Flask

web development,
one drop at a time

a gentle introduction into a microframework
with good intentions

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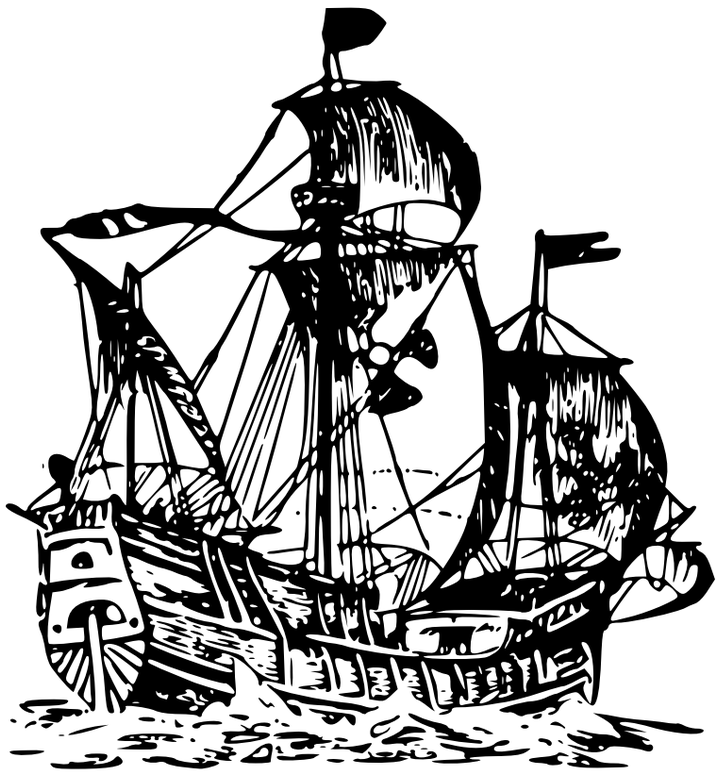
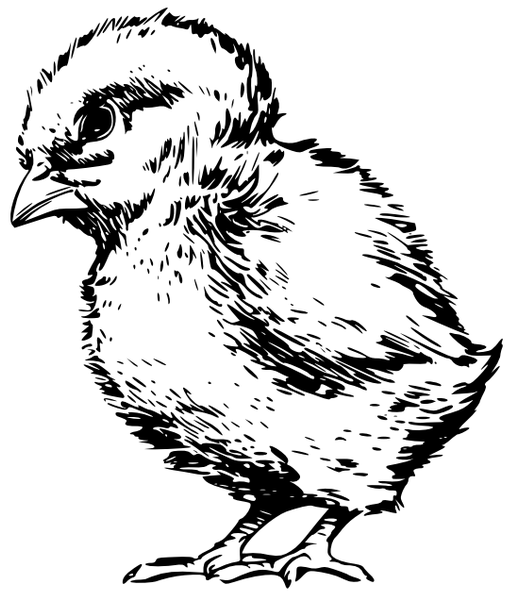
What is Flask?



- A microframework
- Reusing existing code
- Lots of documentation
- Neat way to write small apps

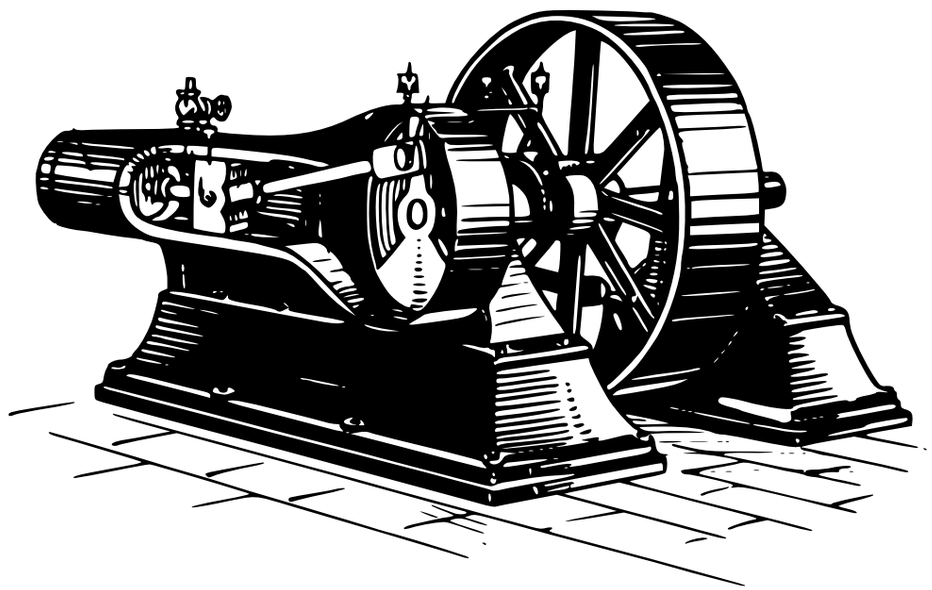
Another μFramework?

