

Welcome,
PyLadiesSF!

Goals:

>>> have fun!

>>> learn about web
development

>>> create something!



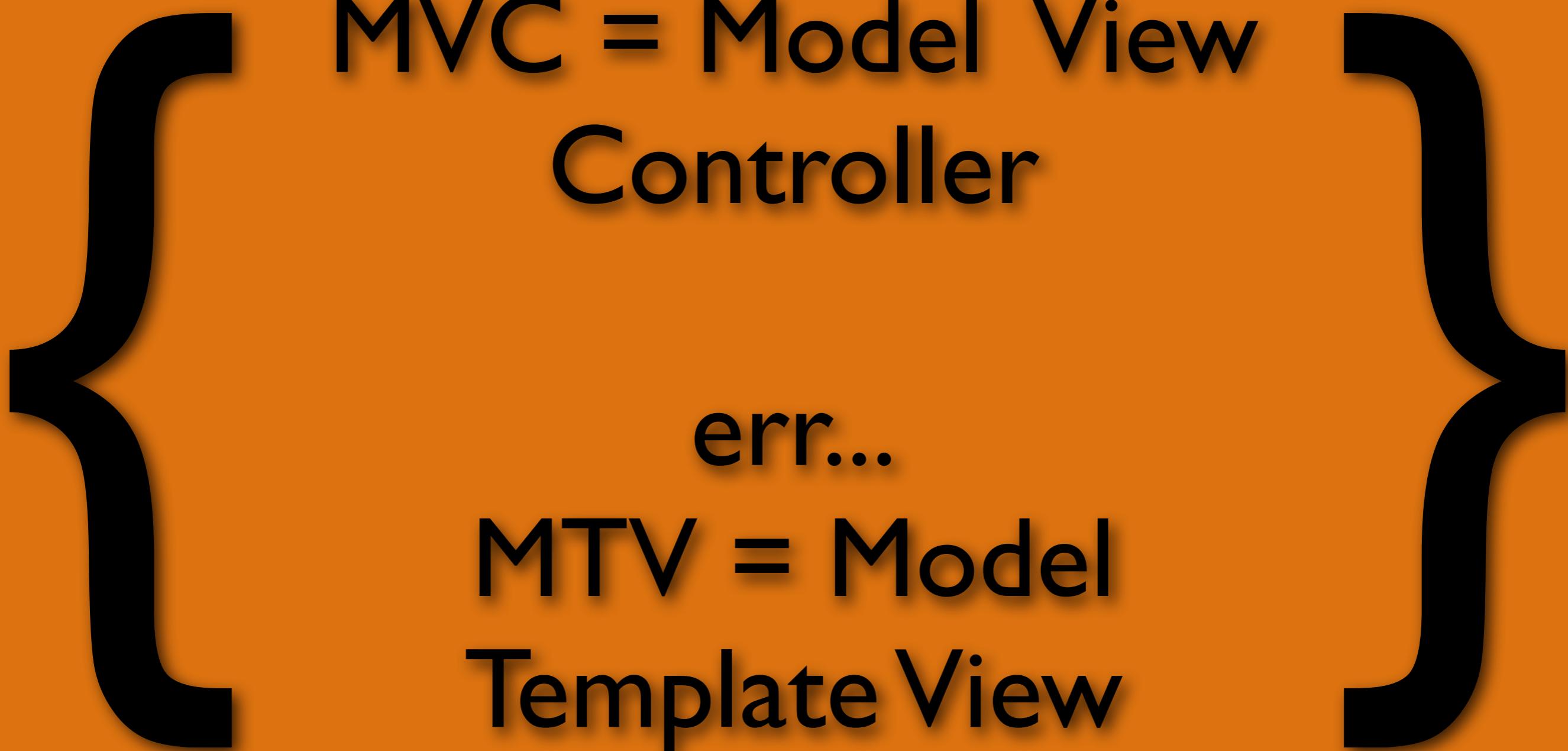
layout-ish:

1. walk through
concepts & code
2. you try it out
3. repeat

Ruby on Rails vs Python and Django

:

Ruby vs Python



**MVC = Model View
Controller**

err...

