

# django

yes, the movie

jk ur a fool

# last week

- regexes!
- urls!
- models!
- views!
- templates!
- exclamation points!!!!!!!!!!!!!!!!!!!!!!

# this week

- admin!
- moar templates!
- migrations!
- gifs!
- fewer exclamation points.
- jk!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!

# non-technical users



# non-technical users

- need to upload content
- don't know shit about computers
- how do they do it?

# admin interface!

- automagically generates CRUD interface
- also pretty customizable

# but how to?

1. create file `<app_name>/admin.py`
2. import admin
3. register your model with admin

# admin.py

```
from django.contrib import admin
from blogger.models import BlogPost, Author

admin.site.register(BlogPost)
admin.site.register(Author)
```



# is it really that easy?

- yes.
- yes it is.

# some customization

- ModelAdmin - class that contains settings

# some customization

```
from django.contrib import admin
from blogger.models import BlogPost, Author

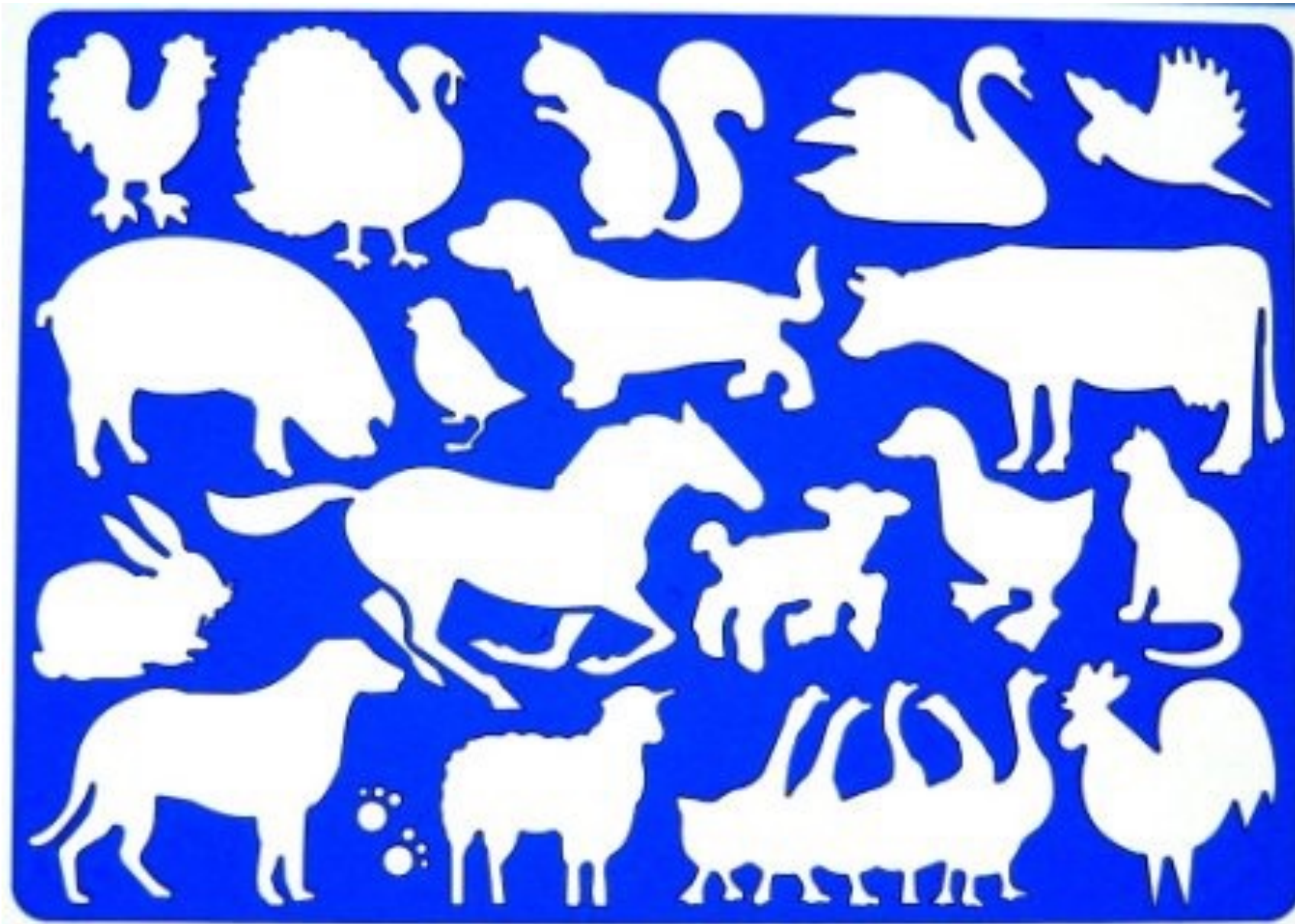
class BlogPostAdmin(admin.ModelAdmin):
    fields = ['title', 'post', 'time', 'author']

admin.site.register(BlogPost, BlogPostAdmin)
```

