

Python/Django Workshop

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Overview

PEP8

Python and Python Internals

Quick review of Django, ~MVC

Django Internal Apps

South, Celery

Dig into django

Gunicorn, Supervisor, Nginx

PEP8 – Zen of python

- + Beautiful is better than ugly.
- + Simple is better than complex.
- + Complex is better than complicated.
- + Readability counts.
- + Special cases aren't special enough to break the rules.
- + Errors should never pass silently.

import this

Python

...

Python - virtualenv

```
$ >>> ~/.bashrc cat <<<EOT  
source /usr/local/bin/virtualenvwrapper.sh  
EOT
```

```
$ mkvirtualenv demo
```

```
(demo)$
```

```
(demo)$ which python
```

```
(demo)$ deactivate
```

```
$ which python
```

Python – super powers

Functions

Lambda

Generator

Wrapper function?

Decorator?

Python – magic functions

`__setattr__`

`__getattr__`

`__str__`

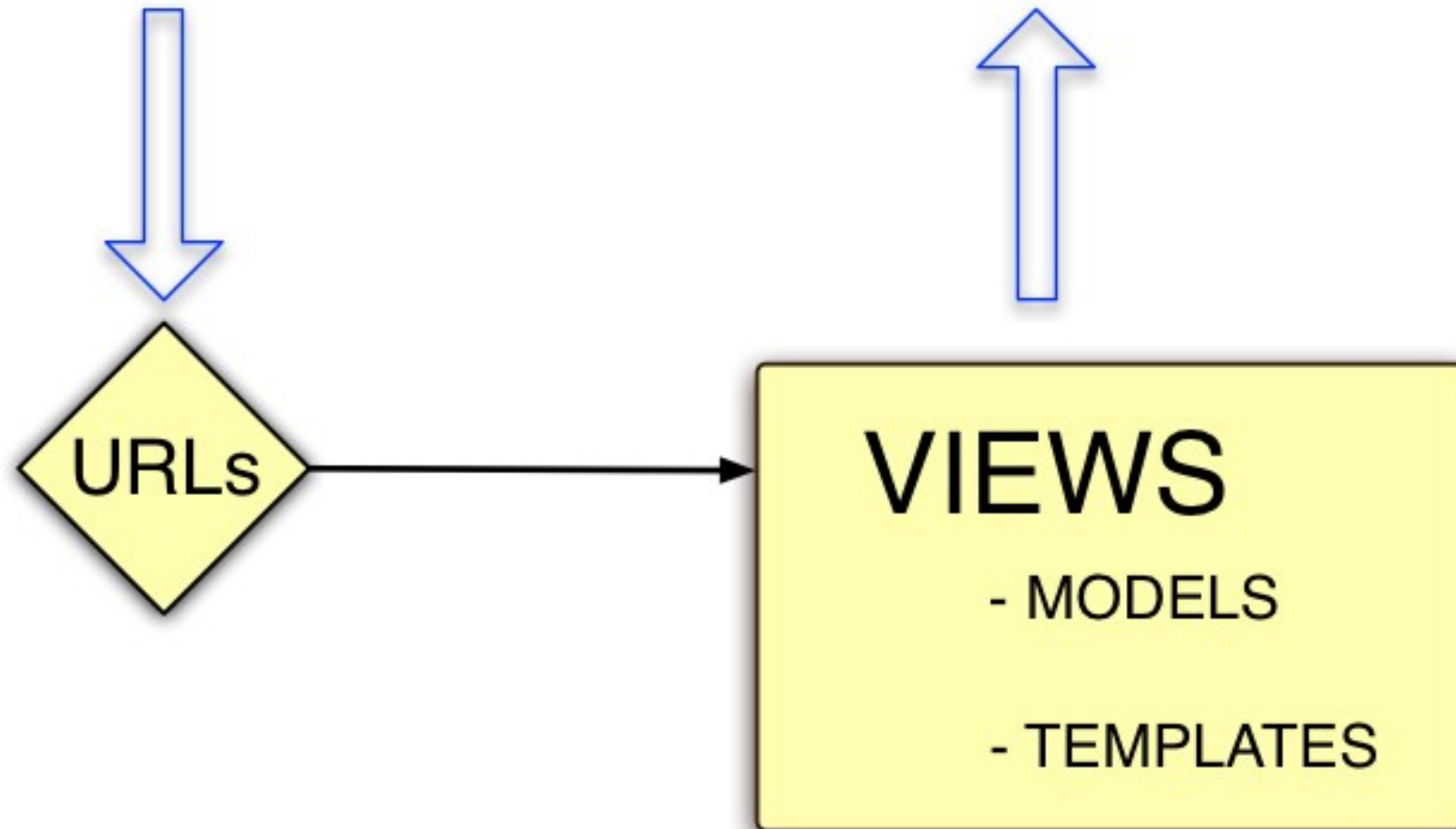
`__unicode__`

Many more...

Django

HTTP Request

HTTP Response



Django

```
$ django-admin.py startproject demo
```

Django

```
$ python manage.py startapp myapp
```

Django – lets explore

- + `django.conf`
- + `django.views.generic`
- + `django.db.models`
- ...

gunicorn

Python WSGI HTTP Server

```
$ gunicorn demo.wsgi:application --bind 8001
```

Celery

Distributed Task Queue

```
$ celery worker -A demo -l INFO
```

```
$ celery beat -A demo -l INFO
```

Supervisor

Supervisor allows us to monitor and control multiple processes

```
$ echo_supervisord_conf
```

Questions?