YES!



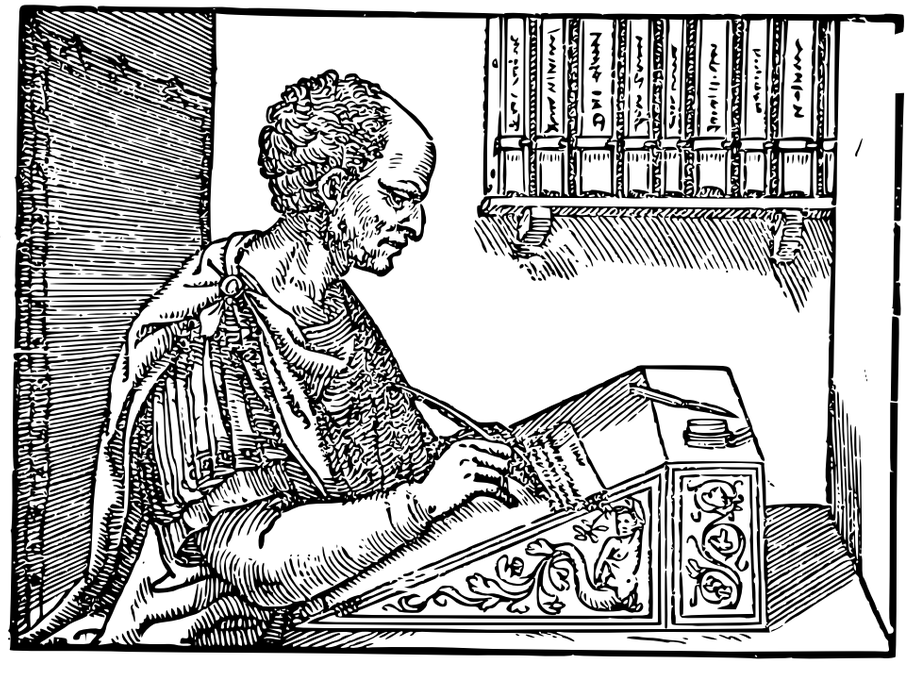
Under the Hood

- Full power of Werkzeug
- Jinja2 as a capable template engine



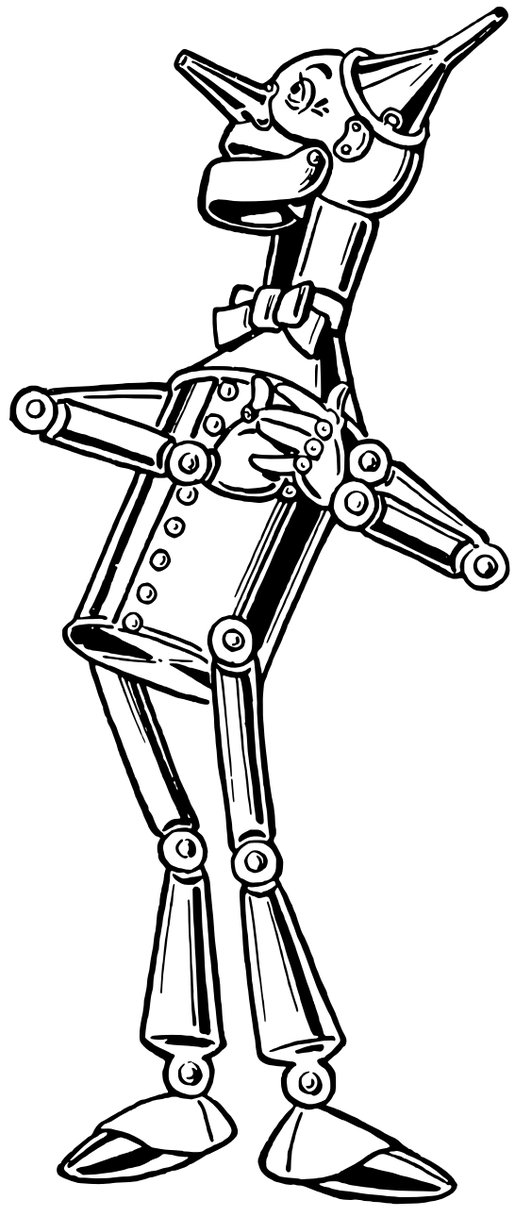
Under the Hood

- 450 Lines of actual Code
- 1000 Lines of Tests
- 5000 Lines of Documentation



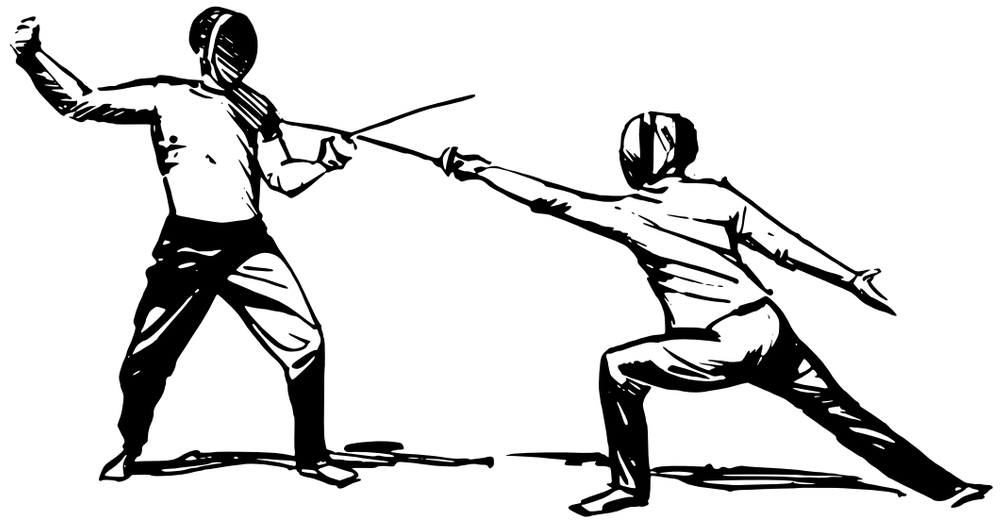
