



Flask Fundamentals

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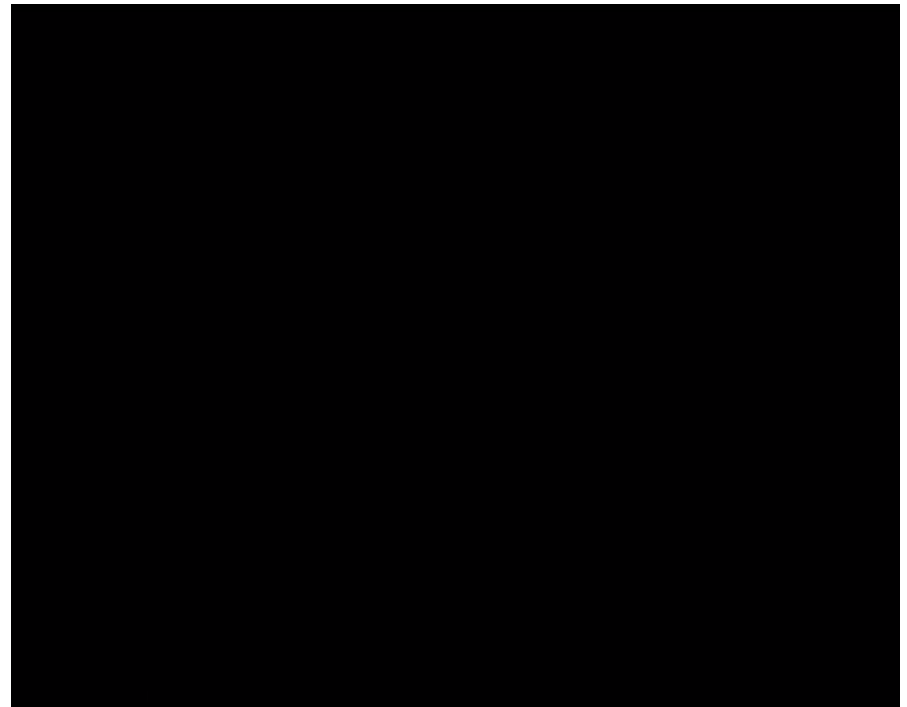
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Templates



With our Flask templates, there are 2 special inputs that we can use to insert python code.

1. `{{ some variable }}`
2. `{% some expression %}`

Let's see this in action. **First, create a new project folder called `test_templates`. Place a server, inside this folder.**

This is how our server.py will look:

```
from flask import Flask, render_template
app = Flask(__name__)
@app.route('/')
def index():
    return render_template("index.html", phrase="hello", times=5)
app.run(debug=True)
```

Now in your templates folder, create a file and call it *index.html*:

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```
<html>
<head>
  <title>My First Template</title>
</head>
<body>
  <h3>My first flask template with embedded python</h3>
  <!-- this will output the value of our phrase variable -->
  <p>Phrase: {{ phrase }}</p>

  <!-- this will output the value of our times variable -->
  <p>Times: {{ times }}</p>

  <!-- here is an example of embedding a for-loop in our code -->
  {% for x in range(0,times): %}
  <p>{{ phrase }}</p>
  {% endfor %}

  <!-- here is an example of embedding an if statement in our code -->
  {% if phrase == "hello" %}
  <p>The phrase says hello</p>
  {% endif %}
</body>
</html>
```

In the above code, we used the different embedding tags to output some of our variables, insert conditional checking with an if statement in our HTML template. It's especially important to see passed into our template from our server file in the embedding tags.

These tags allow us to control what gets rendered (if statements), how many times something g values to our rendered html.

As we've been learning a little bit about templates, what we actually have been using is a template engine. Jinja2 is a very powerful template engine that has a lot of cool built in features that allow us to place dynamic information on HTML pages. Check out the documentation here: Jinja2 Template Docs (<http://jinja.pocoo.org/docs/dev/templates/>)

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