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Werkzeug (/p/werkzeug/)

## Werkzeug

```
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```

werkzeug German noun: "tool". Etymology: werk ("work"), zeug ("stuff")

Werkzeug is a comprehensive WSGI (https://wsgi.readthedocs.io/en/latest/) web application library. It began as a simple collection of various utilities for WSGI applications and has become one of the most advanced WSGI utility libraries.

Flask (/p/flask) wraps Werkzeug, using it to handle the details of WSGI while providing more structure and patterns for defining powerful applications.

```
from werkzeug.wrappers import Request, Response

@Request.application
def application(request):
    return Response("Hello, World!")

if __name__ == "__main__":
    from werkzeug.serving import run_simple
    run_simple("localhost", 5000, application)
```

## Werkzeug includes:

- An interactive debugger that allows inspecting stack traces and source code in the browser with an interactive interpreter for any
  frame in the stack.
- A full-featured request object with objects to interact with headers, query args, form data, files, and cookies.
- A response object that can wrap other WSGI applications and handle streaming data.
- A routing system for matching URLs to endpoints and generating URLs for endpoints, with an extensible system for capturing variables from URLs.
- · HTTP utilities to handle entity tags, cache control, dates, user agents, cookies, files, and more.
- A threaded WSGI server for use while developing applications locally.
- · A test client for simulating HTTP requests during testing without requiring running a server.

Werkzeug is Unicode aware and doesn't enforce any dependencies. It is up to the developer to choose a template engine, database adapter, and even how to handle requests. It can be used to build all sorts of end user applications such as blogs, wikis, or bulletin boards.

• pallets/werkzeug (https://github.com/pallets/werkzeug)

- **■** Releases on PyPI (https://pypi.python.org/pypi/Werkzeug)
- Test status (https://travis-ci.org/pallets/werkzeug)
- Documentation (https://werkzeug.palletsprojects.com/)

## Latest Release

Version: 1.0.0

(https://github.com/pallets/) **y** (https://twitter.com/PalletsTeam/) </>
(https://github.com/pallets/website/tree/master/content/projects/werkzeug/c