

# Flask Cheatsheet

## Basic Setup

- ``pip install flask`` - installs the Flask package
- ``from flask import Flask`` - imports the Flask module
- ``app = Flask(__name__)`` - creates a new Flask application instance

## Routing

- ``@app.route('/path')`` - decorates a function with a specified URL path
- ``@app.route('/path/<variable>')`` - captures a URL variable and passes it to the function
- ``@app.route('/path', methods=['GET', 'POST'])`` - specifies the HTTP methods that are allowed for the specified URL path

## Request Handling

- ``request`` - a global variable that provides access to the request data
- ``request.args`` - a dictionary containing the URL query parameters
- ``request.form`` - a dictionary containing the form data from a POST request
- ``request.method`` - a string containing the HTTP method used for the request

## Response Handling

- ``return 'string'`` - returns a plain text response
- ``return render_template('template.html')`` - returns an HTML response using a template file
- ``return jsonify(data)`` - returns a JSON response
- ``abort(status_code)`` - aborts the request and returns a specified HTTP status code

## Templates

- ``render_template('template.html')`` - renders a specified HTML template
- ``{{ variable }}`` - inserts a variable value into the template

- ``{% if condition %} ... {% endif %}`` - executes code based on a specified condition
- ``{% for item in collection %} ... {% endfor %}`` - iterates over a collection and executes code for each item

## Sessions

- ``session`` - a global variable that provides access to the session data
- ``session['key'] = value`` - sets a session variable
- ``session.pop('key', None)`` - removes a session variable