

Django X Heroku 장고로 블로그 순식간에 만들기

이상한모임 @chiyodad

토마토를
먹어야 한다.



@chiyodad

개발자

**모든 내용은
macOS 기준입니다.**



Django Reinhardt
<http://djangoproject.com>

jacobian.org



THE



D IS SILENT

django

The web framework for
perfectionists with deadlines.

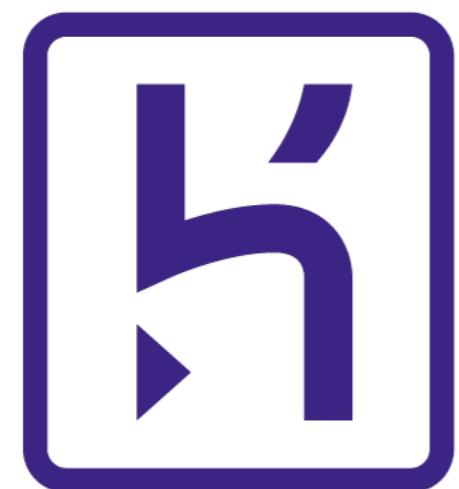
The web framework
for perfectionists
with deadlines.

Open Source Full stack Web Framework

<https://djangobirthday.com/>

Discus
Instagram
Mozilla
OpenStack
Pinterest
PolitiFact.com
Rdio
The New York Times
The Washington Post
NASA
Lanyrd

hero
hiku



HEROKU

<http://heroku.com>



AWS 위에서 돌아가는 PaSS

그냥 온라인 컴퓨터에요.

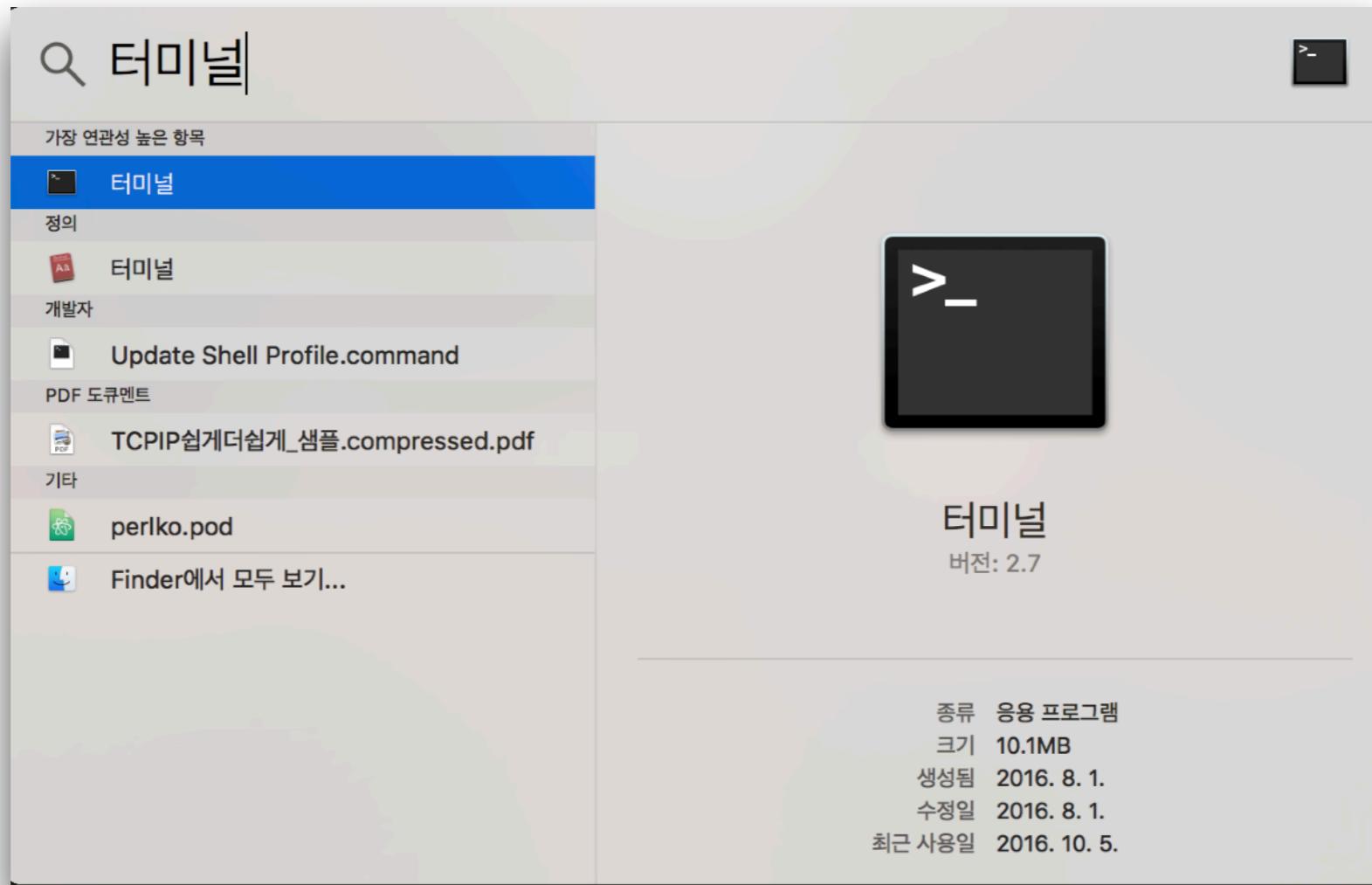
오늘 할 일

Django 로
간단한 **블로그** 만들어서
Heroku 에서 서비스하기

<http://emocon.herokuapp.com>

기본 작업

terminal 열기 spotlight 를 이용하세요



Git 버전 확인

\$ git --version

```
David-MacBook-Pro:~ show$ git --version  
git version 2.10.0  
David-MacBook-Pro:~ show$
```

Git ?

Version Control System(VCS)

자세한 내용은 아래 사이트 참고
<https://backlogtool.com/git-guide/kr/>

homebrew 설치

macOS 용 프로그램 설치를 도와주는 프로그램

homebrew 공식사이트

http://brew.sh/index_ko.html 확인

```
/usr/bin/ruby -e "$(curl -fsSL https://raw.githubusercontent.com/Homebrew/install/master/install)"
```

```
David-MacBook-Pro:~ show$ /usr/bin/ruby -e "$(curl -fsSL https://raw.githubusercontent.com/Homebrew/install/master/install)"
```

```
David-MacBook-Pro:~ show$ brew -v
Homebrew 1.0.6
Homebrew/homebrew-core (git revision 8cff; last commit 2016-10-06)
```

python3 설치

```
$ brew install python3
```

pip설치

```
$ sudo easy_install pip
```

atom.io

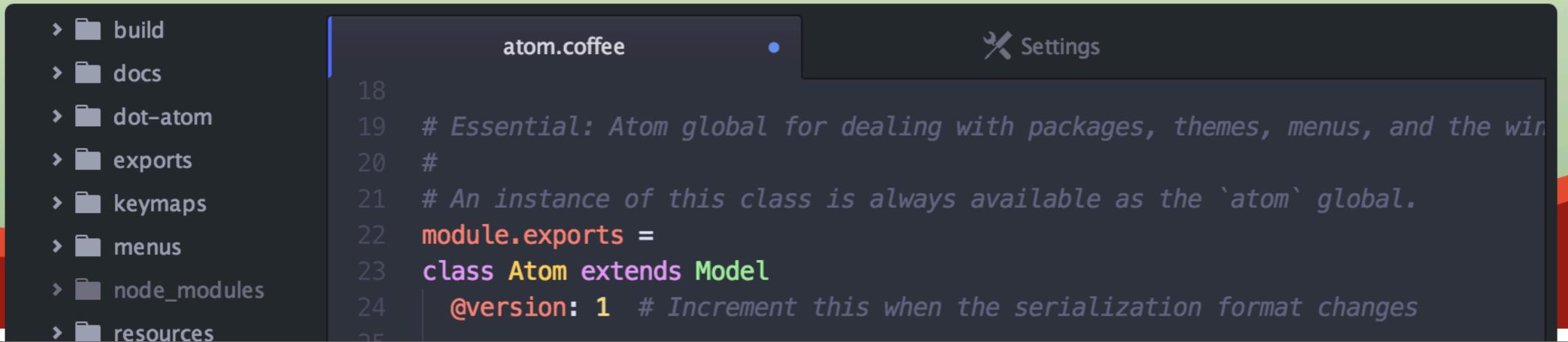


ATOM

A hackable text editor
for the 21st Century

[Download For Mac](#)

For macOS 10.8 or later. Other platforms - Beta releases



heroku

heroku 가입

heroku toolbelt 설치

[https://devcenter.heroku.com/articles/
heroku-command-line](https://devcenter.heroku.com/articles/heroku-command-line)

heroku 설치 확인

\$ heroku --version

```
David-MacBook-Pro:~ show$ heroku --version
heroku-toolbelt/3.43.12 (x86_64-darwin10.8.0) ruby/1.9.3
heroku-cli/5.4.2-a9a5017 (darwin-amd64) go1.7.1
You have no installed plugins.
David-MacBook-Pro:~ show$ █
```

프로젝트 폴더 만들기

```
$ mkdir emocon
```

```
$ cd emocon
```

```
David-MacBook-Pro:~ show$ mkdir emocon  
David-MacBook-Pro:~ show$ cd emocon  
David-MacBook-Pro:emocon show$ █
```

Git 초기화

\$ git init

```
David-MacBook-Pro:emocon show$ git init
Initialized empty Git repository in /Users/show/emocon/.git/
```

heroku 로그인

\$ heroku login

```
David-MacBook-Pro:emocon show$ heroku login
Enter your Heroku credentials.
Email: chiyodadwm@gmail.com
Password (typing will be hidden):
Logged in as chiyodadwm@gmail.com
David-MacBook-Pro:emocon show$ █
```

heroku 앱 만들기

\$ heroku create [app]

```
David-MacBook-Pro:emocon show$ heroku create emocon1208
Creating ⚡️ emocon1208... done
https://emocon1208.herokuapp.com/ | https://git.heroku.com/emocon1208.git
```

heroku 앱 정보확인

\$ heroku info [app]

```
David-MacBook-Pro:emocon2016-django show$ heroku info emocon1208  
==== emocon1208  
Dynos:  
Git URL:      https://git.heroku.com/emocon1208.git  
Owner:        chiyodadwm@gmail.com  
Region:       us  
Repo Size:    0 B  
Slug Size:   0 B  
Stack:        cedar-14  
Web URL:     https://emocon1208.herokuapp.com/  
David-MacBook-Pro:emocon2016-django show$
```

heroku - Git 연동 확인

\$ git remote

```
David-MacBook-Pro:emocon show$ git remote  
heroku  
David-MacBook-Pro:emocon show$
```

heroku 앱 확인
\$ heroku open

Heroku | Welcome to your new app!

