

Nitrous - getting started

- 1) - create a box show that the box works and python works
- 2) exit python. cd to workspace make a new directory sample1
- 3) cd sample1
- 4) virtualenv venv --distribute
- 5) source venv/bin/activate
- 6) pip install flask markdown mysql-python

now I will write a simple flask application

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

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

if __name__ == '__main__':
    app.run(host='0.0.0.0')
```

add a few more pages

variables

```
@app.route('/user/<username>')
def show_user_profile(username):
    # show the user profile for that user
    return 'User %s' % username

@app.route('/post/<int:post_id>')
def show_post(post_id):
    # show the post with the given id, the id is an integer
    return 'Post %d' % post_id
```

templates

often we want to separate how things look from the logic of our program.
that way a designer can work on how things look and you can work on what you are good at, coding.

In flask we can create templates — they go in a templates directory

```
<html>
<head>
  <title>{{title}} - microblog</title>
</head>
<body>
  <h1>Hello, {{user.nickname}}!</h1>
</body>
</html>
```

```
@app.route('/hello/<title>')
def helloz(title):
    user = {'nickname': 'Lefty'}
    return render_template('hello2.html', title=title, user=user)
```

YOU TRY

If statements

```
<html>
<head>
  {% if title %}
  <title>{{title}} - microblog</title>
  {% else %}
  <title>Welcome to microblog</title>
  {% endif %}
</head>
<body>
  <h1>Hello, {{user.nickname}}!</h1>
```

```
</body>
</html>
```

Can you make special messages for Ann vs. someone else?

Loops

```
slogans.html
<html>
  <head>
    {% if title %}
    <title>{{title}} - microblog</title>
    {% else %}
    <title>microblog</title>
    {% endif %}
  </head>
  <body>
    <h1>Hi, {{user.nickname}}!</h1>
    {% for post in posts %}
    <p>{{post.author.nickname}} says: <b>{{post.body}}</b></p>
    {% endfor %}
  </body>
</html>
```

and the code

```
@app.route('/blog')
def index():
    user = { 'nickname': 'Mitsugo' } # fake user
    posts = [ # fake array of posts
        {
            'author': { 'nickname': 'John' },
            'body': 'Beautiful day in Portland!'
        },
        {
            'author': { 'nickname': 'Susan' },
            'body': 'The Avengers movie was so cool!'
        }
    ]
    return render_template("slogans.html",
        title = 'Home',
```

```
user = user,  
posts = posts)
```

next -> the worksheet

getting started with mysql

parts install mysql (do this once)

parts start mysql (when you start the box)

parts stop mysql (when you want to stop the server)

to run the mysql client

references

<http://flask.pocoo.org/docs/quickstart/>