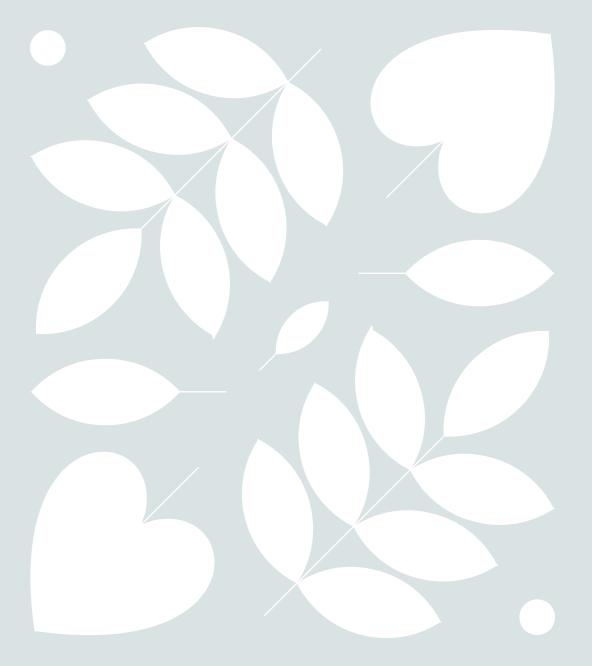
Django App & Template

Zayed contact@zayedabdullah.com

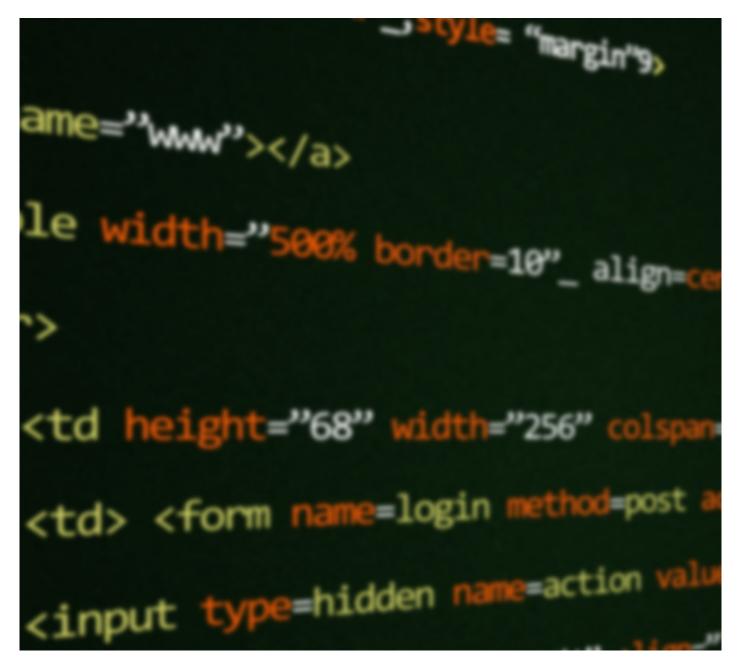


Goal

Continuation from URL

Django Apps

Django Templates



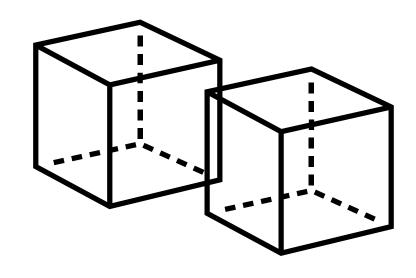
CodeWithVirus



UNDERSTAND THE URL

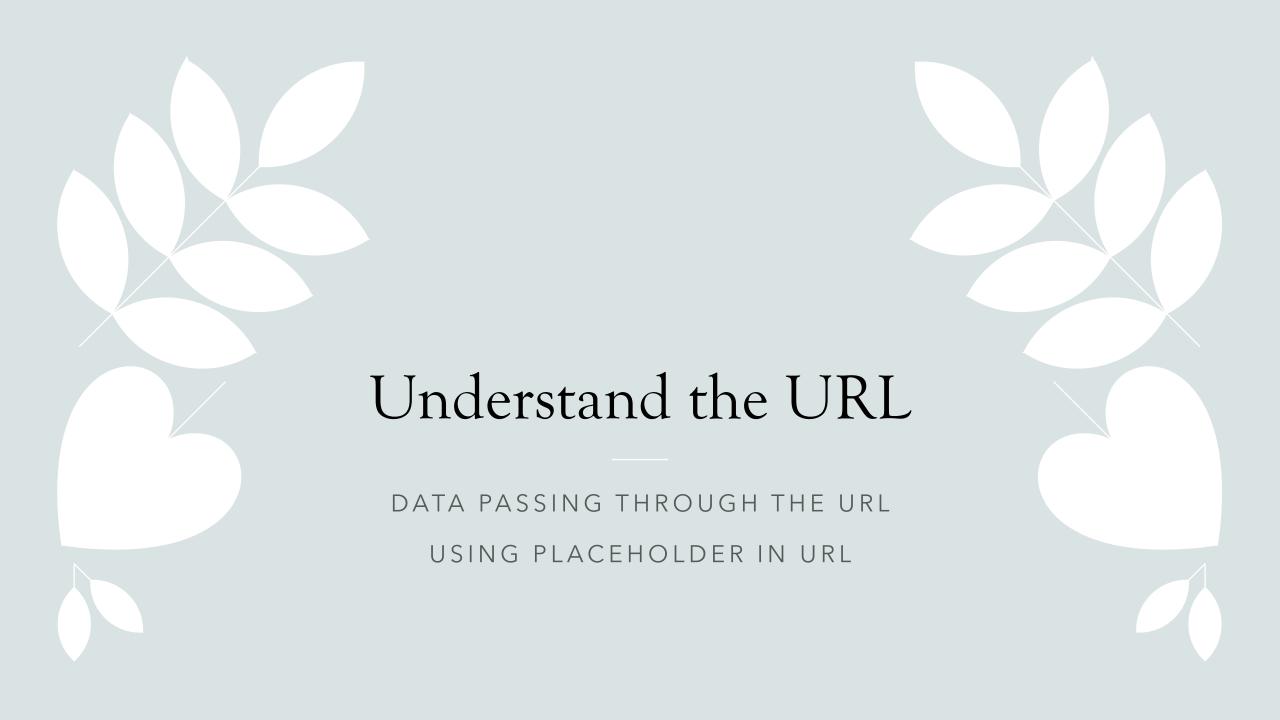
DJANGO VIEW

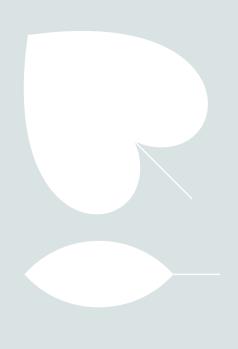
SEPARATE THE PARTS











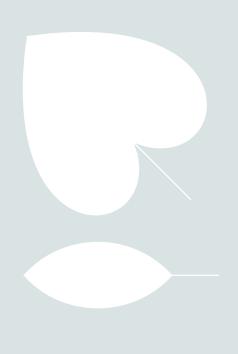
Understand the URL

How can we pass data through URL

Django supports passing data through URLs.

A URL string in a path function can hold **placeholders** to receive data in a "urlpattern" list like:

"/books/<book_id>/authors"