**MTV = Model
Template View**

First: Installation packages

1. Open a Terminal/Command Line

2. `sudo easy_install pip`

3. `pip install virtualenv`

4. `pip install virtualenvwrapper`

5. `pip install django`

6: download git

Optional**: setup a GitHub account

Next: Setup Django Blog environment

In your command line/terminal, type:

```
django-admin.py startproject myblog
```

In your command line/terminal, type:

```
mkvirtualenv myblog
```

Con't: Setup Django Blog environment

In your command line/terminal, type:

```
$ mkvirtualenv myblog
```

In your command line/terminal, type:

```
$ cd myblog
```

```
C:\> dir myblog
```

Next: Setup Django Blog environment

In your command line/terminal, type:

```
$ python manage.py runserver
```

Navigate in your browser to:

<http://localhost:8000>

Configuration of our App

In the Text Editor of
your choice, open up
`settings.py`

Configure the database to
`sqlite3`

Prepare the App

In your command line/terminal, type:

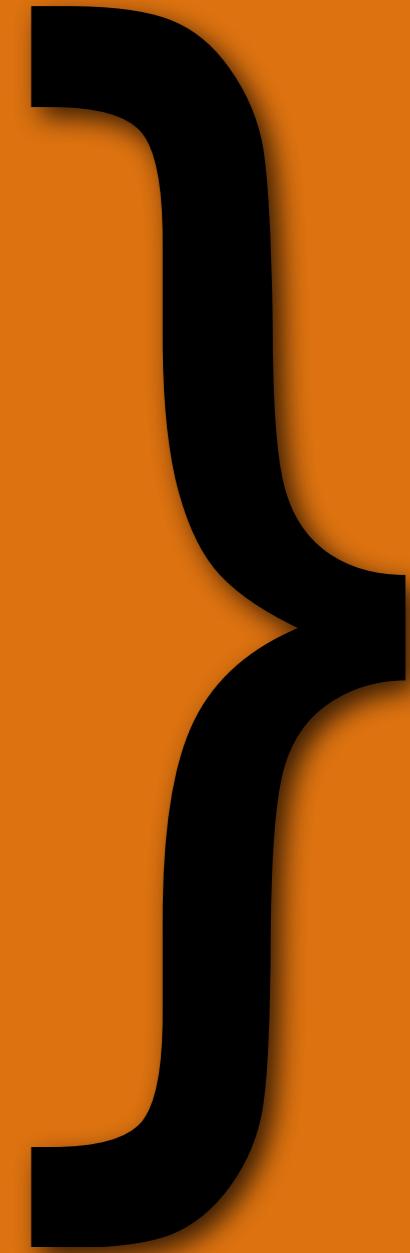
```
$ python manage.py syncdb
```

Again in your terminal:

```
$ python manage.py startapp blog
```

WHOA Hold up.

Indentation is UBER important.



```
if tab is not tab:  
    return 4 spaces  
else:  
    return IndentationError
```

Once more:

Indentation is UBER
important.

Define your models

Open up `models.py` in
your text editor.

Define your models

```
from django.db import models

class BlogPost(models.Model):
    # how do we want to define a blog post?

class Comment(models.Model):
    # how do we want to define a comment?
```

Activate Admin site

open up `settings.py` and
uncomment three lines:

```
from django.contrib import admin
admin.autodiscover()
url(r'^admin/', include(admin.site.urls)),
```

add ‘blog’, to `INSTALLED_APPS`

Prepare the App

In your command line/terminal, type:

```
$ python manage.py sql blog
```

Again in your terminal:

```
$ python manage.py syncdb
```

Activate Admin site

open up `settings.py` and
uncomment one line under
INSTALLED_APPS:
`django.contrib.admin`