What does it do?

- Cookie-based session support
- Flashing of messages
- Preconfigured Jinja2 with autoescaping
- Serves static files from “static”
- Before/After Request hooks
- Context local objects
- *RESTful* URL mapping



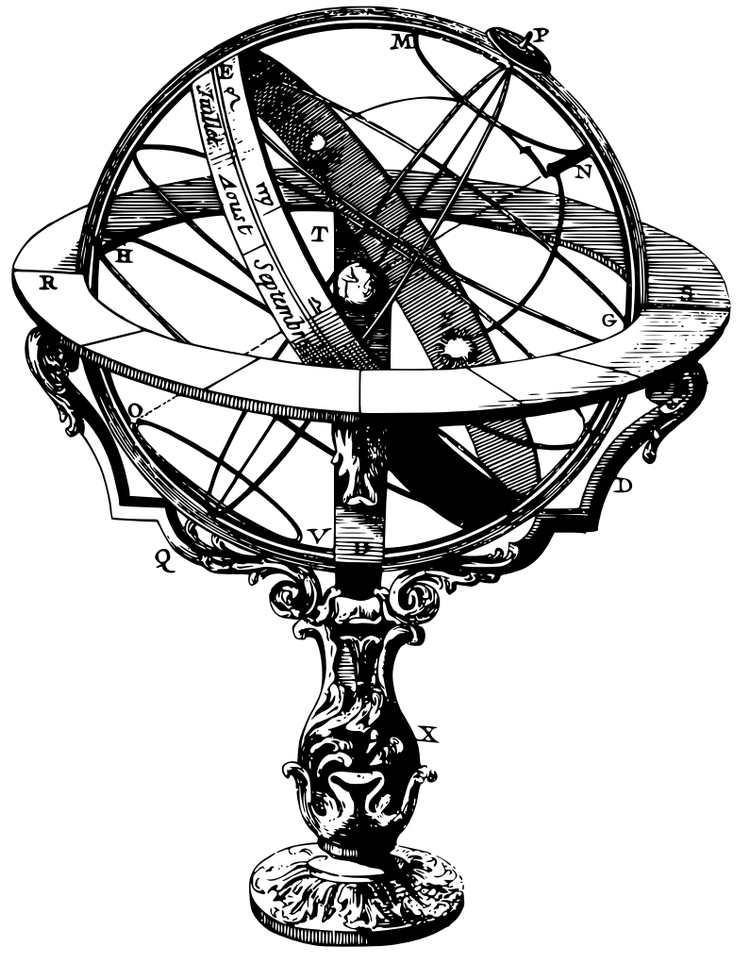
What else?