Understand the URL

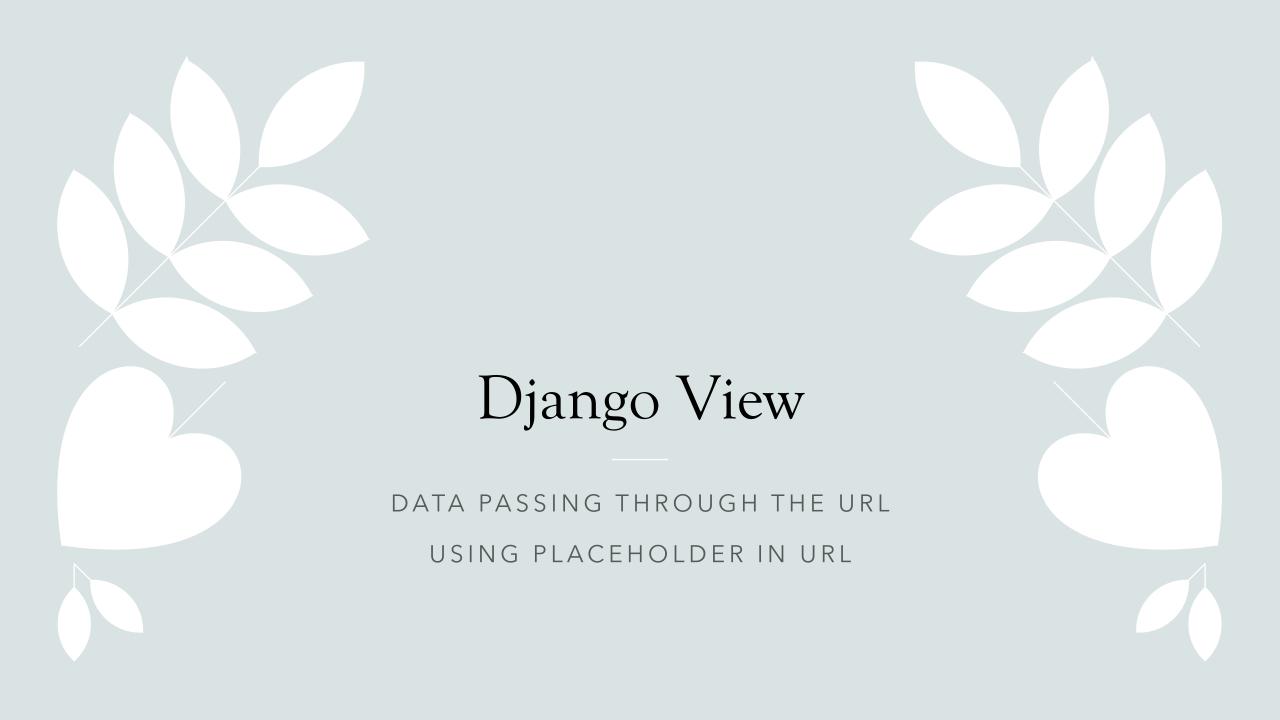
How can we pass data through URL

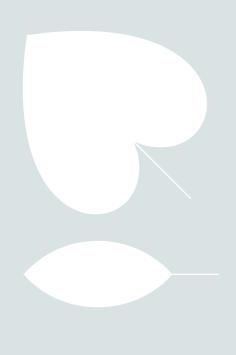
So, the URL path should be like this:

```
path("/books/<book_id>/authors", author_list)
```

That book id is passed in the view function as the book_id variable like this:

```
def author_list(request, book_id):
```





