

# DJANGO

## To get started:

- + Install [Python 2.7+](#)
- + Install [Django](#)

## Follow along with this presentation!

<http://pramodk.net/django/>

**Repo:** <https://github.com/k-pramod/shortlink>

JAMIE  
FOXX

CHRISTOPH  
WALTZ

LEONARDO  
DICAPRIO

KERRY  
WASHINGTON

AND SAMUEL L.  
JACKSON

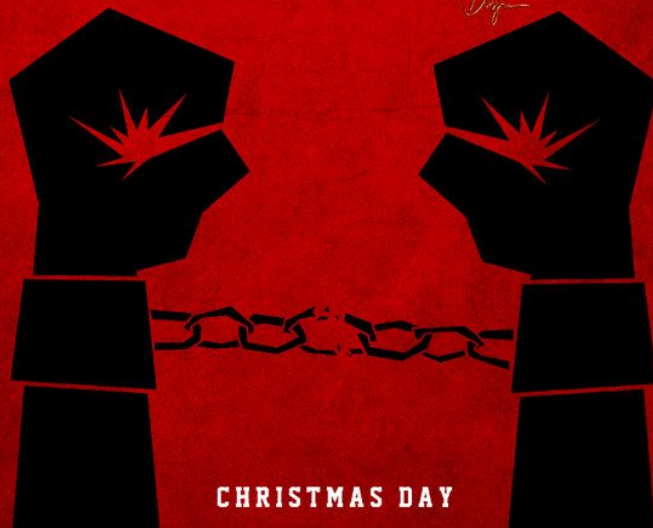
LIFE, LIBERTY AND THE PURSUIT OF VENGEANCE.