Refer to the [documentation](#) if you need help deploying.

django

Virtualenv

가상 환경 만들기

virtualenv 설치

```
$ pip3 install virtualenv
```

virtualenv 설정

```
$ python3 -m venv emv
```

* 한글을 자유롭게 쓰기위해 python3 를 씁니다.

virtualenv 활성화

\$. env/bin/activate

```
David-MacBook-Pro:emocon show$ . env/bin/activate  
(env) David-MacBook-Pro:emocon show$ █
```

비활성화

\$. env/bin/deactivate

django 설치하기

(env)\$ pip install django

```
(env) David-MacBook-Pro:emocon show$ pip install django
Collecting django
  Using cached Django-1.10.2-py2.py3-none-any.whl
Installing collected packages: django
Successfully installed django-1.10.2
```

프로젝트 시작하기

```
$ django-admin  
startproject [프로젝트명]
```

django heroku project template 설치

```
(env)$ django-admin.py startproject --  
template=https://github.com/heroku/  
heroku-django-template/archive/  
master.zip --name=Procfile emocon .
```

PostgreSQL 설치

```
$ brew update  
$ brew install postgres
```

Local 은 DB를 sqlite3 를 사용하고
heroku는 PostgreSQL 를 사용합니다

의존성 패키지 설치

\$ pip install -r requirements.txt

```
(env) David-MacBook-Pro:emocon show$ pip install -r requirements.txt
Collecting dj-database-url==0.4.1 (from -r requirements.txt (line 1))
Collecting Django==1.9.8 (from -r requirements.txt (line 2))
    Downloading Django-1.9.8-py2.py3-none-any.whl (6.6MB)
      100% |██████████| 6.6MB 180kB/s
Collecting gunicorn==19.6.0 (from -r requirements.txt (line 3))
    Using cached gunicorn-19.6.0-py2.py3-none-any.whl
Collecting psycopg2==2.6.2 (from -r requirements.txt (line 4))
    Using cached psycopg2-2.6.2.tar.gz
Collecting whitenoise==3.2 (from -r requirements.txt (line 5))
    Using cached whitenoise-3.2-py2.py3-none-any.whl
Installing collected packages: dj-database-url, Django, gunicorn, psycopg2, whitenoise
    Found existing installation: Django 1.10.2
    Uninstalling Django-1.10.2:
        Successfully uninstalled Django-1.10.2
    Running setup.py install for psycopg2 ... done
Successfully installed Django-1.9.8 dj-database-url-0.4.1 gunicorn-19.6.0 psycopg2-2.6.2 whitenoise-3.2
```

error 발생시

xcode cli 설치

```
$ xcode-install --select
```

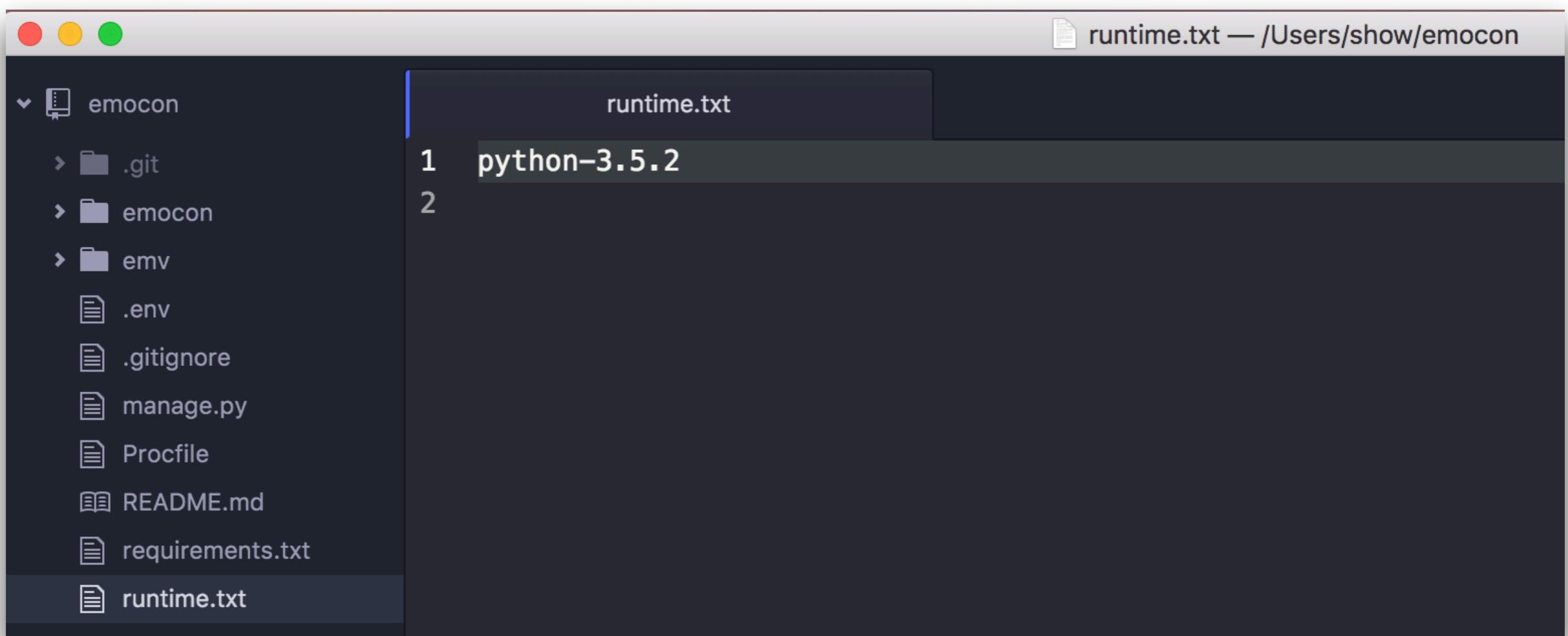
설치 파일 확인

\$ ls

```
(env) David-MacBook-Pro:emocon show$ django-admin.py startproject --template=https://github.com/heroku/heroku-django-template/archive/master.zip --name=Procfile  
emocon .  
(env) David-MacBook-Pro:emocon show$ ls  
Procfile                           env                         runtime.txt  
README.md                            manage.py  
emocon                                requirements.txt  
(env) David-MacBook-Pro:emocon show$ █
```

atom 으로 폴더열기

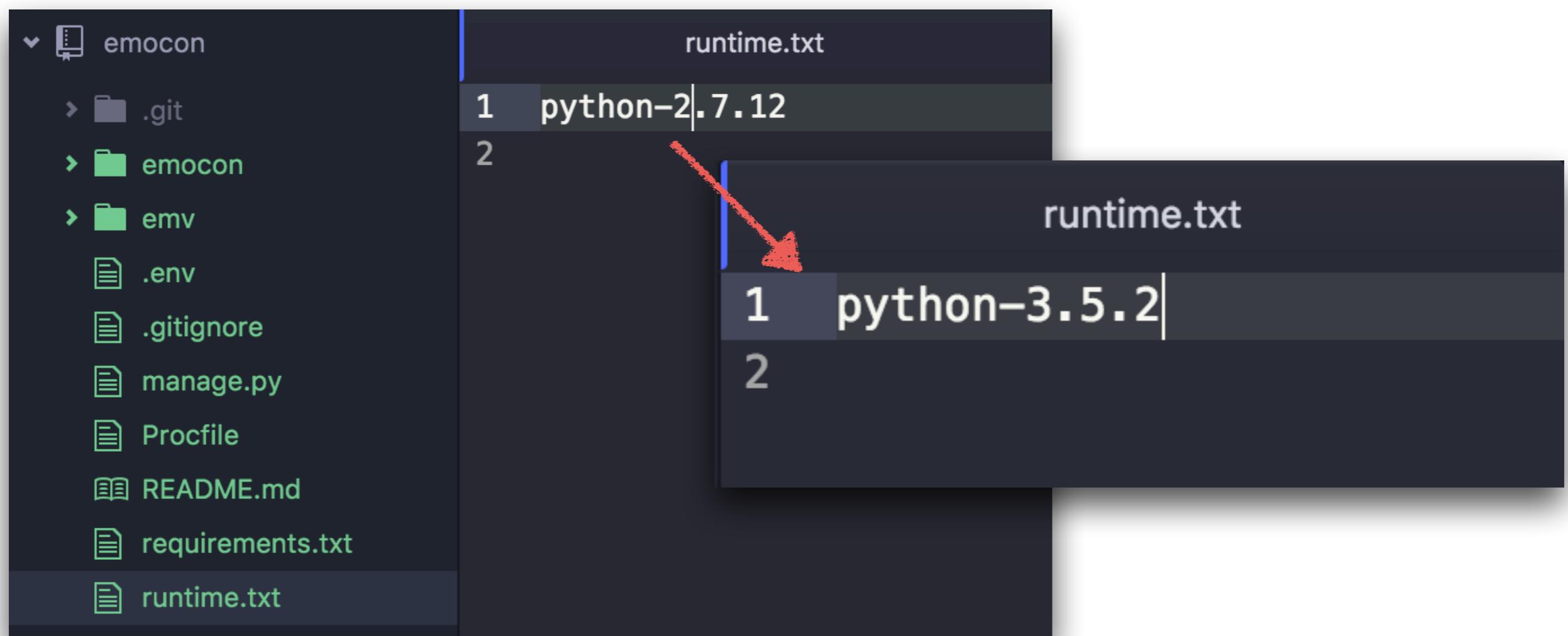
\$ atom .



runtime.txt 수정

python-2.7.12 => python-3.5.2

heroku에서 사용할 python 버전



Git 에 추가하기

\$ git add .

\$ git commit -m 'initial django'

```
(env) David-MacBook-Pro:emocon show$ git add .
```

```
(env) David-MacBook-Pro:emocon show$ git commit -m 'initial django project'
```

heroku 에 올리기

\$ git push heroku master

```
(env) David-MacBook-Pro:emocon show$ git add .
(env) David-MacBook-Pro:emocon show$ git commit -m 'initial django project'
```

Django 배포 확인

\$ heroku open

It worked!

Congratulations on your first Django-powered page.

Of course, you haven't actually done any work yet. Next, start your first app by running `python manage.py startapp [app_label]`.

You're seeing this message because you have `DEBUG = True` in your Django settings file and you haven't configured any URLs. Get to work!