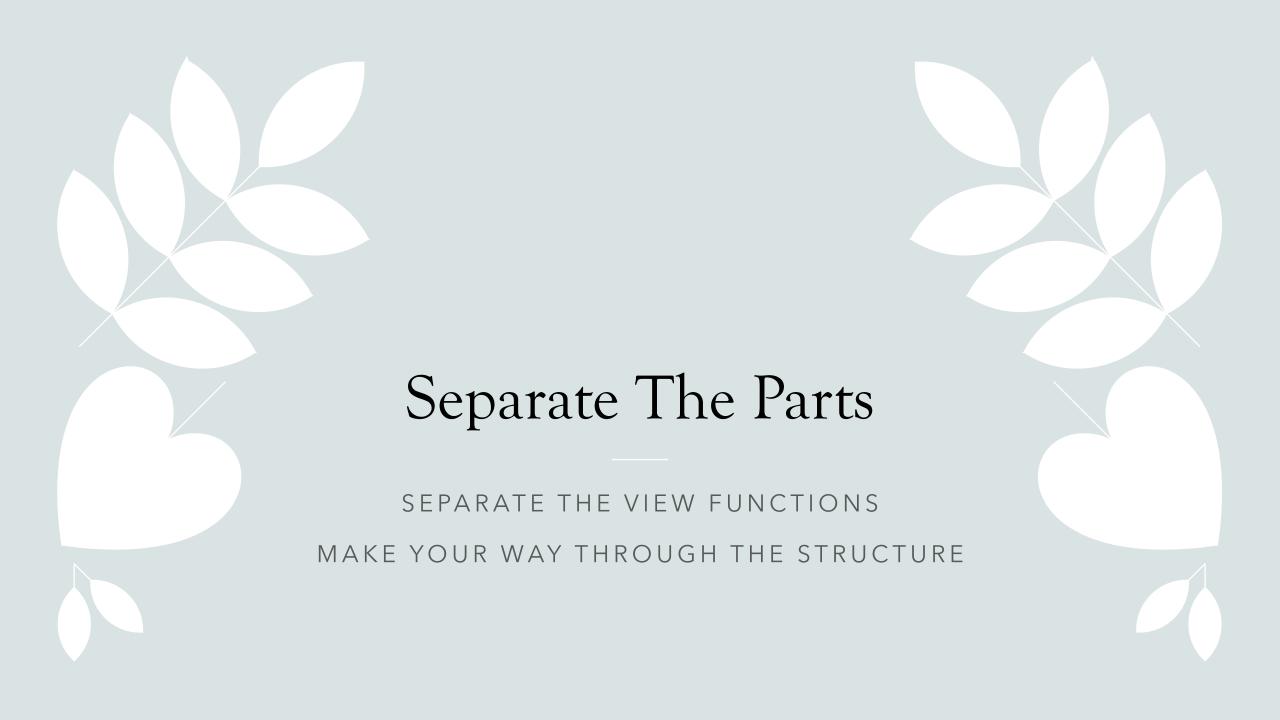
Django View

What & How

The view is simply the **function/class** that handles the **request-response** cycle and where response **logic** is written.



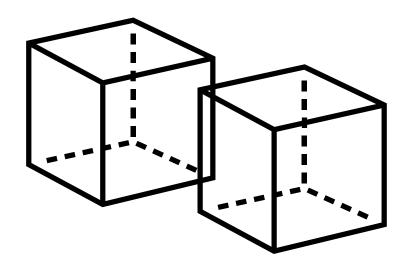
It is generally connected to the path function with the URL path in the "urlpatterns" named list.



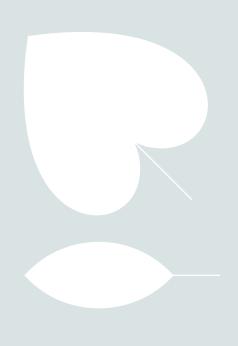
THE DJANGO APP & STRUCTURE

PUTTING THE PARTS WHERE THEY

BELONG

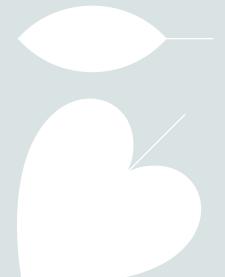






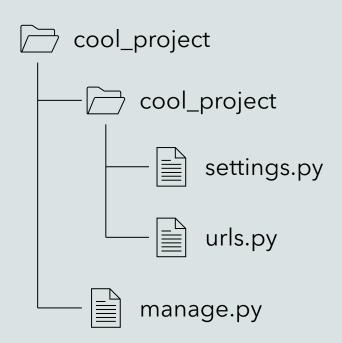
What is a Django App

A Django App is simply a **directory** containing related files for a feature or part of a feature.



You can simply **group** related files for a specific feature or part of a feature in an app. So, your app stays clean and structured.

Create an App



Command:

python manage.py startapp <app_name>

Example:

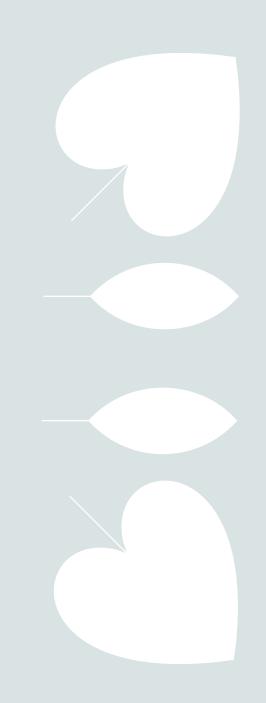
python manage.py startapp cool_app

— cool_app

Install the app into the Settings

```
cool_project
     cool_app
     cool_project
          settings.py
           urls.py
     manage.py
```

```
INSTALLED_APPS= [
....,
....,
"cool_app",
]
```