THE NEW FILM BY  
QUENTIN TARANTINO

# DJANGO

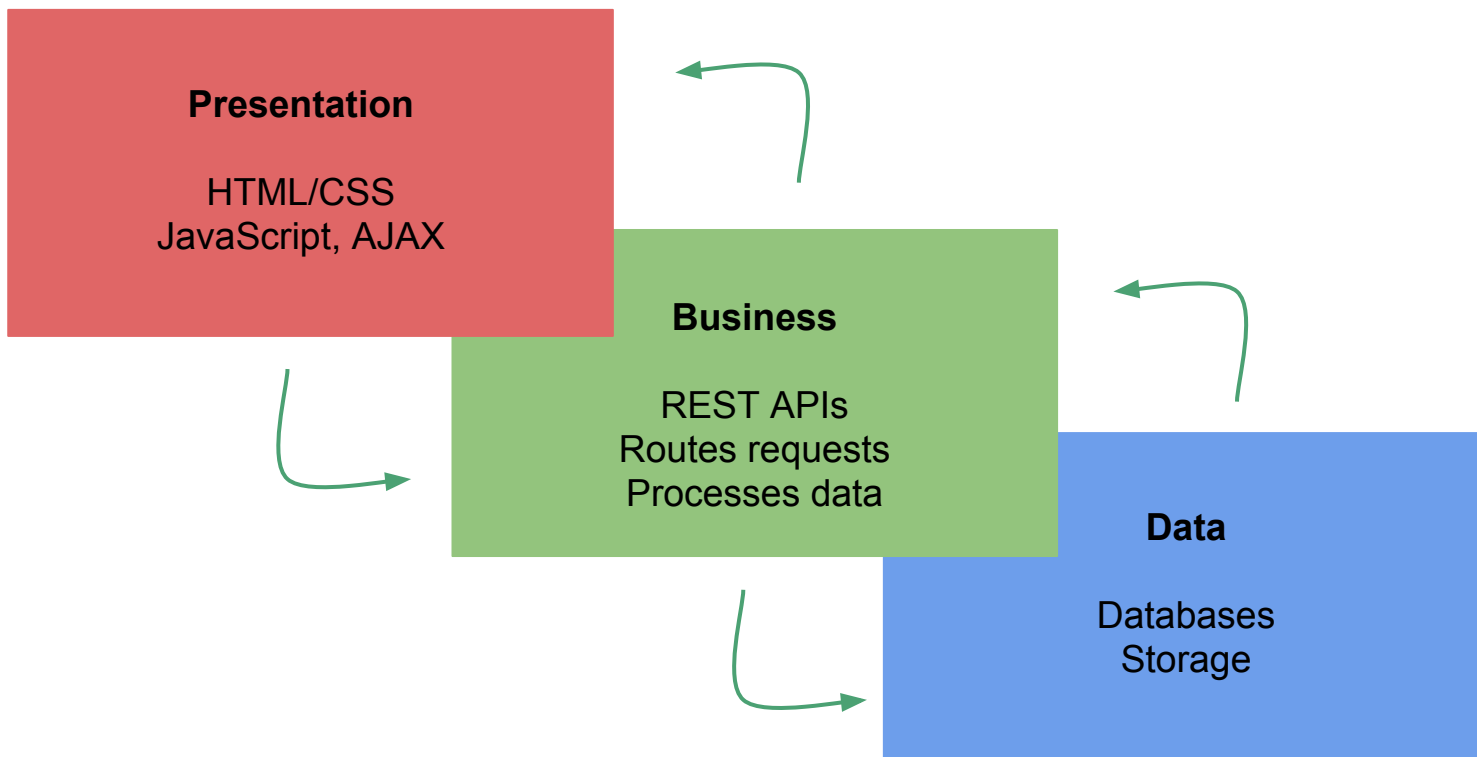
U N C H A I N E D

*Django*



CHRISTMAS DAY

- + Who? What? When? Why? How?
- + Where does Django fit into the world of web dev?
- + MVC vs. Django's MTV
- + Live coding a short-URL service!
  - + Create models
  - + Create routes/"views"
  - + Create templates
  - + Deploy!



