



INTRODUCTION TO DJANGO

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WHAT IS DJANGO?

- “The web framework for perfectionists with deadlines”
- Free, open-source, and written in Python – <http://www.djangoproject.com>
- Follows the Model-View-Template pattern (similar to Model-View-Controller)
- First public release was in 2005.
- Current release is 1.10.4. Current long-term support (LTS) release is 1.8. Current support for both Python 2.7 and Python 3.4+.
- Often called a “batteries included” framework because of all the built-in functionality such as ORM, template language, authentication, administrative interface, etc.

REQUEST-RESPONSE CYCLE

- http://rnevius.github.io/django_request_response_cycle.png

LET'S BUILD A SIMPLE DJANGO-BASED APP

- Our goal: A directory of doctors and their specialties.
- Secure administrative backend to allow doctor data to be entered.
- Front-end anonymous viewing of doctor data.
- SQLite database

GETTING STARTED

- Assuming Python 2.7 or 3.4+ already installed...
- Install Django (ideally within a virtualenv):
 - `pip install Django` (or specify version if you don't want the latest)
- Start a Django project:
 - `django-admin startproject doctors`
- Start an app:
 - `python manage.py startapp directory`
- Test it through built-in web server:
 - `python manage.py runserver`