### 🌐 1. What is Template Inheritance?

Django supports a **template inheritance system** to help you **reuse common layout and structure** (like headers, footers, navbars) without repeating code.

It follows a **base-child** structure, where:

* A **base template** provides the overall layout.
* A **child template** can **extend** it and override parts of it using {% block %}.

### 📘 2. {% extends %} Tag

**Purpose:**  
Tells Django that this template **inherits from** another template.

**Syntax:**

{% extends "base.html" %}

* This must be the **first line** of your template (excluding comments or load statements).
* It **does not have an ending tag**.

**Usage:**  
Used in child templates to pull in the layout from the base template.

### 📗 3. {% block %} Tag

**Purpose:**  
Defines **replaceable sections** in templates. Content inside these blocks can be overridden by child templates.

**Syntax in base template:**

django

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{% block content %}

<p>Default content here.</p>

{% endblock content %}

**Syntax in child template (to override):**

django

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{% block content %}

<p>Overridden content here.</p>

{% endblock content %}

**Rules:**

* Block names **must be unique** within a template.
* You can define **default content** inside a block in the base template.
* Child templates **override** blocks with the same name.

### 📙 4. {{ block.super }} — Use & Importance

**Purpose:**  
When overriding a block in a child template, {{ block.super }} allows you to **include the original content** from the parent block **within** the child block.

**Syntax:**

django

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{% block content %}

<p>Child content before.</p>

{{ block.super }}

<p>Child content after.</p>

{% endblock content %}

**Why use it?**

* To **append** or **prepend** content without fully replacing the parent's block content.
* Helpful when base templates define common content like scripts, styles, or messages.

**Note:**  
{{ block.super }} is only valid **inside a block that overrides another block**.

### 📒 5. Default Behavior Summary

| **Feature** | **Description** |
| --- | --- |
| {% extends %} | Used to inherit from another template. Must be first tag. |
| {% block %} | Defines replaceable content. Can have default content. |
| {{ block.super }} | Refers to the parent block’s content inside overridden block. |

### 📌 Example: Full Usage

#### 🔹 base.html

html

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<!DOCTYPE html>

<html>

<head>

<title>{% block title %}My Site{% endblock title %}</title>

</head>

<body>

<header>

{% block header %}

<h1>Welcome to My Site</h1>

{% endblock header %}

</header>

<main>

{% block content %}

<p>This is the default content.</p>

{% endblock content %}

</main>

<footer>

{% block footer %}

<p>&copy; 2025 My Site</p>

{% endblock footer %}

</footer>

</body>

</html>

#### 🔹 child.html

html

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{% extends "base.html" %}

{% block title %}Home Page - My Site{% endblock title %}

{% block content %}

<p>This is the home page content.</p>

{{ block.super }}

{% endblock content %}

### 🧠 Tips

* Always use **meaningful block names** like content, title, scripts, etc.
* Avoid duplicate block names in the same file.
* You can nest {% block %} tags inside conditional or loop structures if needed, but this is rare.