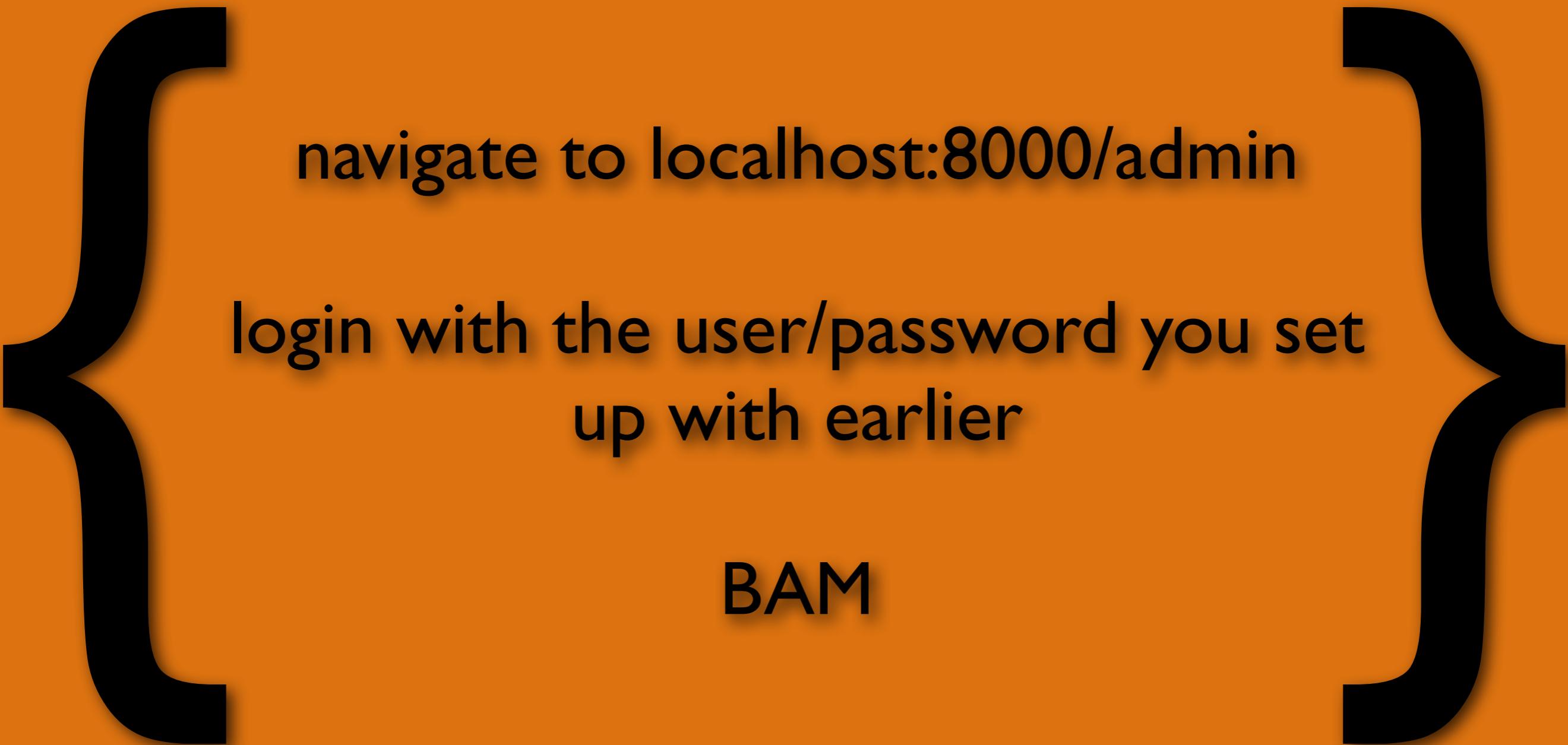
Pro-tip: a commented line
starts with a hashtag: #

Activate Admin site

open up `blog/urls.py` and
uncomment two lines:

```
from django.contrib import admin  
admin.autodiscover()
```

Activate Admin site



navigate to `localhost:8000/admin`

login with the user/password you set
up with earlier

BAM

Activate Admin site

create a file called `admin.py` and write the following:

```
from blog.models import BlogPost, Comment  
from django.contrib import admin
```

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

Explore Admin site

Navigate to the Admin site and notice
the changes.

It will be changing again :-D

Customize Admin site

```
class CommentAdmin(admin.ModelAdmin):  
    list_display = ["post", "author", "created"]
```

```
class BlogPostAdmin(admin.ModelAdmin):  
    def preview(self, obj):  
        return obj.body[0:100]  
    list_display = ["title", "author", "preview"]  
    search_fields = ["title"]
```

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

Customize Admin site

Revisit the Admin site.

Write a blog post x3.

Don't forget to pimp us

out: @PyLadiesSF

#hackingPyLadiesSF

Customizing URLs

URLs allow the front-end to talk to the back-end. If you want to see a detailed post, clicking on it will send info to the SinglePost view.

Customizing Views

We've outlined two views so far:

BlogView for a list of posts
&

SinglePost for viewing a single post with comments

Customizing Views

In my code, I also have a few other experimental things like AddComment. This is so I can make a form for commenting on posts.

Unfortunately I could not fight the sand man any longer and had to go to bed before I could get it to work.

