

# Overview



Introducing Flask

Requirements

Create a web app and run it

How do URL mappings work?

Common problems

Debugger



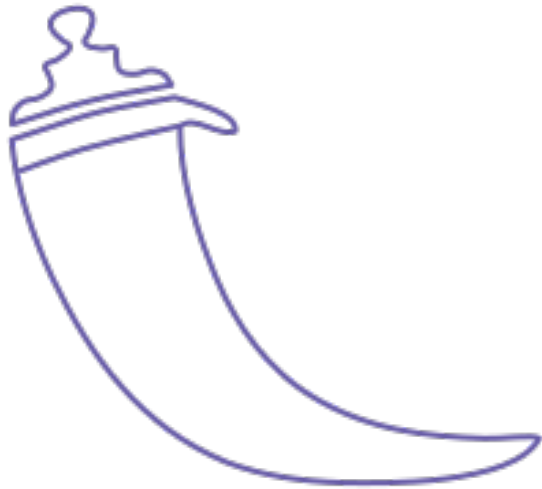
Microframework

Minimal features

Minimal code



# Why Choose Flask?



## Clean and Simple

- Small app in a single Python file

## Un-opinionated

- Flexible
- Choose the components you need

## Well-documented

## Popular

# Included with Flask

**Jinja 2**  
**Templates**

**Werkzeug**  
**HTTP and routing**

**Development server**  
**and debugger**

**Unit testing support**



# Prerequisites



Basics of  
**Python, pip**

Latest version of Python 3



Basics of  
**Web Development**

HTML, CSS, (HTTP)



# Demo



**Install Flask**

**Create a web application**

**Run the web application**

**View the site in a browser**



# Demo



Flask and the flow of control

Understanding URL mapping

The debugger



# Control flow is dictated by incoming HTTP Requests

A view function is only called if its URL is requested (visited in browser)





```
python -m pip install flask
```

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## Installing Flask

**Make sure to install in an active virtual environment**

**PyCharm creates the environment for you**

**Anaconda comes with Flask installed by default**



```
from flask import Flask
```

```
app = Flask(__name__)
```

## Creating the Flask Application Object

**The app object represents our web application**



```
@app.route("/my_url")  
def my_view_func():  
    return "This is an example page."
```

---

## View Functions

URLs must start with a slash

There is no connection between URL and function name

When a request comes in for `/my_url`, the function will be called



```
# Location of module containing our application
export FLASK_APP=flashcards.py
# Enable development features like debugging
export FLASK_ENV=development
flask run
```

## Running Flask

On windows use **set** instead of **export**

Don't add spaces around equals sign

If server does not start, try **python -m flask run**

Press Ctrl + C to stop the server



Do NOT use the Flask  
development server  
in production



# Summary



Introducing Flask

Create a web app and run it

View functions

URL mappings with `app.route()`