Local DB 초기화

\$ python manage.py migrate

Heroku DB 초기화

\$ heroku run

python manage.py migrate

Local

```
(env) David-MacBook-Pro:emocon show$ python manage.py migrate
```

Operations to perform:

Apply all migrations: sessions, auth, contenttypes, admin

Running migrations:

 Rendering model states... **DONE**

 Applying contenttypes.0001_initial... **OK**

 Applying auth.0001_initial... **OK**

 Applying admin.0001_initial... **OK**

 Applying admin.0002_logentry... **(env) David-MacBook-Pro:emocon show\$ heroku run python manage.py migrate**

 Applying contenttypes.0002_remove_content_type_name... **Running python manage.py migrate on ⚙️ emocon1208... up, run.4032 (Free)**

 Applying auth.0002.Alter_p... **Operations to perform:**

Apply all migrations: contenttypes, admin, sessions, auth

Running migrations:

 Rendering model states... **DONE**

 Applying contenttypes.0001_initial... **OK**

 Applying auth.0001_initial... **OK**

 Applying admin.0001_initial... **OK**

 Applying admin.0002_logentry_remove_auto_add... **OK**

 Applying contenttypes.0002_remove_content_type_name... **OK**

 Applying auth.0002.Alter_permission_name_max_length... **OK**

 Applying auth.0003.Alter_user_email_max_length... **OK**

 Applying auth.0004.Alter_user_username_opts... **OK**

 Applying auth.0005.Alter_user_last_login_null... **OK**

 Applying auth.0006.Require_contenttypes_0002... **OK**

 Applying auth.0007.Alter_validators_add_error_messages... **OK**

 Applying sessions.0001_initial... **OK**

Heroku

```
(env) David-MacBook-Pro:emocon show$ heroku run python manage.py migrate
```

Operations to perform:

Apply all migrations: contenttypes, admin, sessions, auth

Running migrations:

 Rendering model states... **DONE**

 Applying contenttypes.0001_initial... **OK**

 Applying auth.0001_initial... **OK**

 Applying admin.0001_initial... **OK**

 Applying admin.0002_logentry_remove_auto_add... **OK**

 Applying contenttypes.0002_remove_content_type_name... **OK**

 Applying auth.0002.Alter_permission_name_max_length... **OK**

 Applying auth.0003.Alter_user_email_max_length... **OK**

 Applying auth.0004.Alter_user_username_opts... **OK**

 Applying auth.0005.Alter_user_last_login_null... **OK**

 Applying auth.0006.Require_contenttypes_0002... **OK**

 Applying auth.0007.Alter_validators_add_error_messages... **OK**

 Applying sessions.0001_initial... **OK**

superuser 만들기

```
$ python manage.py  
createsuperuser
```

```
$ heroku run  
python manage.py  
createsuperuser
```

```
(env) David-MacBook-Pro:emocon show$ python manage.py createsuperuser
Username (leave blank to use 'show'): chiyodad
Email address:
Password:
Password (again):
Superuser created successfully.
```

Local Server 실행

\$ python manage.py runserver

```
(env) David-MacBook-Pro:emocon show$ python manage.py runserver
Performing system checks...

System check identified no issues (0 silenced).
October 07, 2016 - 12:05:14
Django version 1.9.8, using settings 'emocon.settings'
Starting development server at http://127.0.0.1:8000/
Quit the server with CONTROL-C.
```

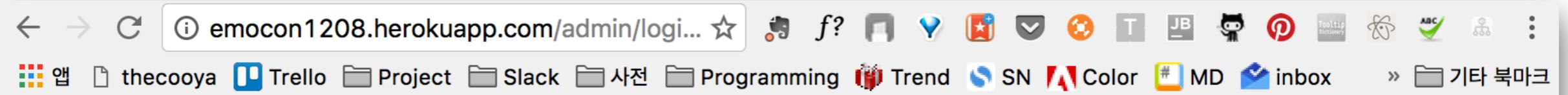
Django admin 확인

Local

<http://127.0.0.1:8000/admin/>

heroku

[https://emocon1208.herokuapp.com/
admin/login/?next=/admin/](https://emocon1208.herokuapp.com/admin/login/?next=/admin/)



Django administration

Username:

Password:

Log in

Django administration

WELCOME, **CHIYODAD**. [VIEW SITE](#) / [CHANGE PASSWORD](#) / [LOG OUT](#)

Site administration

AUTHENTICATION AND AUTHORIZATION

Groups

 Add  Change

Users

 Add  Change

Recent Actions

My Actions

None available

블로그 만들기

Blog App 만들기

\$ django-admin startapp blog

```
(env) David-MacBook-Pro:emocon show$ django-admin startapp blog
(env) David-MacBook-Pro:emocon show$ ls
Procfile                               db.sqlite3           manage.py
README.md                                emocon             requirements.txt
blog                                     env                runtime.txt
(env) David-MacBook-Pro:emocon show$ █
```

Django Project 구조

emocon

.git

blog

migrations

init.py

admin.py

apps.py

models.py

tests.py

views.py

emocon

__pycache__

static

init.py

settings.py

urls.py

wsgi.py

env

.env

.gitignore

db.sqlite3

manage.py

app 관련 파일

project 관련 파일

MTV 구조

Model - Data

View - Control

Template - Presentation

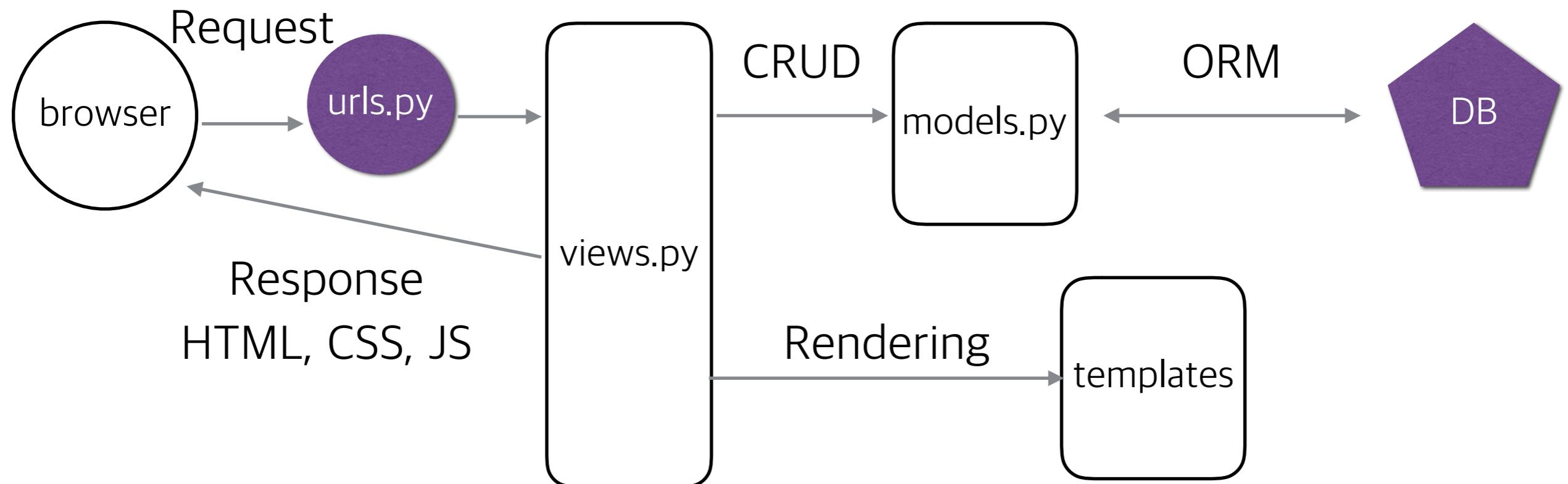
M M models.py

C V views.py

urls.py

V T templates

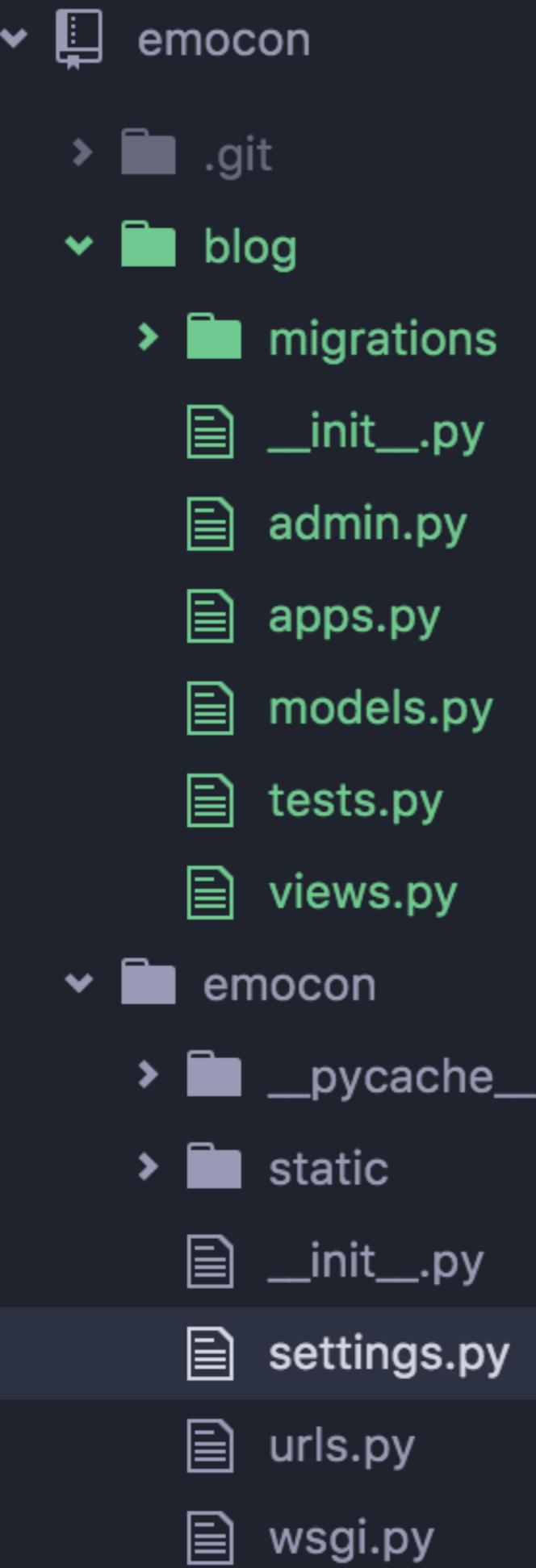
django 호출 구조



Let's Coding

Project Setting

emocon >> settings.py



**INSTALLED_APPS
LANGUAGE_CODE
TIME_ZONE**

emocon >> settings.py

INSTALLED_APPS

```
INSTALLED_APPS = [
    'django.contrib.admin',
    'django.contrib.auth',
    'django.contrib.contenttypes',
    'django.contrib.sessions',
    'django.contrib.messages',
    # Disable Django's own staticfiles handling in favour of WhiteNoise, for
    # greater consistency between gunicorn and `./manage.py runserver`. See:
    # http://whitenoise.evans.io/en/stable/django.html#using-whitenoise-in-development
    'whitenoise.runserver_nostatic',
    'django.contrib.staticfiles',
    'blog', # app 추가 |
]
```

emocon >> settings.py

```
LANGUAGE_CODE = 'ko-kr'  
TIME_ZONE = 'Asia/Seoul'
```

```
# LANGUAGE_CODE = 'en-us'  
# TIME_ZONE = 'UTC'  
  
LANGUAGE_CODE = 'ko-kr'  
TIME_ZONE = 'Asia/Seoul'  
USE_I18N = True  
USE_L10N = True  
USE_TZ = True
```

Post List 페이지

Model

blog >> models.py

The image shows a file tree on the left and a code editor on the right.