# moar customization

- widgets
- forms
- css i guess if that's what you're into

# templates



# going back to our blog site...

- jk
- that shit was boring
- let's talk kanye

going back to our blog site...





going back to our blog site...





going back to our blog site...



# #1 kanye fan site

- **^\$:** homepage
- **^/quote/\d+\$:** quote page
- **^/fan/rank\_\d+\$:** ye's number *n* fan

# index.html

```
<html>
  <head>
    <title>kanye's biggest baddest fansite</title>
  </head>
  <body>
    <ul id="best quotes">
      {% for q in quotes %}
        <li><a href="{{ q.url }}">{{ q }}</a></li>
      {% endfor %}
    </ul>
  </body>
</html>
```

# quotes.html

```
<html>
  <head>
    <title>kanye's biggest baddest fansite</title>
  </head>
  <body>
    <h1>quote</h1>
    <p id="quote">{{ quote }}</p>
    <div id="comments">
      ...
    </div>
  </body>
</html>
```

# fan.html

```
<html>
  <head>
    <title>kanye's biggest baddest fansite</title>
  </head>
  <body>
    <h1>kanye's #{{ fan.rank }} fan</h1>
    <span id="name">{{ fan.name }}</span>
    <div id="stats">
      {{ fan.stats }}
    </div>
  </body>
</html>
```

what's wrong with this  
picture?

# template inheritance

- define "base" template
- define "blocks"
- child templates fill in blocks

# \_base.html

```
<html>
  <head>
    <title>kanye's biggest baddest fansite</title>
  </head>
  <body>
    {% block content %} {% endblock content %}
  </body>
</html>
```



# index.html (w/ facelift)

```
{% extends "_base.html" %}

{% block content %}
    <ul id="best quotes">
        {% for q in quotes %}
            <li><a href="{{ q.url }}">{{ q }}</a></li>
        {% endfor %}
    </ul>
{% endblock content %}
```

# logic in templates (yay!)

- template filters!
- define functions!
- transform your inputs!
- [moar info!](#)

# how to make

- create directory `<your_app>/templatetags`
- create files
  - `templatetags/__init__.py`
  - `templatetags/my_templatetags.py`

# my\_templatetags.py

```
from django import template  
register = template.Library()
```

```
@register.filter()  
def excite(val):  
    return val.upper()
```

# usage (blog\_post.html)

```
{% extends "base.html" %}
{% load blogger_extras %}

{% block content %}
    <h1>{{ post.title|excite }}</h1>
    ... more stuff here too probably
{% endblock %}
```

# migrations :o

- guys guys guys
- huge development guys
- i added a field to the model :o
- wat do

# migrations

1. you add a field to your models
2. you run `python manage.py makemigrations`
  1. `python manage.py makemigrations -name changed_my_model your_app_label`
3. creates migration file

# but what is migration file

- numbered
- code automatically updates db
- run them with `python manage.py migrate`