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for loop – Django Template Tags

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A Django template is a text document or a Python string marked-up using the Django template language. Django being a powerful Batteries included framework provides convenience to rendering data in a template. Django templates not only allow passing data from view to template, but also provides some limited features of a programming such as variables, for loops, comments, extends etc.

This article revolves about how to use **for tag** in Templates. **for tag** loops over each item in an array, making the item available in a context variable.

Syntax

```
{% for i in list %}  
{% endfor %}
```

Example

For example, to display a list of athletes provided in athlete_list:

html

```
<ul>  
{% for athlete in athlete_list %}  
  <li>{{ athlete.name }}</li>  
{% endfor %}  
</ul>
```

for – Django template Tags Explanation

Illustration of How to use for tag in Django templates using an Example.

Consider a project named geeksforgeeks having an app named geeks.

Refer to the following articles to check how to create a project and an app in Django.

- [How to Create a Basic Project using MVT in Django?](#)
- [How to Create an App in Django?](#)

Now create a view through which we will pass the context dictionary,
In `geeks/views.py`,

Python3

```
# import Http Response from django
from django.shortcuts import render

# create a function
def geeks_view(request):
    # create a dictionary
    context = {
        "data" : [1, 2, 3, 4, 5, 6, 7, 8, 9, 10],
    }
    # return response
    return render(request, "geeks.html", context)
```

Create a url path to map to this view. In `geeks/urls.py`,

Python3

```
from django.urls import path

# importing views from views.py
from .views import geeks_view

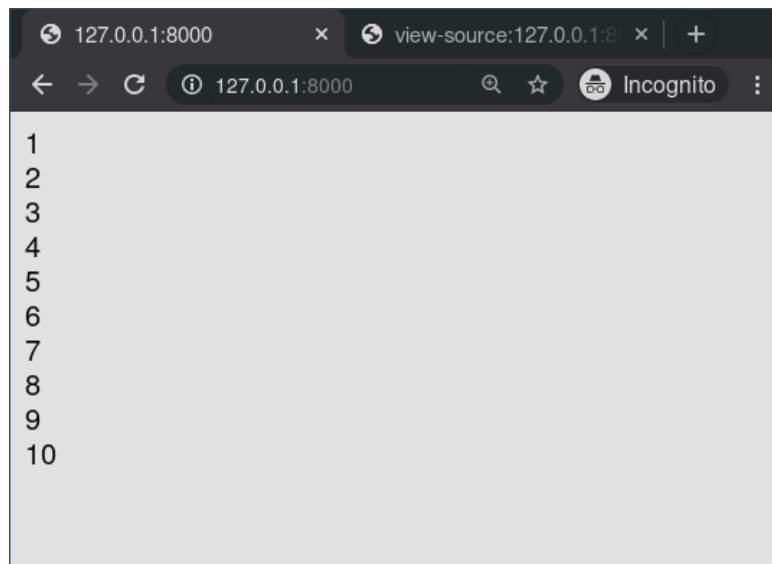
urlpatterns = [
    path('', geeks_view),
]
```

Create a template in `templates/geeks.html`,

html

```
{% for i in data %}
    <div class="row">
        {{ i }}
    </div>
{% endfor %}
```

Let's check what is displayed on “/” are displayed in the template.



Anything enclosed between for tag would be repeated, the number of times the loop is run.

Advanced Usage

One can use variables, too. For example, if you have two template variables, rowvalue1 and rowvalue2, you can alternate between their values like this:

html

```
{% for o in some_list %}
    <tr class="{% cycle rowvalue1 rowvalue2 %}">
        ...
    </tr>
{% endfor %}
```

Advanced Usage

One can loop over a list in reverse by using `{% for obj in list reversed %}`.

If you need to loop over a list of lists, you can unpack the values in each sublist into individual variables. For example, if your context contains a list of (x, y) coordinates called points, you could use the following to output the list of points:

```
{% for x, y in points %}
    There is a point at {{ x }}, {{ y }}
{% endfor %}
```

This can also be useful if you need to access the items in a dictionary. For example, if your context contained a dictionary data, the following would display the keys and values of the dictionary:

```
{% for key, value in data.items %}
    {{ key }}: {{ value }}
{% endfor %}
```

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