



# Setting Up Your Django Development Environment

Get started building Django web applications by setting up your development environment, making sure you have all the essential tools and libraries you need.

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# Why A Development Environment?

Provides a structured setup for  
Efficient development workflows.

Helps in managing dependencies,  
versions, and tools specific to your project.

Ensures compatibility across different  
Systems and platforms.

Ensures your project works across  
different computers



# Essential Tools

Python 3.12+

Programming language for  
Django development

Pip

Package manager for  
installing Python libraries

Virtual Environment

Isolates dependencies for  
each project

Code Editor

Recommended: VS Code,  
PyCharm, or Sublime Text





# Installing Python



## Download Python

Visit [Python.org](https://python.org) and get Python 3.12 or newer



## Verify Installation

Open a terminal and run:  
`python --version`

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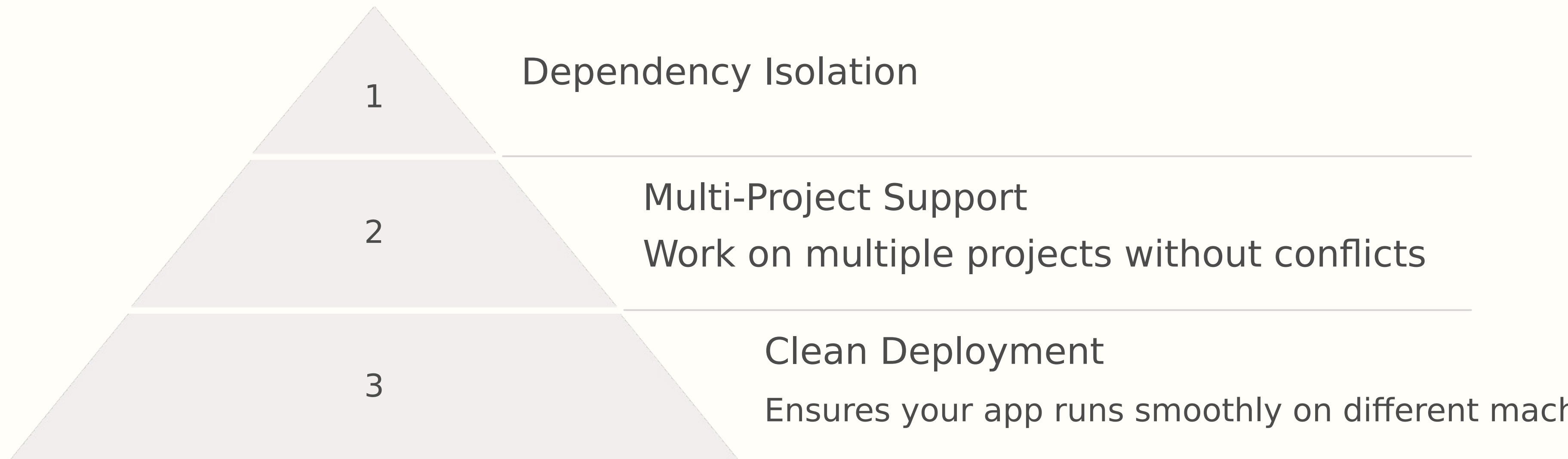
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# What is a Virtual Environment?