File Tree:

- emocon (expanded)
 - .git
 - blog (expanded)
 - migrations
 - `__init__.py`
 - `admin.py`
 - `apps.py`
 - `models.py` (selected)
 - `tests.py`
 - `views.py`

Code Editor (models.py):

```
models.py
1 from django.db import models
2
3 # Create your models here.
4
```

django ORM 이용

```
1 from django.db import models  
2  
3 # Create your models here.  
4 class Post(models.Model):  
5     title = models.CharField("제목", max_length=100)  
6     slug = models.SlugField("Slug", unique=True)  
7     description = models.CharField("설명", max_length=200, blank=True)  
8     content = models.TextField("본문")  
9     create_date = models.DateTimeField("작성일", auto_now_add=True)  
10    modify_date = models.DateTimeField("수정일", auto_now=True)  
11  
12    def __str__(self):  
13        return self.title  
14 |
```

Model DB 반영

DB script 생성

```
$ python manage.py makemigrations
```

DB 반영

```
$ python manage.py migrate
```

```
(env) David-MacBook-Pro:emocon show$ python manage.py makemigrations
Migrations for 'blog':
  0001_initial.py:
    - Create model Post
(env) David-MacBook-Pro:emocon show$ python manage.py migrate
Operations to perform:
  Apply all migrations: blog, admin, sessions, auth, contenttypes
Running migrations:
  Rendering model states... DONE
  Applying blog.0001_initial... OK
(env) David-MacBook-Pro:emocon show$ █
```

View

blog >> views.py

The image shows a file explorer on the left and a code editor on the right. The file explorer displays the directory structure:

- emocon (expanded)
- .git
- blog (expanded)
 - __pycache__
 - migrations
 - __init__.py
 - admin.py
 - apps.py
 - models.py
 - tests.py
 - views.py (selected)

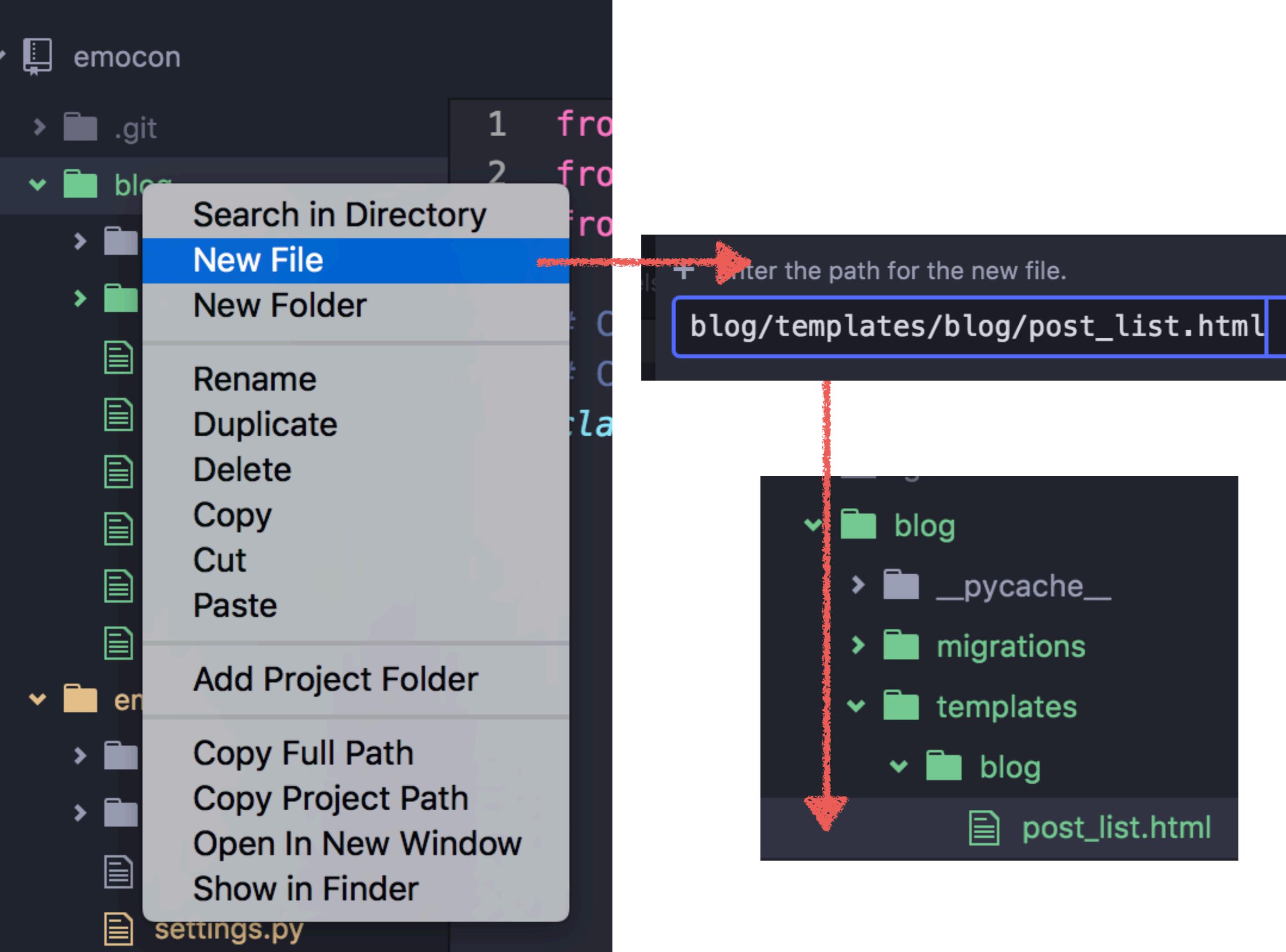
The code editor shows the contents of the selected file, `views.py`:

```
1 from django.shortcuts import render
2
3 # Create your views here.
4 |
5
6
```

CBV(Class Based View)

```
1  from django.shortcuts import render
2  from django.views.generic import ListView
3  from .models import Post
4
5  # Create your views here.
6  # Class Based View Post List
7  class PostLV(ListView):
8      model = Post
9      context_object_name = 'post_list'
10
```

Templates

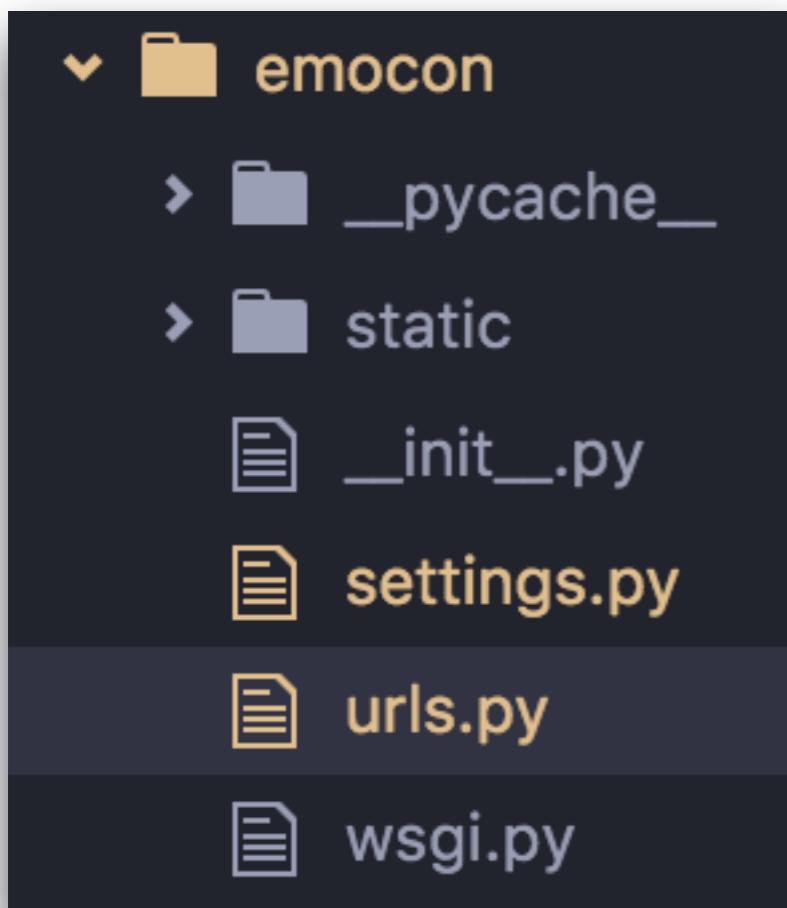


post_list.html

```
1 <h1> 이모콘 블로그 </h1>
2 <ul>
3   {% for post in post_list %}
4     <li> {{ post.title }} / {{ post.modify_date }} </li>
5   {% endfor %}
6 </ul>
7 |
```

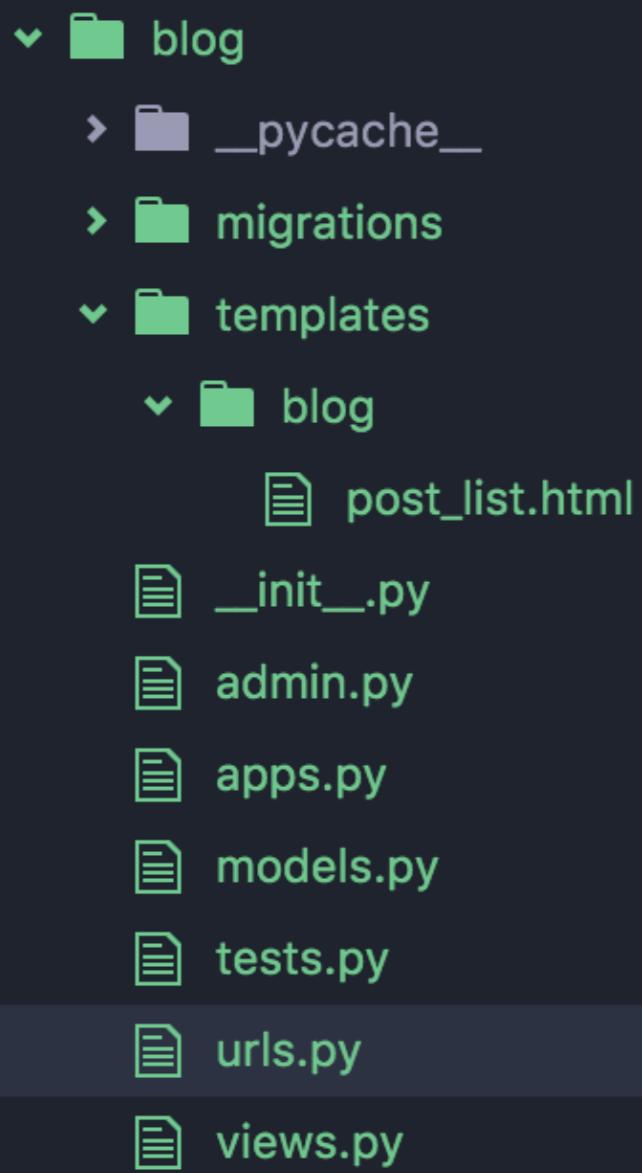
URLConf

emocon >> urls.py



```
16  from django.conf.urls import url, include
17  from django.contrib import admin
18
19  urlpatterns = [
20      url(r'^admin/', admin.site.urls),
21      url(r'^$', include('blog.urls'), name="index"),
22      url(r'^blog/', include('blog.urls'), name="index"),
23 ]
```

blog >> urls.py (파일생성)