**Who** Web developers for online newspaper company

**What** Created Python-based web app framework

**When** Initial release in 2005, last stable version three days ago!

**Why** Ease creation of complex, (relational) database-driven apps

**How** Python modules *for the win!*

# Full stack web app frameworks...

DJANGO



(and so many more!)

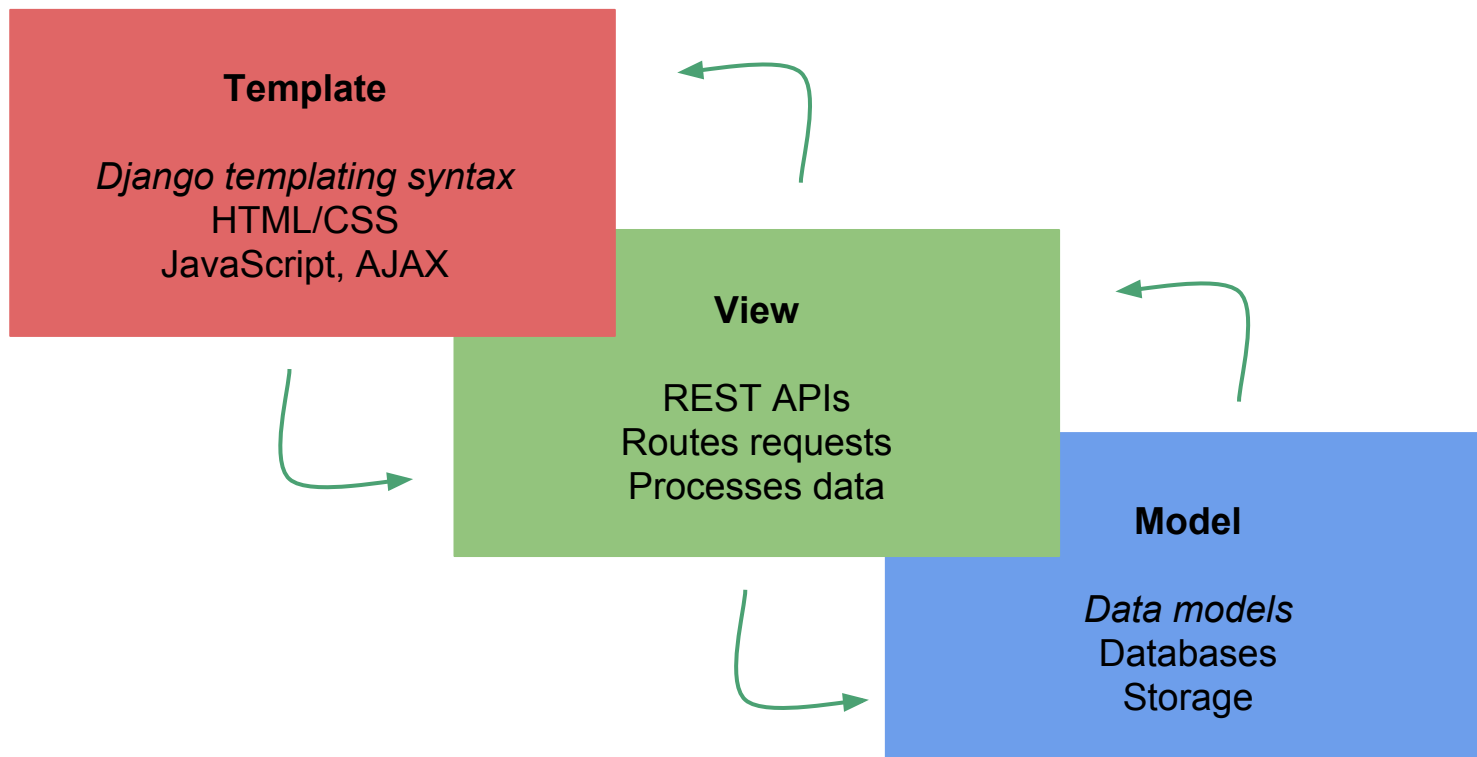
# But why Django?