- Lots of documentation (120 A4 pages)
- Website with lots of snippets
- Extension registry (OAuth, OpenID, XML-RPC, CSRF protection ...)
- Active Mailinglist and IRC Channel



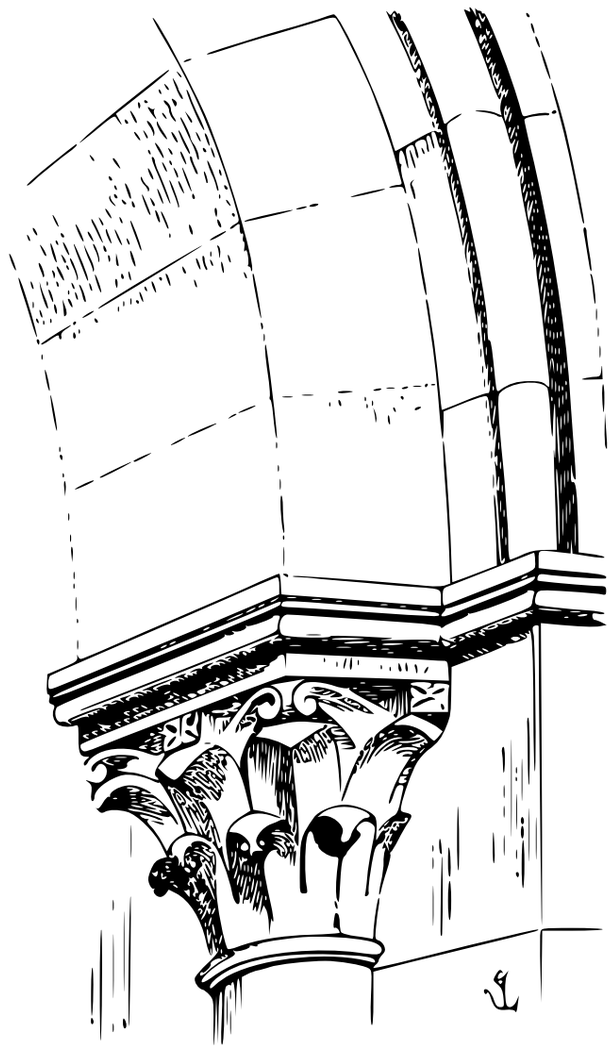
Hello Flask

```
from flask import Flask
app = Flask(__name__)

@app.route('/')
def index():
    return 'Hello World!'

if __name__ == '__main__':
    app.run(debug=True)
```