Comment Form

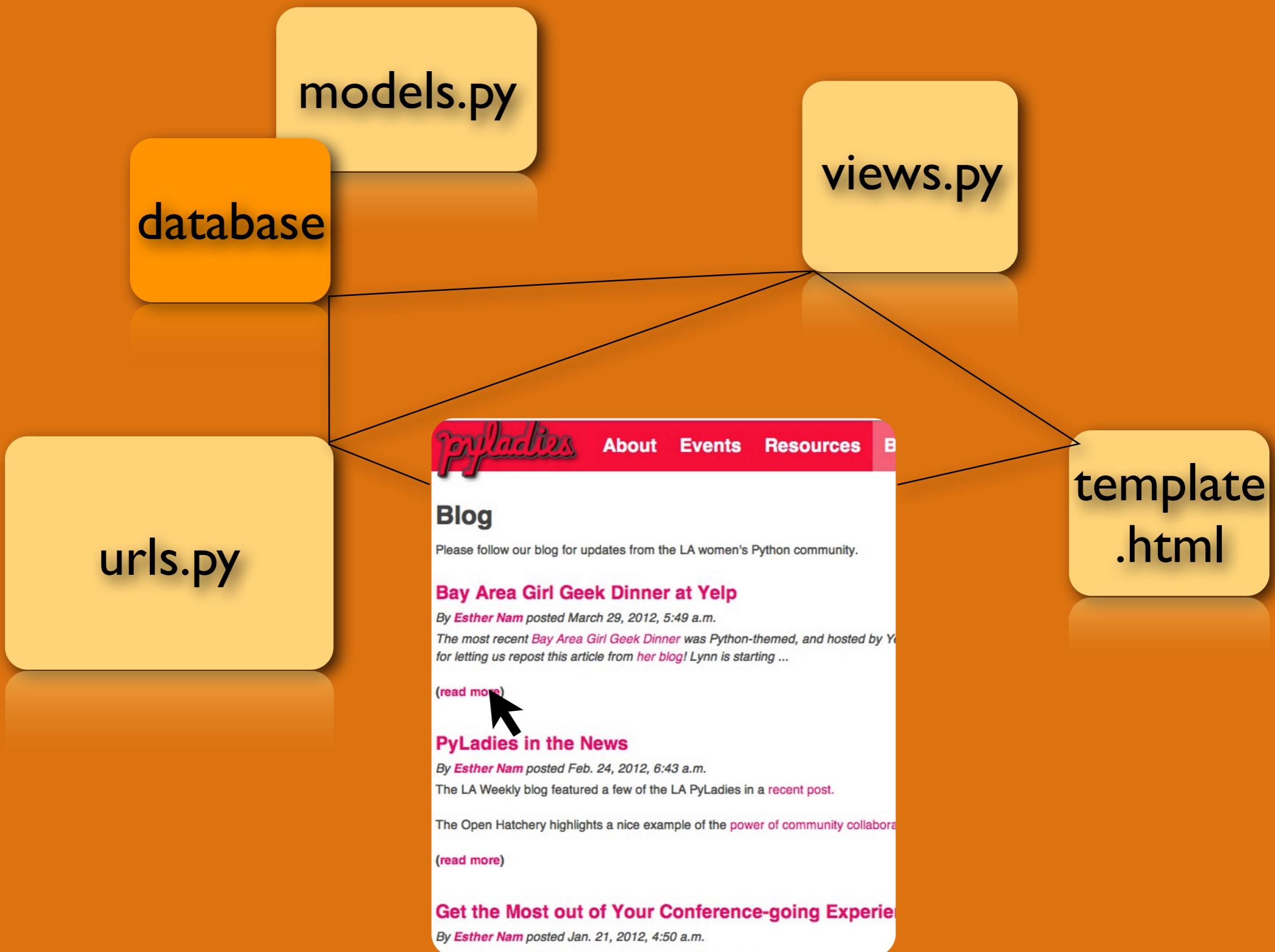
Comment form is just based off our model, nearly verbatim.

