

## Writing your first Django app, part 6

This tutorial begins where [Tutorial 5](#) left off. We've built a tested web-poll application, and we'll now add a stylesheet and an image.

Aside from the HTML generated by the server, web applications generally need to serve additional files — such as images, JavaScript, or CSS — necessary to render the complete web page. In Django, we refer to these files as “static files”.

For small projects, this isn't a big deal, because you can keep the static files somewhere your web server can find it. However, in bigger projects — especially those comprised of multiple apps — dealing with the multiple sets of static files provided by each application starts to get tricky.

That's what **django.contrib.staticfiles** is for: it collects static files from each of your applications (and any other places you specify) into a single location that can easily be served in production.



**Where to get help:**

If you're having trouble going through this tutorial, please head over to the [Getting Help](#) section of the FAQ.

### Customize your *app's* look and feel

First, create a directory called **static** in your **polls** directory. Django will look for static files there, similarly to how Django finds templates inside **polls/templates/**.

Django's **STATICFILES\_FINDERS** setting contains a list of finders that know how to discover static files from various sources. One of the defaults is **AppDirectoriesFinder** which looks for a “static” subdirectory in each of the **INSTALLED\_APPS**, like the one in **polls** we just created. The admin site uses the same directory structure for its static files.

Within the **static** directory you have just created, create another directory called **polls** and within that create a file called **style.css**. In other words, your stylesheet should be at **polls/static/polls/style.css**. Because of how the **AppDirectoriesFinder** staticfile finder works, you can refer to this static file in Django as **polls/style.css**, similar to how you reference the path for templates.



**Static file namespacing**

Just like templates, we *might* be able to get away with putting our static files directly in **polls/static** (rather than creating another **polls** subdirectory), but it would actually be a bad idea. Django will choose the first static file it finds whose name matches, and if you had a static file with the same name in a *different* application, Django would be unable to distinguish between them. We need to be able to point Django at the right one, and the best way to ensure this is by *namespacing* them. That is, by putting those static files inside *another* directory named for the application itself.

Put the following code in that stylesheet (**polls/static/polls/style.css**):

polls/static/polls/style.css



```
li a {
  color: green;
}
```

Next, add the following at the top of **polls/templates/polls/index.html**:

polls/templates/polls/index.html

```
{% load static %}

<link rel="stylesheet" href="{% static 'polls/style.css' %}">
```

Getting Help

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The `{% static %}` template tag generates the absolute URL of static files.

That's all you need to do for development.

Start the server (or restart it if it's already running):



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

Reload `http://localhost:8000/polls/` and you should see that the question links are green (Django style!) which means that your stylesheet was properly loaded.

## Adding a background-image


Next, we'll create a subdirectory for images. Create an `images` subdirectory in the `polls/static/polls/` directory. Inside this directory, add any image file that you'd like to use as a background. For the purposes of this tutorial, we're using a file named `background.png`, which will have the full path `polls/static/polls/images/background.png`.

Then, add a reference to your image in your stylesheet (`polls/static/polls/style.css`):

```
polls/static/polls/style.css

body {
    background: white url("images/background.png") no-repeat;
}
```

Reload `http://localhost:8000/polls/` and you should see the background loaded in the top left of the screen.

**Warning**

The `{% static %}` template tag is not available for use in static files which aren't generated by Django, like your stylesheet. You should always use **relative paths** to link your static files between each other, because then you can change STATIC\_URL (used by the static template tag to generate its URLs) without having to modify a bunch of paths in your static files as well.

These are the **basics**. For more details on settings and other bits included with the framework see the static files howto and the staticfiles reference. Deploying static files discusses how to use static files on a real server.

When you're comfortable with the static files, read part 7 of this tutorial to learn how to customize Django's automatically-generated admin site.