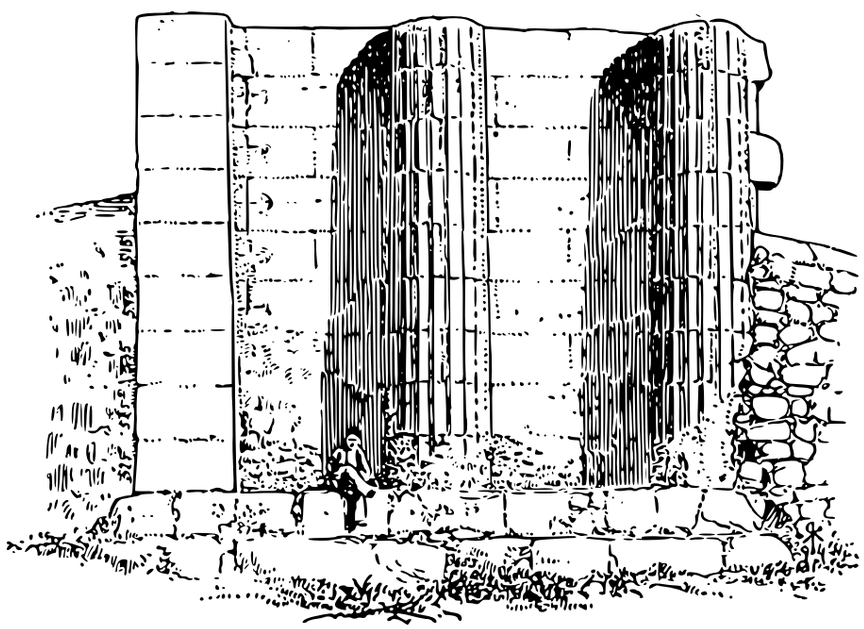
Hello Localhost

```
$ python hello.py
 * Running on http://127.0.0.1:5000/
 * Restarting with reloader...
```



Rendering Templates

```
from flask import render_template

@app.route('/')
def index():
    return render_template('index.html',
        variable='value'
    )
```