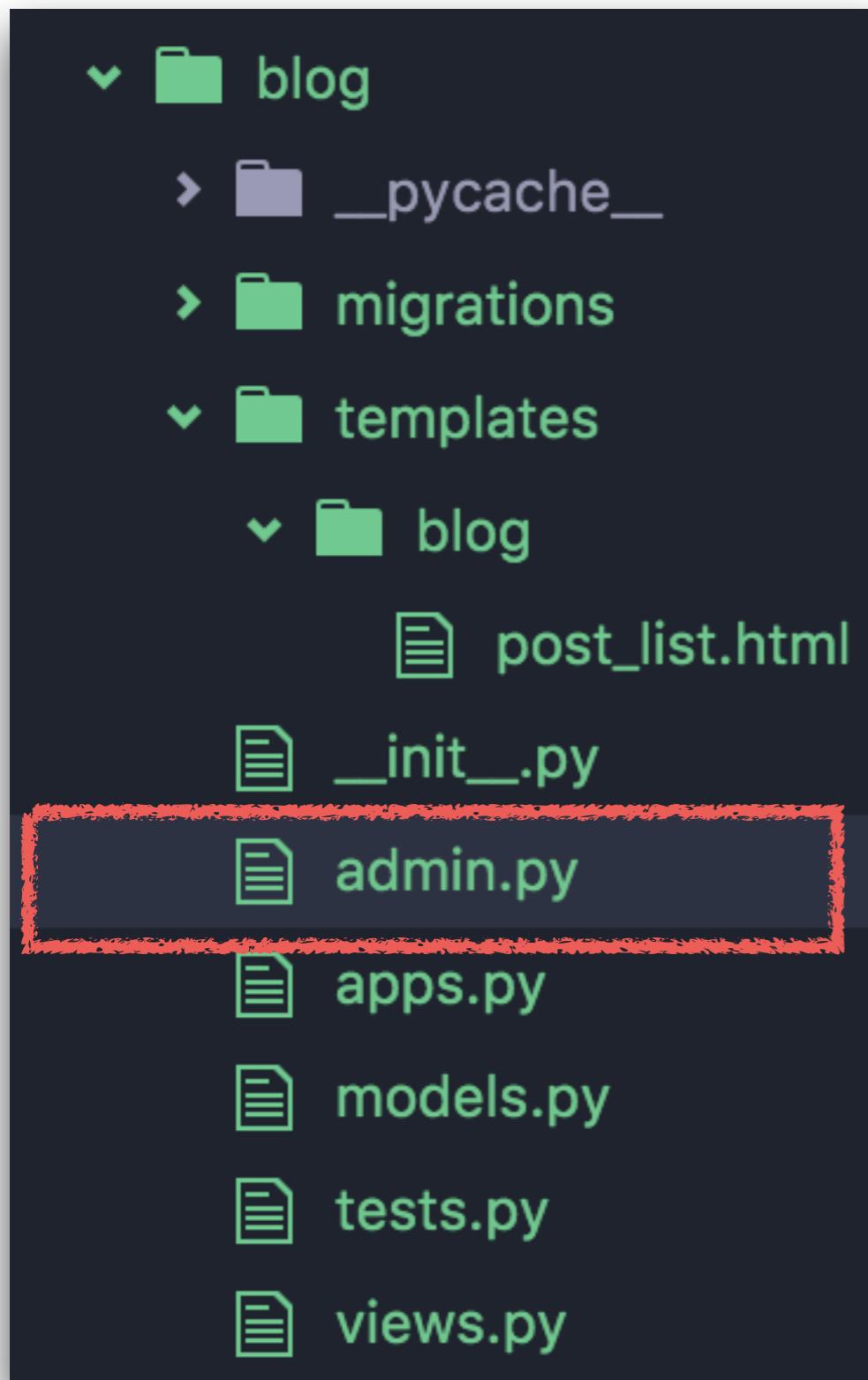


```
from django.conf.urls import url
from django.contrib import admin
from .views import *

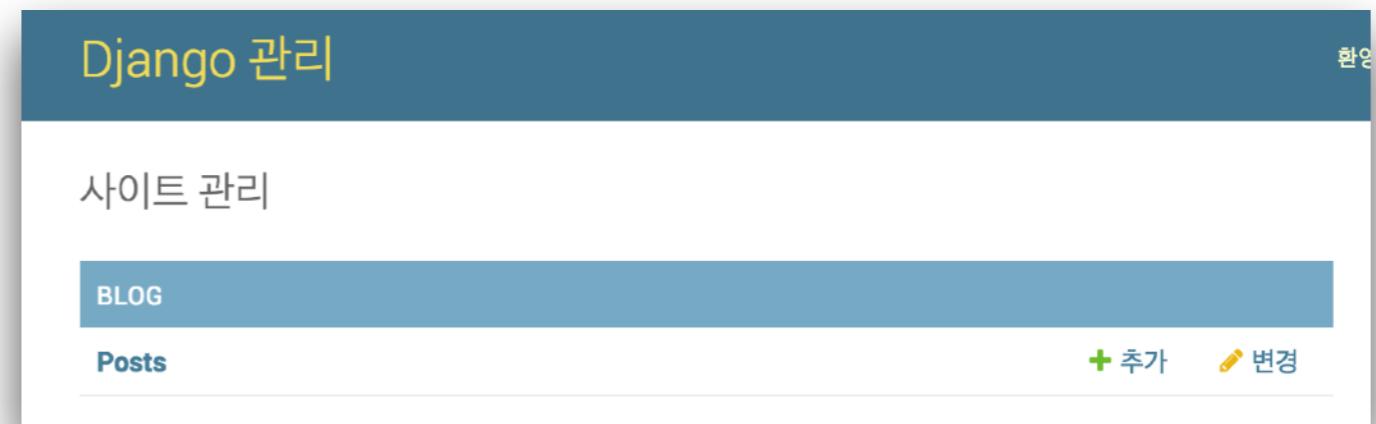
urlpatterns = [
    url(r'^$', PostLV.as_view(), name="list"),
    url(r'^post/$', PostLV.as_view(), name="list"),
]
```

Post 내용 등록

blog >> admin.py



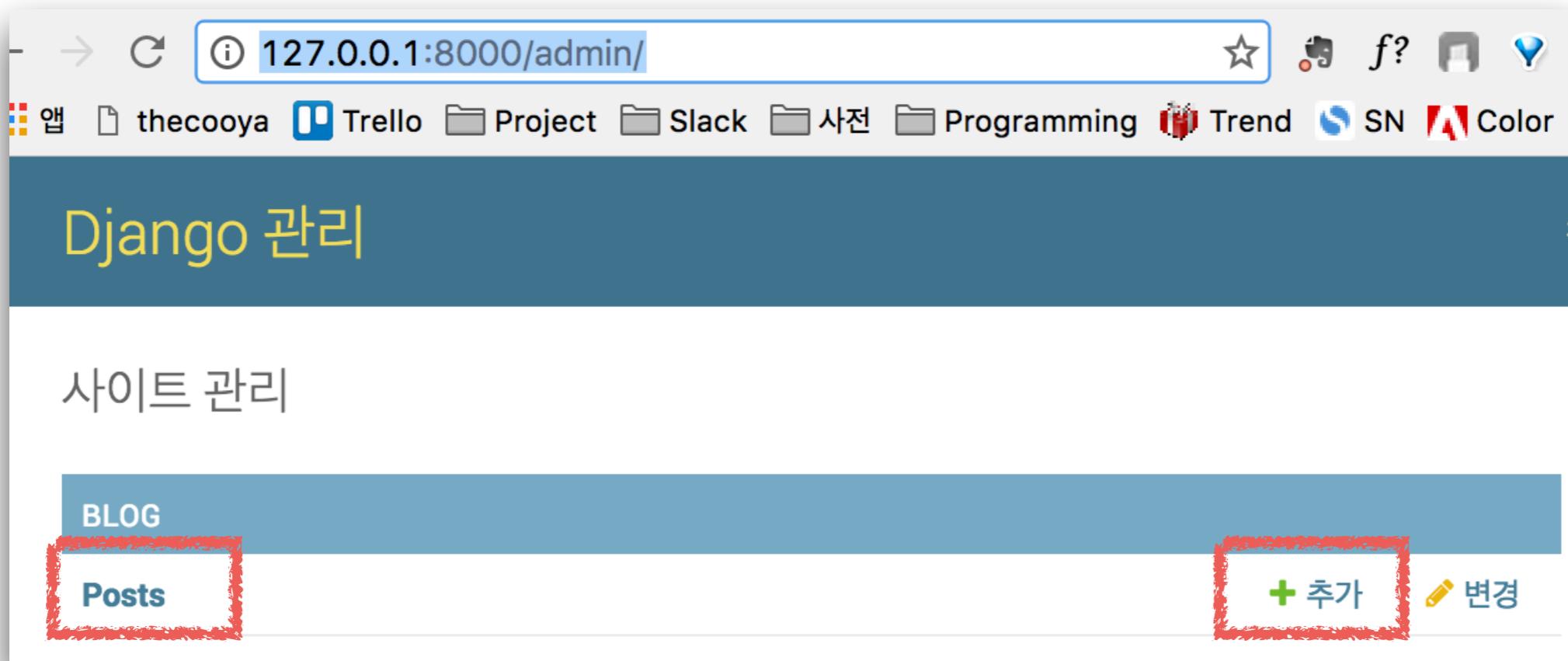
```
1 from django.contrib import admin
2
3 # Register your models here.
4 from .models import Post
5
6 admin.site.register(Post)
7
```



Local 서버 실행

\$ python manage.py runserver

http://127.0.0.1:8000/admin



post 추가

제목: 이모콘 흥해라

Slug: emocon-heung

설명:

본문: 이모콘 흥해라|

저장 및 다른 이름으로 추가 저장 및 편집 계속 저장

변경할 post 선택

액션:



실행

3 중 아무것도 선택되지 않았습니다.



POST



이모콘 삼번



이모콘 2



이모콘 흥해라

3 posts

<http://127.0.0.1:8000/blog/>

이모콘 블로그

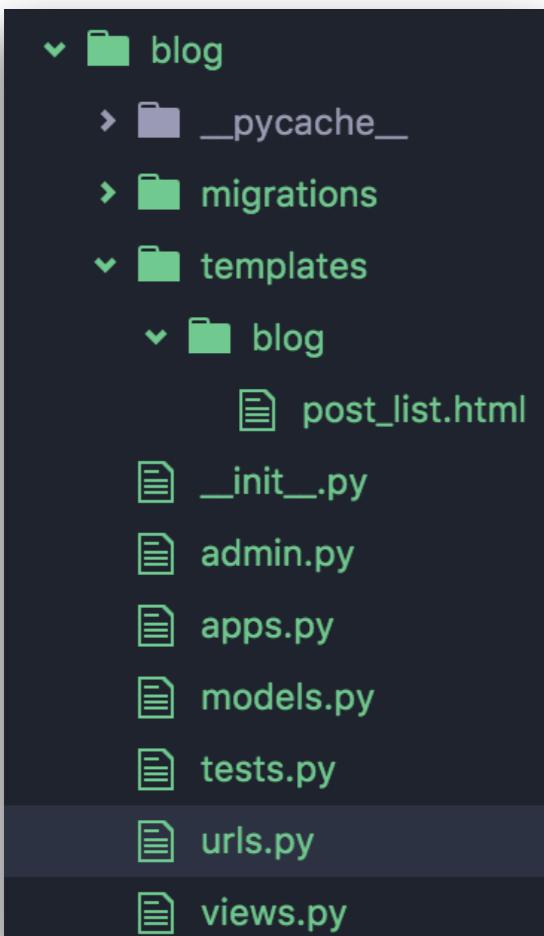
- 이모콘 흥해라 / 2016년 10월 7일 10:08 오후
- 이모콘 2 / 2016년 10월 7일 10:08 오후
- 이모콘 삼번 / 2016년 10월 7일 10:08 오후