# Creating and Activating a Virtual Environment

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pip
```

1

Create Environment

`python -m venv myenv`

2

Activate Environment

`source myenv/bin/activate`

3

Verify Activation

`python --version`

# Installing and Testing Django

1

Install Django

`pip install django`

2

Verify Installation

`django-admin --version`

3

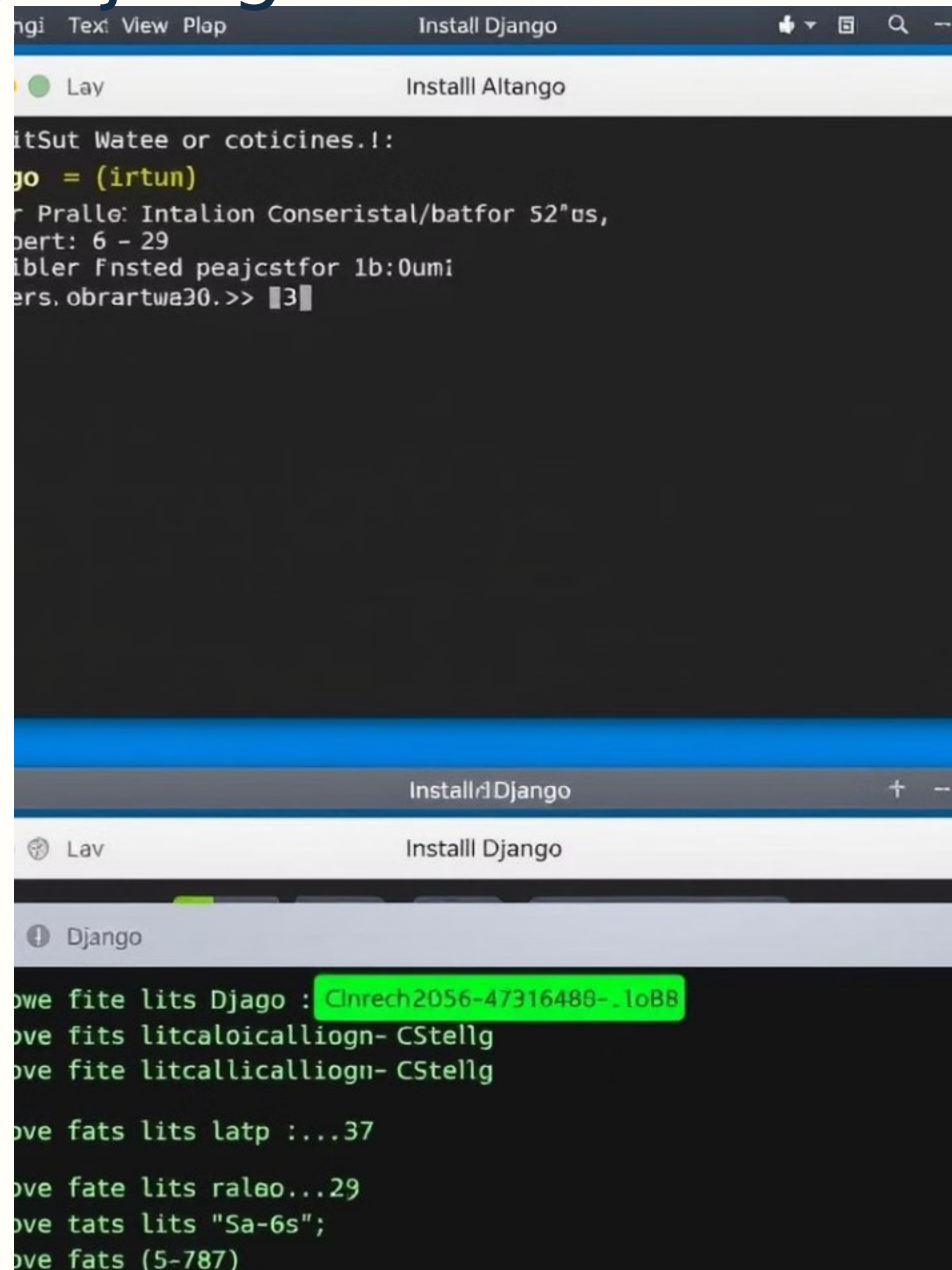
Create a Project

`django-admin startproject myproject`

4

Run the Server

`python manage.py runserver`



The screenshot shows a terminal window with the title 'Install Django'. The terminal output is as follows:

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Below the terminal window, there are two tabs labeled 'Install Django'. The first tab is active and shows the following output:

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# Summary of Development Environment Setup

Installed Python and verified the installation.

Created and activated a virtual environment.

Installed and checked Pip.

Installed Django and tested the installation by running a development server.





## What's Next?

- In the next video, we'll build first Django app.
- Explore Django's project structure and configure the initial settings.

THANK YOU!



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