

Using dynamic data in templates

Till now we have seen how to add templates and use partial templates, but we have been using hard coded data, lets now see how to use templates dynamically.

Passing data in templates

Data can easily be passed to our templates using a dictionary, we declare a dictionary, i.e a key value pair and pass it as an argument with our 'render' function. This dictionary is commonly referred as 'context'.

E.g, suppose we want to pass the page title to our templates -

```
def home_page(request):  
    return render(request, 'pages/index.html', {'title': 'Home'})
```

We can use this context data in templates by -

```
{% block content %}  
<h1>This is the {{ title }} Page</h1>  
{% endblock content %}
```

Using Context

Suppose we have multiple items in our dictionary, then it makes sense to declare a separate 'context' variable and pass the data to our templates

Suppose we want to pass data for title, username, location & age, then our context data would be -

```
def home_page(request):  
    context = {  
        'title': 'Home',  
        'username': 'Octallium',  
        'location': 'Mumbai',  
        'age': 13  
    }  
    return render(request, 'pages/index.html', context)
```

And we can include the context in templates as -

```
{% block content %}
```

```
<h1>This is the {{ title }} Page</h1>
<p>
  Hi {{ username }}, you stay at {{ location }}, and are {{ age }} years
  old.
</p>

{% endblock content %}
```

Passing data with 'include'

A lot of time we need to work with even smaller templates or snippets, in that case we can create a separate template and pass data to it using the caller template.

E.g, we have our 'home' template and want to display a special 'welcome' message using a partial template, then we can create another template, say we call it 'welcome.html' and **'include'** it into our 'home.html' template.

```
welcome.html
```

```
<p>Welcome, {{ username }}!</p>
```

And then we can update our home template.

```
home.html
```

```
{% block content %}
<h1>This is the {{ title }} Page</h1>
{% include 'pages/_welcome.html' with username=username %} # new

<p>
  Hi {{ username }}, you stay at {{ location }}, and are {{ age }} years
  old.
</p>
{% endblock content %}
```