. For example:

```
def create_app(config_filename):
    app = Flask(__name__)
    app.config.from_pyfile(config_filename)

    # import Milligram instance from another file like extensions.py
    milligram.init_app(app)
```

Read [Flask documentation](#) for more details.

### 1.1.3 Load Resources

Flask-Milligram provides two methods to load related resources in the template: `load_css()` and `load_js()`.

Call them in your base template first:

```
<head>
....
{{ milligram.load_css() }}
</head>
```

(continues on next page)

(continued from previous page)

```
<body>
...
{{ milligram.load_js() }}
</body>
```

By default, normalize.css and milligram.css will be loaded from CDN. You can also set `MILLIGRAM_SERVE_LOCAL` to `True` to use built-in local files. Please note that these two methods are not optional, that is to say, Flask-Milligram won't work without the specific resources — `milligram-extensions.css` and `milligram-extensions.js`. However, you can customize them anytime you want.

### 1.1.4 Base Template

Here is an example base template you can use:

```
<!doctype html>
<html lang="en">
  <head>
    {% block head %}
    <meta charset="utf-8">
    <meta name="viewport" content="width=device-width, initial-scale=1, shrink-to-
    ↳fit=no">

    {% block styles %}
    {{ milligram.load_css() }}
    {% endblock %}

    <title>Page title</title>
    {% endblock %}
  </head>
  <body>
    {% block content %}{% endblock %}

    {% block scripts %}
    {{ milligram.load_js() }}
    {% endblock %}
  </body>
</html>
```

### 1.1.5 Macros

Macro	Templates Path	Description
<code>render_navbar()</code>	<code>milligram/nav.html</code>	Render a navigation header
<code>render_breadcrumb()</code>	<code>milligram/nav.html</code>	Render a navigation breadcrumb
<code>render_pagination()</code>	<code>milligram/pagination.html</code>	Render a Flask-SQLAlchemy pagination
<code>render_badge()</code>	<code>milligram/utilities.html</code>	Render a badge

Import the macros above from the corresponding path and call them in template engine:



```
{% from 'milligram/pagination.html' import render_pagination %}

{{ render_pagination(pagination) }}
```

Go to the [Macros](#) page to see more details.

## 1.1.6 Configurations

Configuration Variable	Default Value	Description
MIL-LIGRAM_SERVE_LOCAL	False	If set to True, local resources will be used for load_css methods.

## 1.2 Macros

### 1.2.1 render\_navbar()

Render a navigation header

#### Example

```
{% from 'milligram/nav.html' import render_navbar %}

{{ render_navbar([('index', 'Home'), ('other', 'Other'), ('about', 'About')]) }}
```

#### API

**render\_navbar**(*navigation*)

**Parameters navigation** – An array-like object contains at least one sub array-like object whose first element is the endpoint used to generate URL and second is the text displayed.

### 1.2.2 render\_breadcrumb()

Render a navigation breadcrumb.

## Example

```
{% from 'milligram/nav.html' import render_breadcrumb %}

{{ render_breadcrumb([('index', 'Home'), ('other', 'Other'), ('about', 'About')], use_
  ↳ol=True)}}}
```

## API

**render\_breadcrumb**(*navigation*, *use\_ol=False*)

### Parameters

- **navigation** – An array-like object contains at least one sub array-like object whose first element is the endpoint used to generate URL and second is the text displayed.
- **use\_ol** – Default to generate <ul></ul>, if set to True, it will generate <ol></ol>.

### 1.2.3 render\_pagination()

Render a Flask-SQLAlchemy pagination.

## Example

```
{% from 'milligram/pagination.html' import render_pagination %}

{{ render_pagination(pagination) }}
```

## API

**render\_pagination**(*pagination*, *fragment=""*, *endpoint=None*, *ellipses='...'*)

### Parameters

- **pagination** – A Flask-SQLAlchemy `Pagination` instance.
- **fragment** – URL fragment added into link.
- **endpoint** – Endpoint to call when a page number is clicked.
- **ellipses** – Symbol to use to indicate that pages have been skipped.

### 1.2.4 render\_badge()

Render a badge.

#### Example

```
{% from 'milligram/utilities.html' import render_badge %}

{{ render_badge('Badge') }}
```

#### API

**render\_badge**(*text*, *small=False*)

##### Parameters

- **text** – Text displayed in the badge.
- **small** – Default to generate a normal size badge, if set to True, it will generate a small size badge.

## 1.3 Run the example application

Input these commands in the terminal to run the example application:

```
$ git clone https://github.com/ImJuanan/flask-milligram.git
$ cd flask-milligram/examples
$ pipenv install
$ pipenv run python app.py
```

Now go to <http://localhost:5000>.



## CHANGELOG

### 2.1 Flask-Milligram Changelog

#### 2.1.1 0.1.0

Release date: 2021/10/07

- Initial release.



## DEVELOPMENT

All kinds of contributions are meaningful. You can build the development environment locally and run tests using tox with the following commands:

```
$ git clone https://github.com/ImJuanan/flask-milligram.git
$ cd flask-milligram
$ pipenv install
$ pipenv run pip install ".[dev]"
$ pipenv run tox
```

If you are not familiar with Pipenv, this way is gonna work as well:

```
$ git clone https://github.com/ImJuanan/flask-milligram.git
$ cd flask-milligram
$ python -m venv env
$ env/Scripts/activate
$ pip install ".[dev]"
$ tox
```





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**AUTHORS**

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## **LICENSE**

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