Post Detail 페이지

Model
코딩X

URLConf

blog >> urls.py



```
from django.conf.urls import url
from django.contrib import admin
from .views import *

urlpatterns = [
    url(r'^$', PostLV.as_view(), name="list"),
    url(r'^post/$', PostLV.as_view(), name="list"),
    url(r'^post/(?P<slug>[-\w]+)/$', post_detail, name="detail"),
]
```

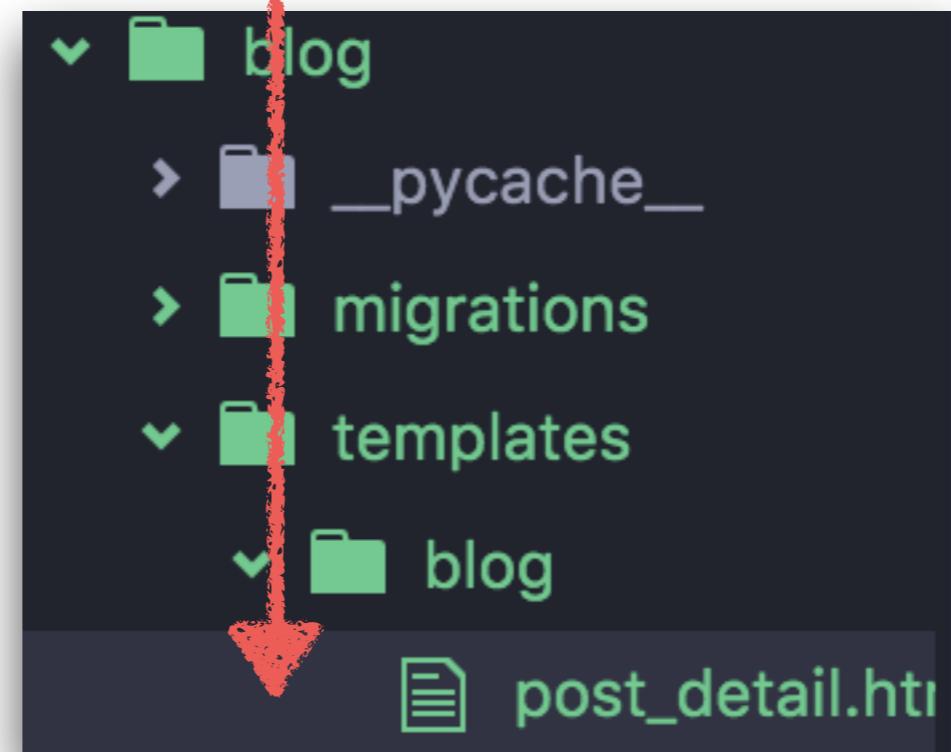
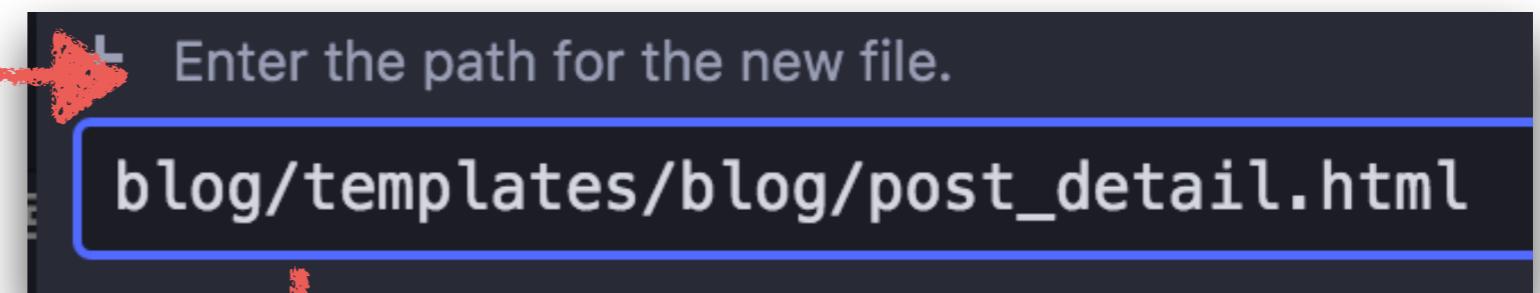
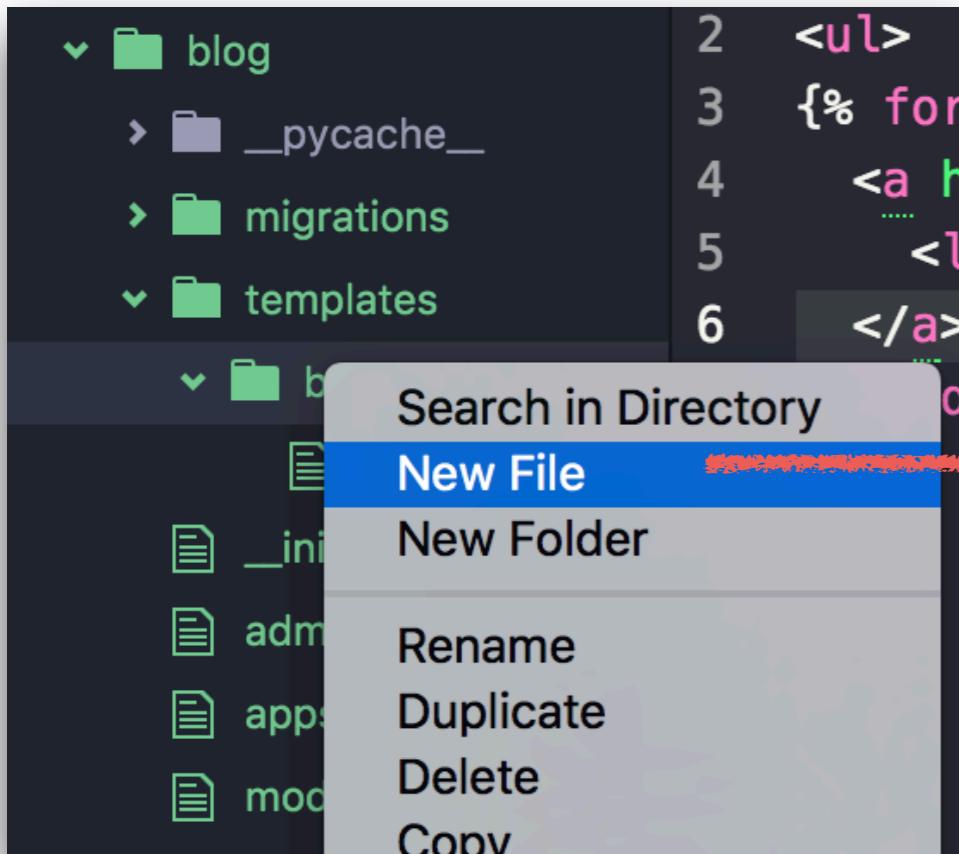
View

FBV(Function Based View)

```
✓ blog
  > __pycache__
  > migrations
  ✓ templates
    ✓ blog
      post_list.html
    __init__.py
    admin.py
    apps.py
    models.py
    tests.py
    urls.py
  views.py
```

```
1 from django.shortcuts import render, get_object_or_404
2 from django.views.generic import ListView
3 from .models import Post
4
5 # Create your views here.
6 # Class Based View Post List
7 class PostLV(ListView):
8     model = Post
9     context_object_name = 'post_list'
10
11
12 def post_detail(request, slug):
13     post = get_object_or_404(Post, slug=slug)
14     return render(request, 'blog/post_detail.html', {'post': post})
```

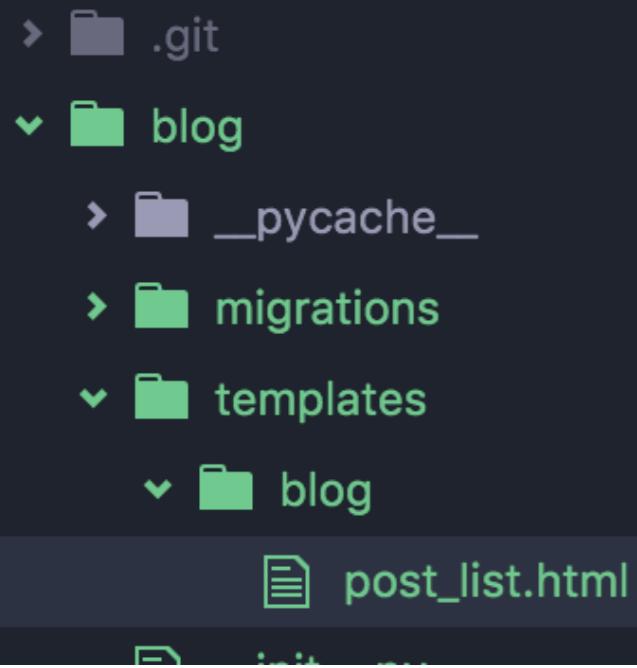
Templates



post_detail.html

```
1 <h1>{{post.title}} </h1>
2     <time datetime="{{ post.modify_date }}">{{ post.modify_date }}</time>
3 <div class="post-content">
4     {{post.content|linebreaksbr}}
5 </div>
```