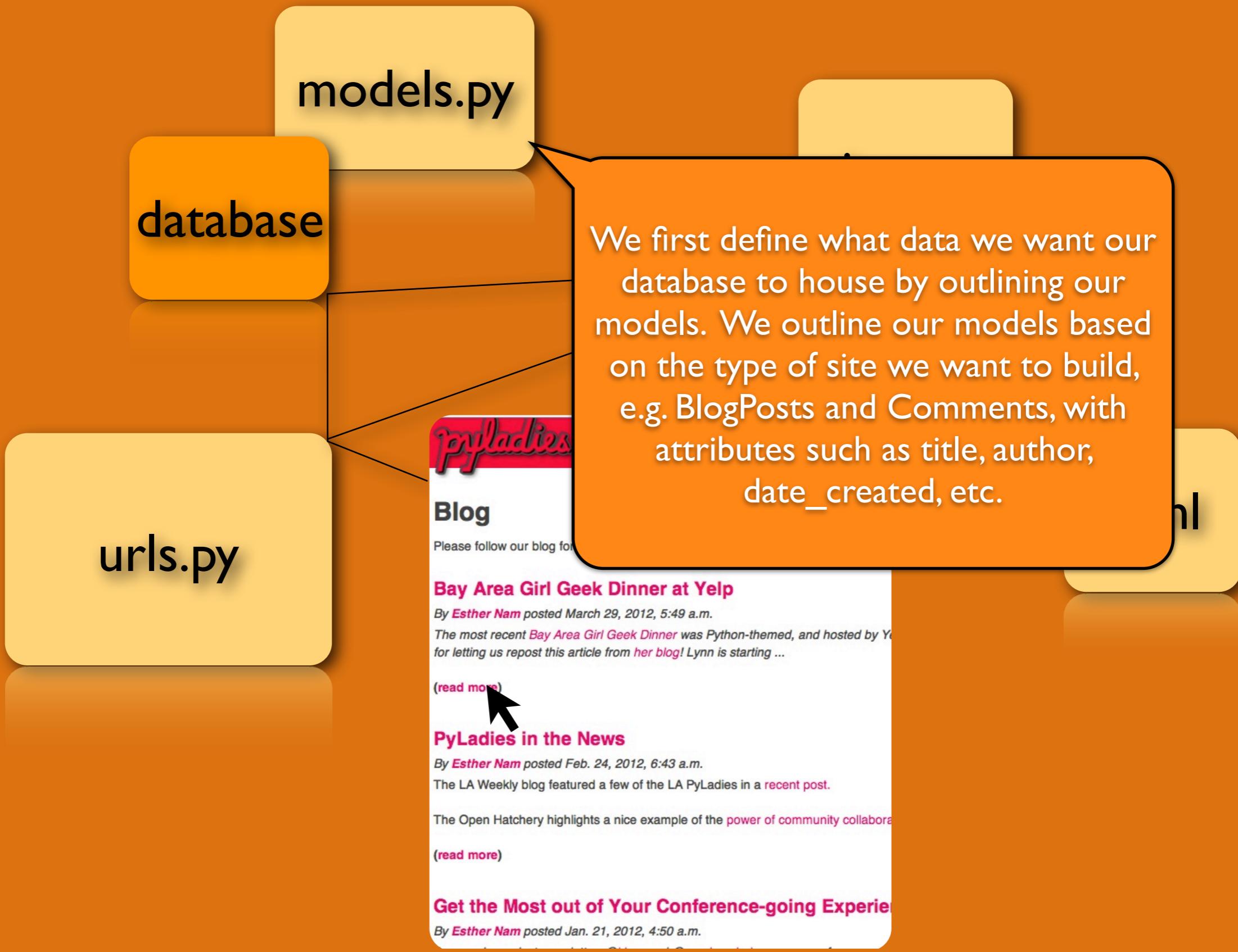
Again, it isn't rendered anywhere [yet].

Templates

Templates need to be in their own folder under /blog/.

Templates connects the data with the user, populating blog post info with the view they requested via the URL. Here you also incorporate design with HTML & CSS.





Django administration

Site administration

Auth

Groups

Users

Blog

Blog posts

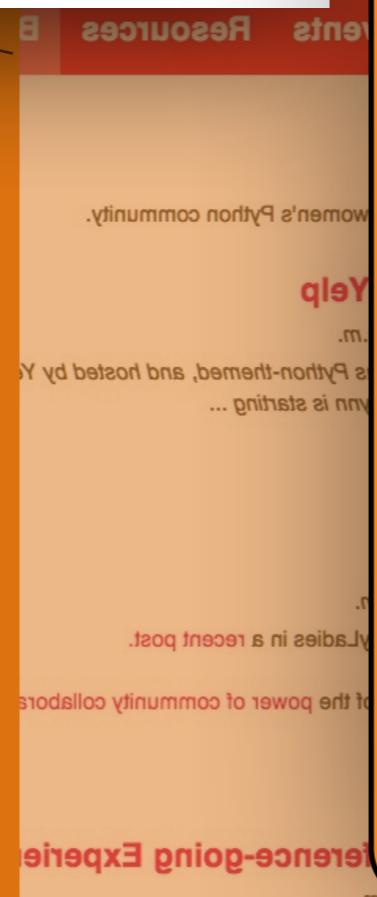
Comments

Sites

Sites

+ Add Change

template.html.



wq.s.b

database

“Behind the scenes” you have your admin page, where you can populate your database with data, aka write your blog posts.

You can also make yourself seem awesome by writing favorable comments :)