**DJANGO =**  
**BEAUTIFUL**  
**ABSTRACTION.**



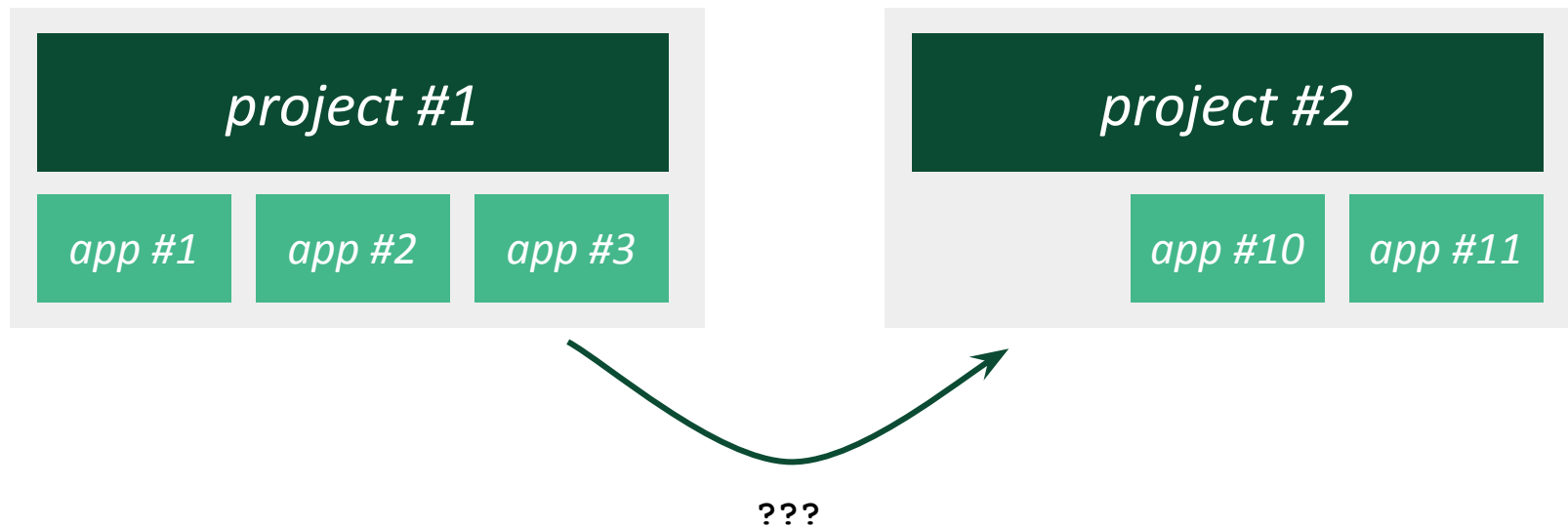
# Model-View-Template architecture

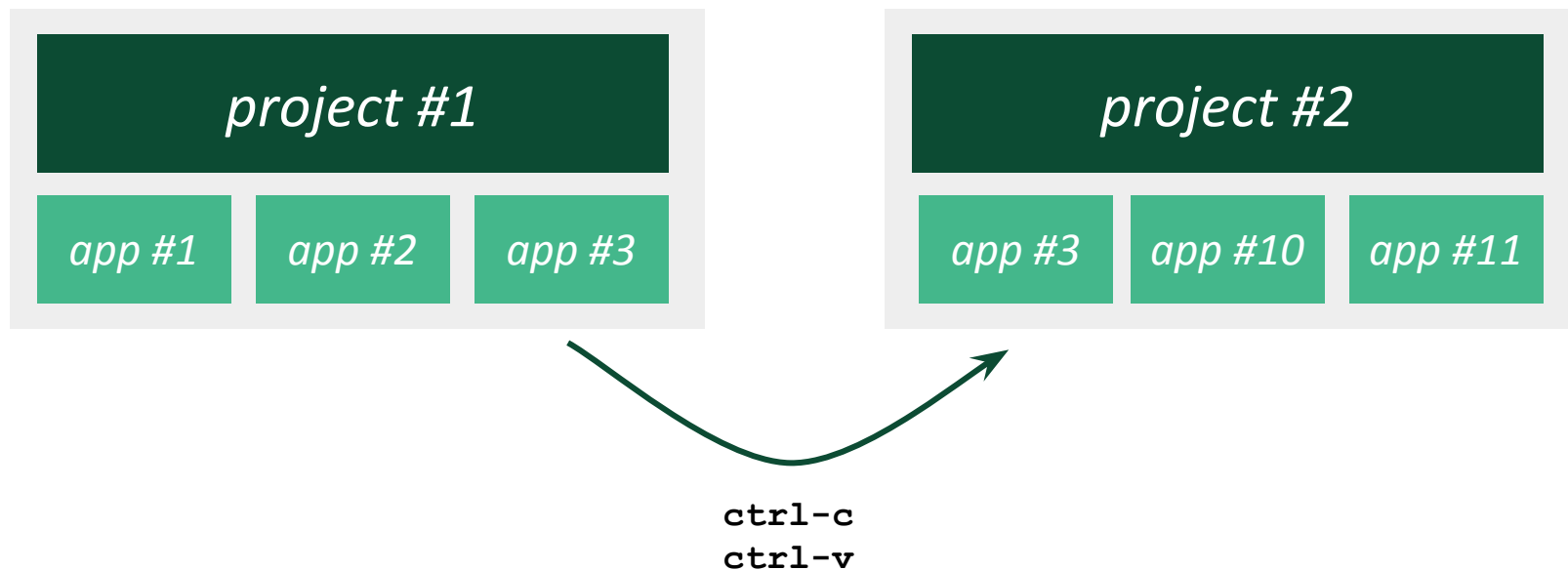
DJANGO





```
app
+ __init__.py
+ models.py
+ tests.py
+ urls.py
+ views.py
+ templates/
  + index.html
  + login.html
+ migrations/
  + 0001_initial.py
  + ...
```





# What do you need to know to create great apps?

DJANGO

- + Regular Expressions!
- + Python!
- + Object-oriented programming!
  - + Abstraction
  - + Inheritance
  - + Encapsulation
  - + Polymorphism
- + Deployment info!

1. Let's **define** an API and URLs!
2. Let's **translate** our API into code in Django!
3. Let's **test**!
4. Let's **deploy**!
5. Let's **enjoy** and **administrate**!