

Template Inheritance/ Template Extending

Template inheritance allows you to build a base “skeleton” template that contains all the common elements of your site and defines blocks that child templates can override.

The *extends* tag is used to inherit template.

`extends` tag tells the template engine that this template “extends” another template.

When the template system evaluates this template, first it locates the parent let’s assume, “base.html”.

At that point, the template engine will notice the block tags in base.html and replace those blocks with the contents of the child template.

You can use as many levels of inheritance as needed.

extends Tag

{% extends %} – The *extends* tag is used to inherit template. It tells the template engine that this template “extends” another template. It has no end tag.

Syntax:-

```
{% extends 'parent_template_name' %}
```

```
{% extends variable %}
```

Example:-

```
{% extends "../base1.html" %}
```

```
{% extends "../base2.html" %}
```

```
{% extends "../my/base3.html" %}
```

```
{% extends something %}
```

block Tag

{% block %} – The *block* tag is used to for overriding specific parts of a template.

Syntax:-

```
{% block blockname %}....{% endblock %}
```

```
{% block blockname %}....{% endblock blockname %}
```

Example:-

```
{% block title %} ..... {% endblock %}
```

```
{% block content %}..... {% endblock content %}
```

Rules

- If We use `{% extends %}` in a template, it must be the first template tag in that template. Template inheritance won't work, otherwise.
- More `{% block %}` tags in our base templates are better.
- Child templates don't have to define all parent blocks, so we can fill in reasonable defaults in a number of blocks, then only define the ones we need later.
- We Can't define multiple block tags with the same name in the same template.
- If We need to get the content of the block from the parent template, the `{{ block.super }}` variable will do the trick.

Creating Base/Parent Template and Child Template

We write common codes in base template and create blocks for code which may vary page to page. Later this template will be inherited by child templates and child template will override created blocks.

home.html

```
<html>
<head>
<title>Home</title>
</head>
<body>
<h1>Hello I am Home Page</h1>
</body>
</html>
```

base.html

```
<html>
<head>
<title>{% block title %} {% endblock %}</title>
</head>
<body>
{% block content %} {% endblock content %}
</body>
</html>
```

about.html

```
<html>
<head>
<title>About</title>
</head>
<body>
<h1>Hello I am About Page</h1>
</body>
</html>
```

home.html

```
{% extends 'base.html' %}

{% block title %}
    Home
{% endblock %}

{% block content %}
    <h1>Hello I am Home Page </h1>
{% endblock content %}
```

about.html

```
{% extends 'base.html' %}

{% block title %}
    About
{% endblock %}

{% block content %}
    <h1>Hello I am About Page </h1>
{% endblock content %}
```

Creating Base/Parent Template and Child Template

base.html

```
<html>
<head>
<title>{% block title %} Other {% endblock %}</title>
</head>
<body>
{% block content %} {% endblock content %}
</body>
</html>
```

home.html

```
<html>
<head>
<title>Home</title>
</head>
<body>
<h1>Hello I am Home Page</h1>
</body>
</html>
```

home.html

```
{% extends 'base.html' %}

{% block title %}
    Home
{% endblock %}

{% block content %}
    <h1>Hello I am Home Page</h1>
{% endblock content %}
```

about.html

```
{% extends 'base.html' %}

{% block content %}
    <h1>Hello I am About Page</h1>
{% endblock content %}
```

about.html

```
<html>
<head>
<title>Other</title>
</head>
<body>
<h1>Hello I am About Page</h1>
</body>
</html>
```

Creating Base/Parent Template and Child Template

base.html

```
<html>
<head>
<title>{% block title %} Other {% endblock %}</title>
</head>
<body>
{% block content %} {% endblock content %}
</body>
</html>
```

home.html

```
{% extends 'base.html' %}
{% block title %} {{block.super}}
Home{% endblock %}

{% block content %}
    <h1>Hello I am Home Page </h1>
{% endblock content %}
```

about.html

```
{% extends 'base.html' %}

{% block content %}
    </h1>Hello I am About Page</h1>
{% endblock content %}
```

home.html

```
<html>
<head>
<title>Other Home</title>
</head>
<body>
<h1>Hello I am Home Page</h1>
</body>
</html>
```

about.html

```
<html>
<head>
<title>Other</title>
</head>
<body>
<h1>Hello I am About Page</h1>
</body>
</html>
```

Creating Base/Parent Template and Child Template

base.html

```
<html>
<head>
<title>{% block title %} Other {% endblock %}</title>
</head>
<body>
{% block content %} {% endblock content %}
{% block somecontent1 %} {% endblock somecontent1 %}
{% block somecontent2 %} {% endblock somecontent2 %}
{% block somecontent3 %} {% endblock somecontent3 %}
</body>
</html>
```

home.html

```
{% extends 'base.html' %}

{% block title %}
    Home
{% endblock %}

{% block content %}
    Hello I am Home Page
{% endblock content %}
```

about.html

```
{% extends 'base.html' %}

{% block somecontent2 %}
    Hello I am About Page
{% endblock somecontent2 %}
```