post_list.html



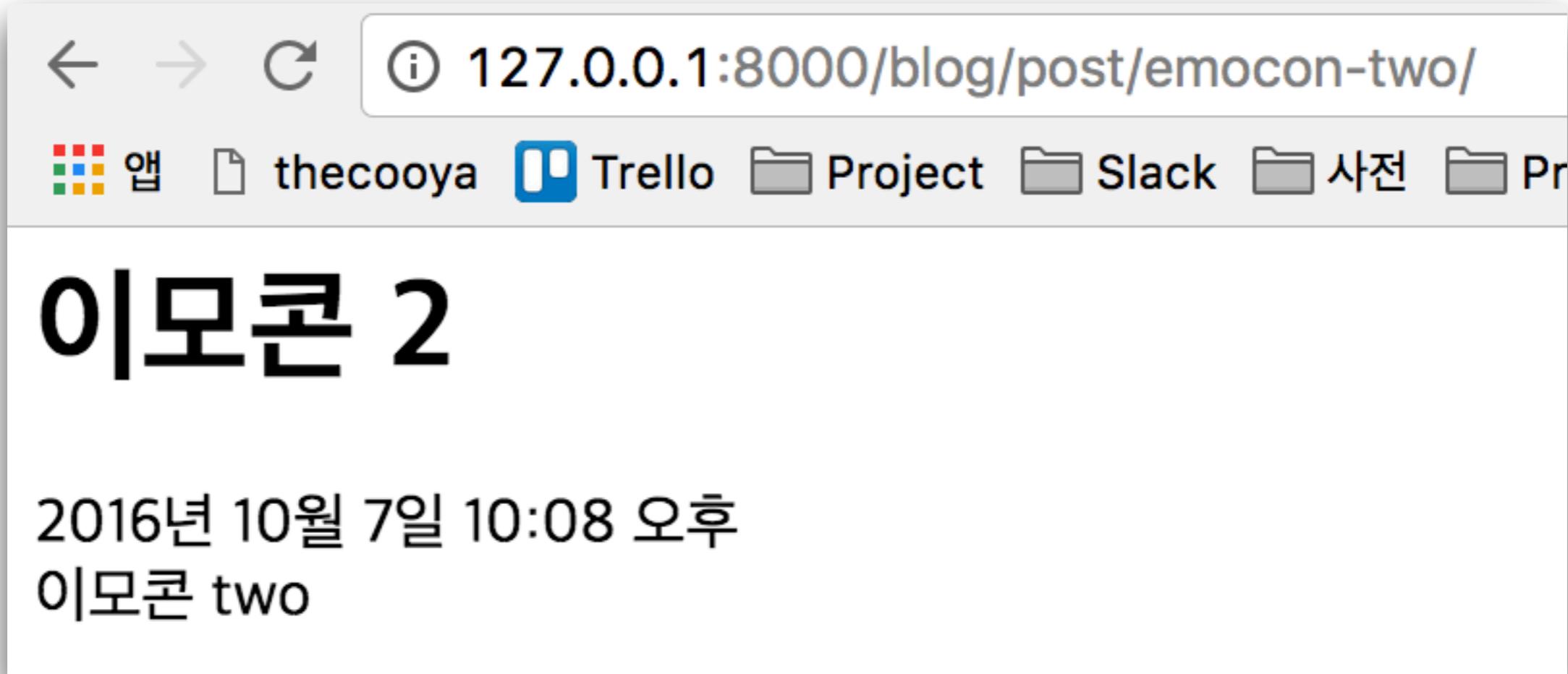
```
1 <h1> 이모콘 블로그 </h1>
2 <ul>
3 {% for post in post_list %}
4     <a href="/blog/post/{{ post.slug }}" >
5         <li> {{ post.title }} / {{ post.modify_date }} </li>
6     </a>
7 {% endfor %}
8 </ul>
```

[**http://127.0.0.1:8000/blog/**](http://127.0.0.1:8000/blog/)

이모콘 블로그

- [이모콘 흥해라 / 2016년 10월 7일 10:08 오후](#)
- [이모콘 2 / 2016년 10월 7일 10:08 오후](#)
- [이모콘 삼번 / 2016년 10월 7일 10:08 오후](#)

http://127.0.0.1:8000/blog/



heroku 에 반영하기

Git 반영하기

```
$ git add .
```

```
$ git commit -m 'blog 완성'
```

```
$ git push heroku master
```

```
^C(emv) David-MacBook-Pro:emocon show$ git add .
(emv) David-MacBook-Pro:emocon show$ git commit -m 'blog 완성'
[master 77a799d] blog 완성
 14 files changed, 115 insertions(+), 3 deletions(-)
 create mode 100644 blog/__init__.py
 create mode 100644 blog/admin.py
 create mode 100644 blog/apps.py
 create mode 100644 blog/migrations/0001_initial.py
 create mode 100644 blog/migrations/__init__.py
 create mode 100644 blog/models.py
 create mode 100644 blog/templates/blog/post_detail.html
 create mode 100644 blog/templates/blog/post_list.html
 create mode 100644 blog/tests.py
 create mode 100644 blog/urls.py
 create mode 100644 blog/views.py
 create mode 100644 db.sqlite3
(emv) David-MacBook-Pro:emocon show$ git push heroku master
```

```
(env) David-MacBook-Pro:emocon show$ git push heroku master
Counting objects: 18, done.
Delta compression using up to 4 threads.
Compressing objects: 100% (17/17), done.
Writing objects: 100% (18/18), 6.83 KiB | 0 bytes/s, done.
Total 18 (delta 4), reused 0 (delta 0)
remote: Compressing source files... done.
remote: Building source:
remote:
remote: -----> Python app detected
remote: $ pip install -r requirements.txt
remote:
remote: $ python manage.py collectstatic --noinput
remote:      58 static files copied to '/app/emocon/staticfiles', 58 post-processed.
remote:
remote: -----> Discovering process types
remote:      Procfile declares types -> web
remote:
remote: -----> Compressing...
remote:      Done: 67.2M
remote: -----> Launching...
remote:      Released v5
remote:      https://emocon1208.herokuapp.com/ deployed to Heroku
remote:
remote: Verifying deploy... done.
To https://git.heroku.com/emocon1208.git
  de17567..77a799d master -> master
(env) David-MacBook-Pro:emocon show$
```

heroku 에 model 반영하기

```
$ heroku run  
python manage.py migrate
```

```
(env) David-MacBook-Pro:emocon show$ heroku run python manage.py migrate
Running python manage.py migrate on ⬤ emocon1208... up, run.6546 (Free)
System check identified some issues:
```

WARNINGS:

```
?: (urls.W001) Your URL pattern '^$' uses include with a regex ending with
Operations to perform:
```

Apply all migrations: blog, sessions, auth, admin, contenttypes

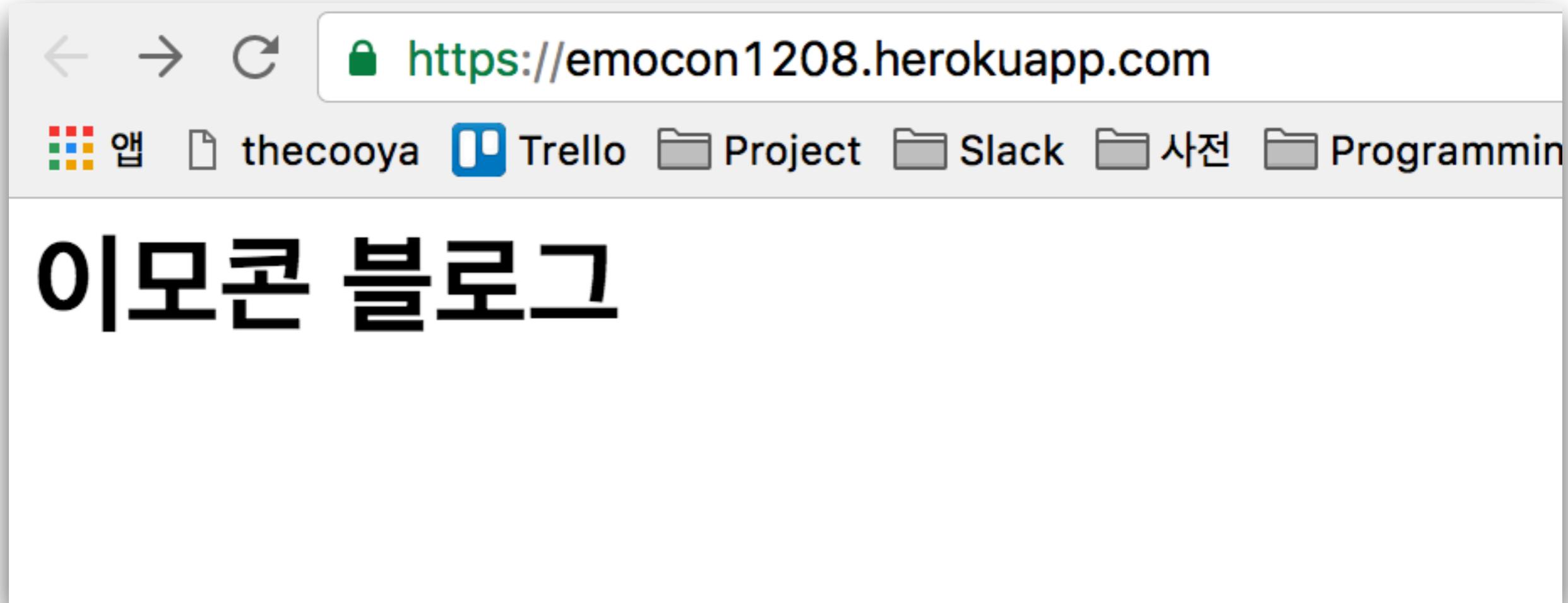
Running migrations:

```
Rendering model states... DONE
```

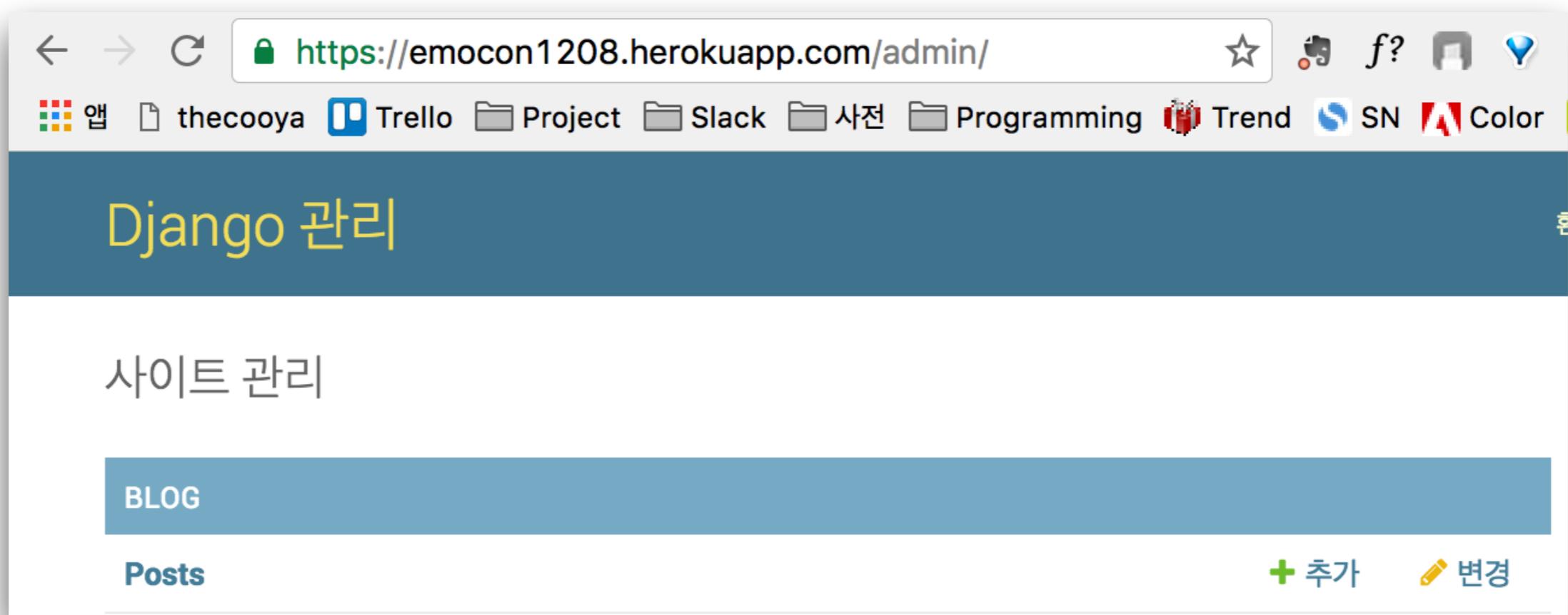
```
Applying blog.0001_initial... OK
```

```
(env) David-MacBook-Pro:emocon show$ █
```

\$ heroku open



내용 추가는 Local 과 동일



추가. 예쁘게 만들기

오늘의 모든 소스는 여기에

<https://github.com/chiyodad/emocon2016-django>

WELCOME TO EMOCON

이 블로그는 이모콘 시연을 위해 [Django](#)로 만들었습니다.

