Getting started with Django

Django is an easy to use web framework that uses Python as its central language. It has a lot of libraries built-in to help with user authentication, web administration and others. It's also meant to create websites extremely quickly so Django does a lot for you, like creating the Model-View-Controller directory structure of your app. To get started, here are some steps you can take.

Installation steps
These steps outline the official steps on the Django website:
https://docs.djangoproject.com/en/1.10/topics/install/
1. Install Python. Django works with Python 2 or 3, so use whatever floats your boat
2. Install **pip** (an installer for python). You can get pip here
3. (Optional) Django recommends using a virtual environment for all your packages. This basically means that instead of installing python packages globally, you create an isolated environment to deploy your app. The benefit is that you isolate what you need to run your app so you can deploy it easier on another computer. More information about virtualenv is here.
4. Install Django by running

   ```
   pip install Django
   ```
   It's really important to download the correct version of Django depending on if you have Python 2 or 3. See here.
5. Check if everything is installed correctly by running

   ```
   python -m django --version
   ```
6. Pick a database for you to use. Django can be used with postgresql, MySQL, and SQLite. You'll need to install the relevant package in python to run your database. More information can be found here
7. Then, you can start a project called "mysite" by running

   ```
   django-admin startproject mysite
   ```
   This creates the initial directory structure for Django. It has:
   - manage.py – the python file to actually run the site. You can run a site locally with the command: `python manage.py runserver`
   - settings.py – a project configuration file
   - urls.py – a file that gives the structures of the urls for your site like mysite.com/inventory?sort=price
   - wsgi.py – don't worry about this one now
8. Start making some apps!

Django Tutorials
- The best tutorial by far is the official Django Project tutorial, Writing Your First Django App. It goes over how to make a polling app
- Djangogirls also has a great tutorial that explains Django pretty well as you make a fake blog site
- Last, try scotch.io's tutorial, which also gives an overview of python as a language if you're unfamiliar