

## Python 2.1 Questions

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**1. Why is Django so popular?** Django is popular because it follows a "batteries-included" philosophy, meaning it comes with robust features like authentication, an admin panel, and database management right out of the box. Its emphasis on security, scalability, and the clean syntax of Python allows developers to build complex, high-performing web applications very quickly.

### 2. Five large companies that use Django:

- **Instagram:** Uses Django to handle the massive volume of data and user interactions for the world's largest photo-sharing platform.
- **Spotify:** Utilizes Django for its backend services and API to manage user data and music recommendations.
- **Dropbox:** Uses Django to manage user history, file synchronization metadata, and sharing features across devices.
- **Pinterest:** Relies on Django to manage millions of users and the complex relationships between images (pins) and boards.
- **Mozilla (Firefox):** Uses Django for its support site (MDN Web Docs) and various add-on services due to its stability and open-source nature.

### 3. Scenario Analysis:

- **You need to develop a web application with multiple users:**
  - **YES.** Django has a built-in, secure user authentication system (login/logout/signup) that saves weeks of coding time.
- **You need fast deployment and the ability to make changes as you proceed:**
  - **YES.** Django is designed for rapid development. Its "DRY" (Don't Repeat Yourself) principle and migration tools make iterating on features very fast.
- **You need to build a very basic application, which doesn't require any database access:**
  - **NO.** Django is "heavy" and opinionated. For a simple static site or tool, a micro-framework like Flask or even simple HTML/CSS is better.

- **You want to build an application from scratch and want a lot of control:**
  - **NO.** Django is "opinionated," meaning it forces you to use its specific directory structure and ORM. If you want total control over every component, Flask or FastAPI is a better choice.
- **You're about to start working on a big project and are afraid of getting stuck:**
  - **YES.** Django has one of the largest communities and best documentation in the software world. If you get stuck, the answer is almost certainly already online.