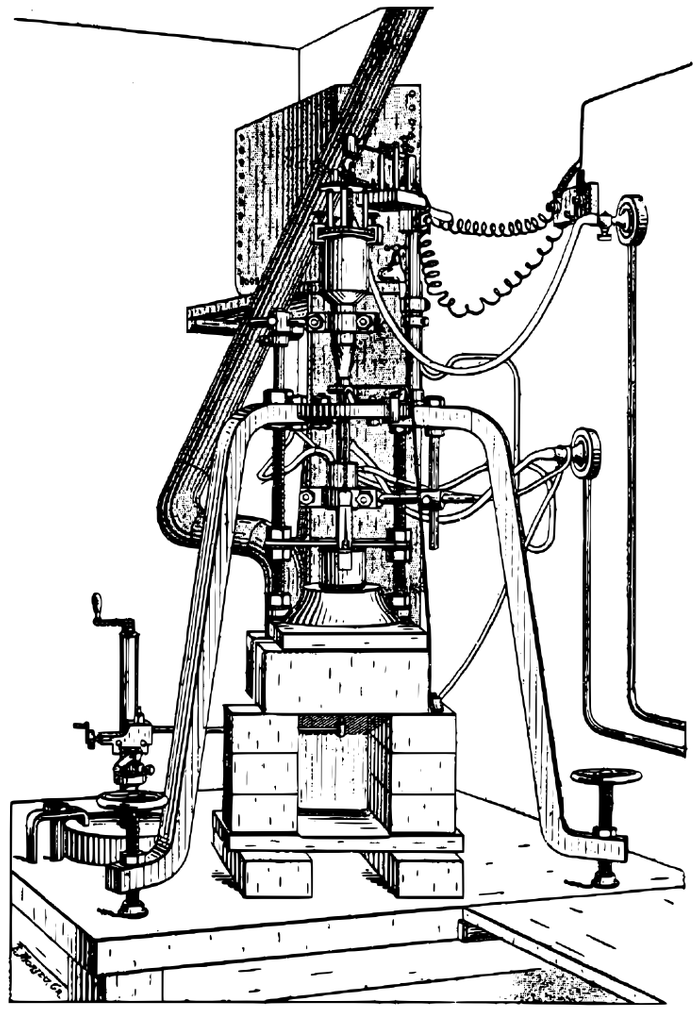


The Request Data

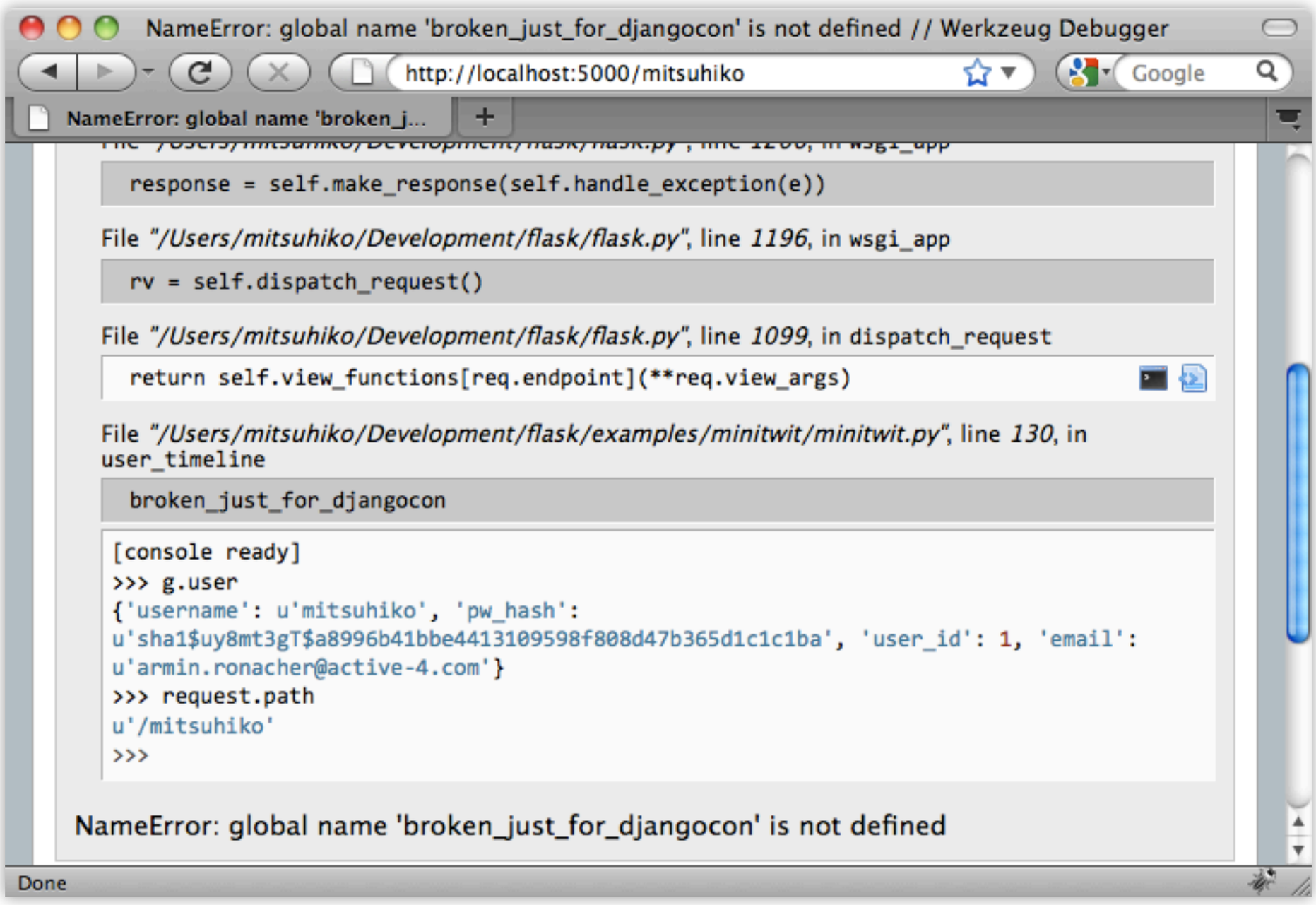
```
from flask import request, flash, redirect, \
     url_for, request

@app.route('/new-comment', methods=['GET', 'POST'])
def new_comment():
    if request.method == 'POST':
        Comment(request.form['name'],
                request.form['text']).save()
        flash('Comment was added')
        return redirect(url_for('show_comments'))
    return render_template('new_comment.html')
```

Before/After Request

```
import sqlite3
from flask import g

@app.before_request
def before_request():
    g.db = sqlite3.connect(…)

@app.after_request
def after_request(response):
    g.db.close()
    return response
```



If Things Break



Where to get?

```
$ pip install Flask
```

http://github.com/mitsuhiko/flask

http://flask.pocoo.org/