이상한 모임 [공식 블로그](#)로 오세요.

Sample

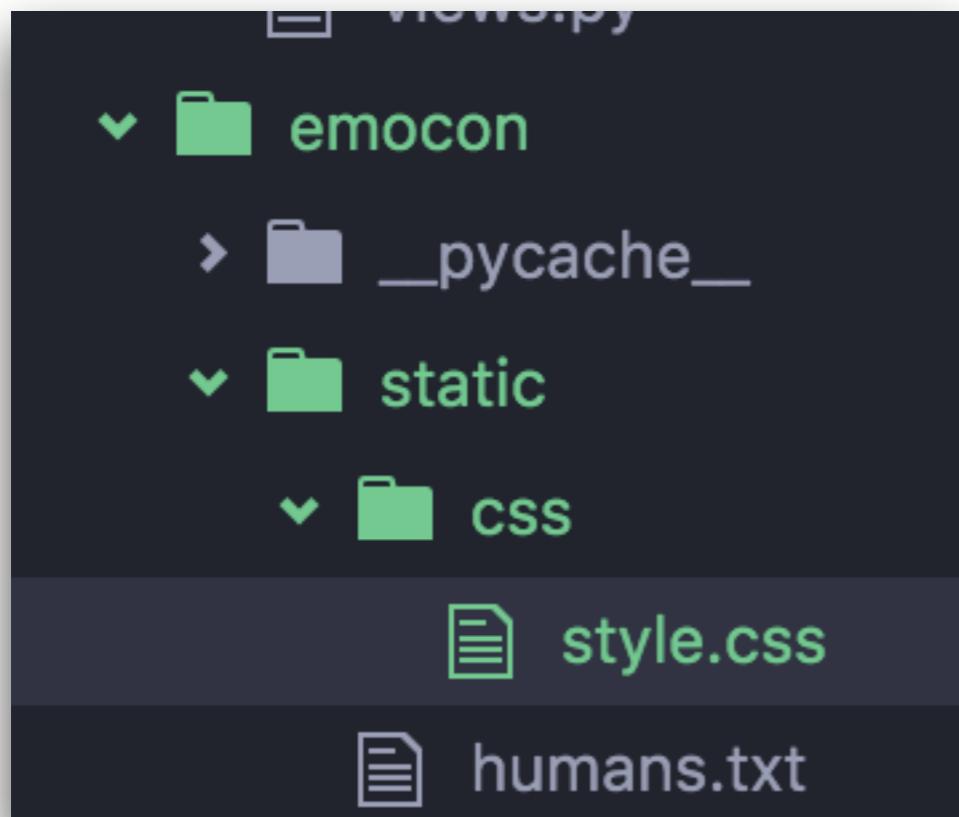
이모콘 성공기원! • 2016년 10월 2일 10:43 오후

이모콘 1일차 • 2016년 10월 2일 10:43 오후

장고 끝에 장고 워크샵 • 2016년 10월 2일 10:44 오후

CSS
(Cascading Style Sheet)

emocon >> static >> CSS >> style.css 추가



```
1  /*!normalize.css v2.1.2 | MIT License | git.io/normalize */
2
3  article,
4  aside,
5  details,
6  figcaption,
7  figure,
8  footer,
9  header,
10 hgroup,
11 main,
12 nav,
13 section,
14 summary {
15     display: block
16 }
17 audio,
18 canvas,
19 video {
20     display: inline-block
21 }
22 audio:not([controls]) {
23     display: none;
24     height: 0
25 }
26 [hidden] {
27     display: none
28 }
29 html {
30     font-family: sans-serif;
31     -ms-text-size-adjust: 100%;
32     -webkit-text-size-adjust: 100%
33 }
```

<https://github.com/chiyodad/emocon2016-django/blob/master/emocon/static/css/style.css>

파일 내용을 복사하여 넣기

Templates 수정

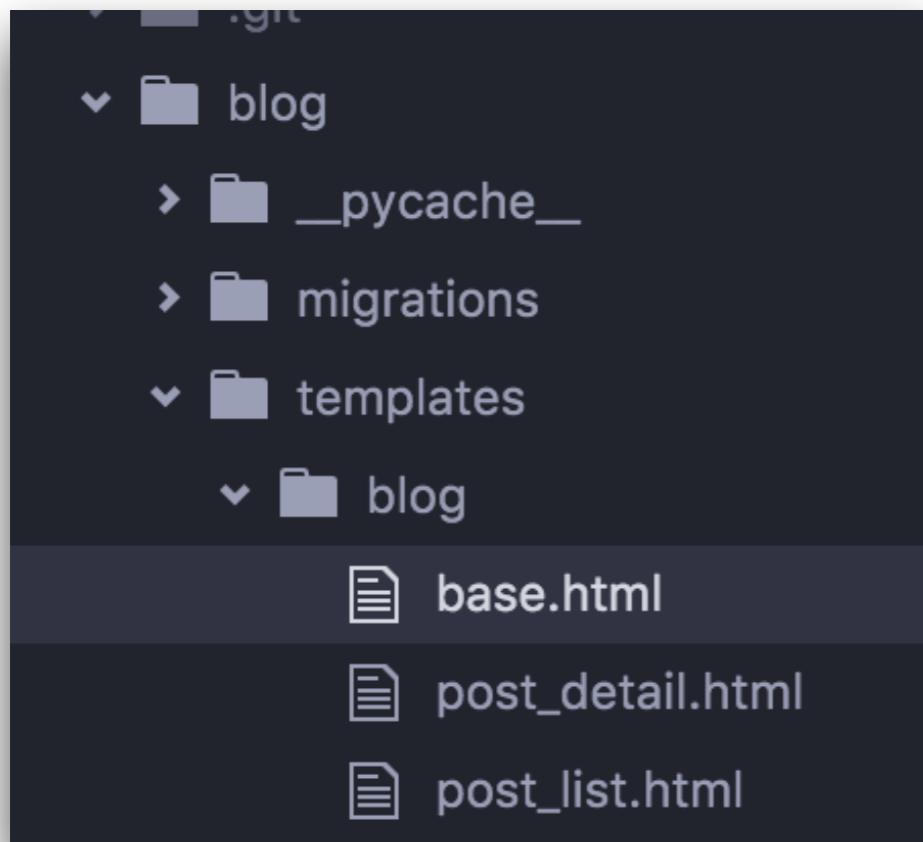
base.html (생성)

post_list.html (수정)

post_detail.html (수정)

<https://github.com/chiyodad/emocon2016-django/tree/master/blog/templates/blog>

blog >> templates >> blog



```
<title> Django Blog </title>
<link rel="stylesheet" type="text/css" href="{% static 'css/style.css' %}" />
```

static file 수집

\$ python manage.py collectstatic

```
^C(emv) David-MacBook-Pro:emocon show$ python manage.py collectstatic
You have requested to collect static files at the destination
location as specified in your settings:

/Users/show/emocon/emocon/staticfiles

This will overwrite existing files!
Are you sure you want to do this?

Type 'yes' to continue, or 'no' to cancel: yes
Copying '/Users/show/emocon/emocon/static/humans.txt'
Copying '/Users/show/emocon/emocon/static/css/style.css'
Copying '/Users/show/emocon/env/lib/python3.5/site-packages/django/contrib/admin/static/admin/css/base.css'
Copying '/Users/show/emocon/env/lib/python3.5/site-packages/django/contrib/admin/static/admin/css/changelists.css'
Copying '/Users/show/emocon/env/lib/python3.5/site-packages/django/contrib/admin/static/admin/css/dashboard.css'
Copying '/Users/show/emocon/env/lib/python3.5/site-packages/django/contrib/admin/static/admin/css/fonts.css'
Copying '/Users/show/emocon/env/lib/python3.5/site-packages/django/contrib/admin/static/admin/css/forms.css'
Copying '/Users/show/emocon/env/lib/python3.5/site-packages/django/contrib/admin/static/admin/css/print.css'
```

heroku 반영

```
$ git add .
```

```
$ git commit -m 'add css'
```

```
$ git push heroku master
```

더 알고 싶다면!

실습

1.



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[국내도서] 파이썬 웹 프로그래밍 실전편 - Django(장고)를 활용한 쉽고 빠른 웹 개발 | 파이썬 웹 프로그래밍

김석훈 (지은이) | 한빛미디어 | 2016년 7월

30,000원 → **27,000원** (10% 할인), 마일리지 1,500점 (5% 적립)

★★★★★ (1) | 세일즈포인트 : 1,600

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[보관함 ▾](#)

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알라딘 중고

회원중고 (9)

21,000원

-

22,000원

이론

2.



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[국내도서] 파이썬 웹 프로그래밍 - Django(장고)로 배우는 쉽고 빠른 웹 개발 | 파이썬 웹 프로그래밍

김석훈 (지은이) | 한빛미디어 | 2015년 4월

20,000원 → **18,000원** (10% 할인), 마일리지 1,000점 (5% 적립)

★★★★★ (3) | 세일즈포인트 : 2,194

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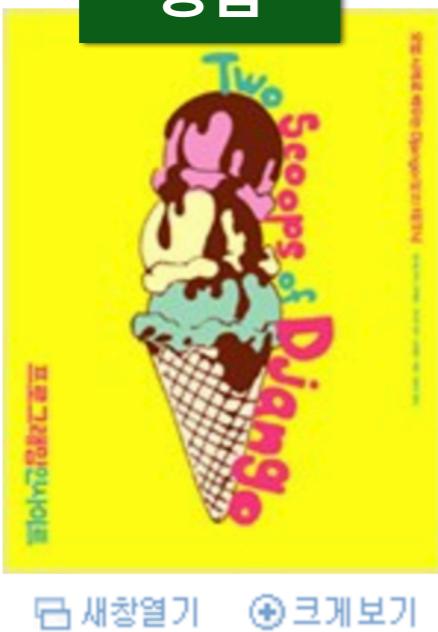
회원중고 (15)

14,000원

-

14,000원

중급



[수험서.외국어.컴퓨터.전문서적 - 에코백, 보온 텀블러 등 사은품 8종!]

(국내도서) **Two Scoops of Django** - 모범 사례로 배우는 Django(장고)

테크닉 | Programming Insight

대니얼 로이 그린펠드, 오드리 로이 그린펠드 (지은이), 김승진 (옮긴이) | 인사

이트 | 2016년 8월

32,000원 → **28,800원** (10% 할인), 마일리지 1,600점 (5% 적립)

세일즈포인트 : 575

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장바구니

바로 구매

보관함 ▾

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알라딘 중고

회원중고

- * 장고걸스 튜토리얼(<https://tutorial.djangogirls.org/ko/>)
장고 튜토리얼 한글 번역본 - 1.5 기준
(<https://django-document-korean.readthedocs.io/en/latest/intro/overview.html>)

장고 끝에 장고 워크샵

<https://shop.weirdx.io/product/workshop-django/>



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이상한모임 @chiyodad