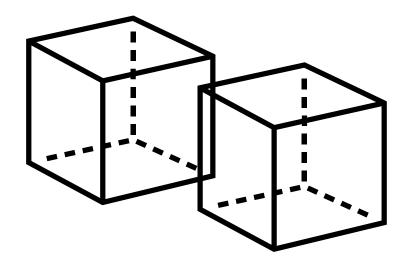


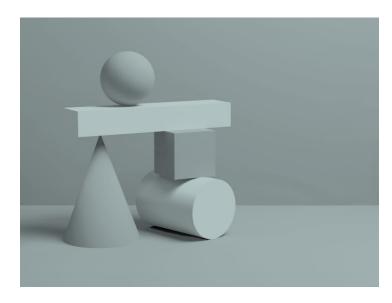


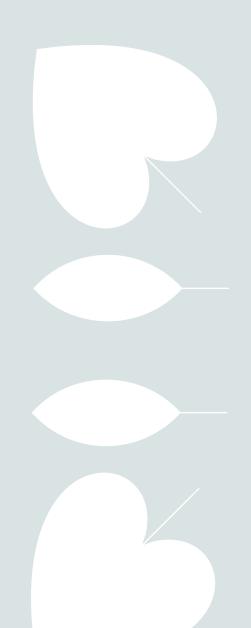
WHAT'S A DJANGO TEMPLATE

HOW TEMPLATE WORKS

RE-USING TEMPLATE



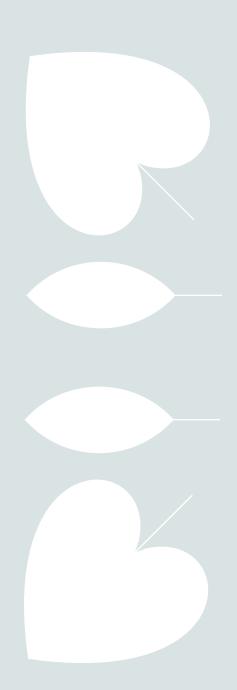




What is a Django Template

A Django Template is simply a **text document** (mostly HTML) containing some **special tags** and **variables** to generate the document with dynamic content.

The Django template is like many common template libraries for Python like jinja2 and others. It supports **extending** a template, **including** a template, using **blocks** to define static or dynamic data into a block, using **static files**, and so on.



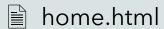
How Templating Works

Just simply passing the **HttpRequest object**, a **template** (mostly HTML) name where the file contains Django Template Tags / Variables and a **context object** in the "**render**" function will generate a HttpResponse with the final output.

Note: Context must be a mapping object (like **Dictionary**).

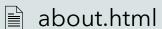
Template Finding Strategy | What we see

home/templates

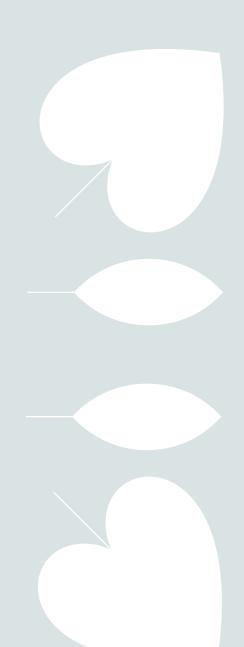


cool_one.html

about/templates



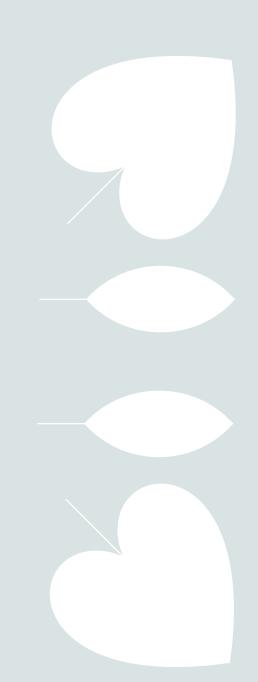
cool_two.html



Template Finding Strategy | What actually happens

Actual templates directory

- home.html
- cool_one.html
- about.html
- cool_two.html







Template Include

Partial Templates

main.html

<body>

<head></head>

header.html

<header>
This is my cool header
</header>

{% include "header.html" %}

<!DOCTYPE html><html>

<main>Main Section/main>

footer.html

<footer>
This is my cool footer
</footer>

{% include "footer.html" %}

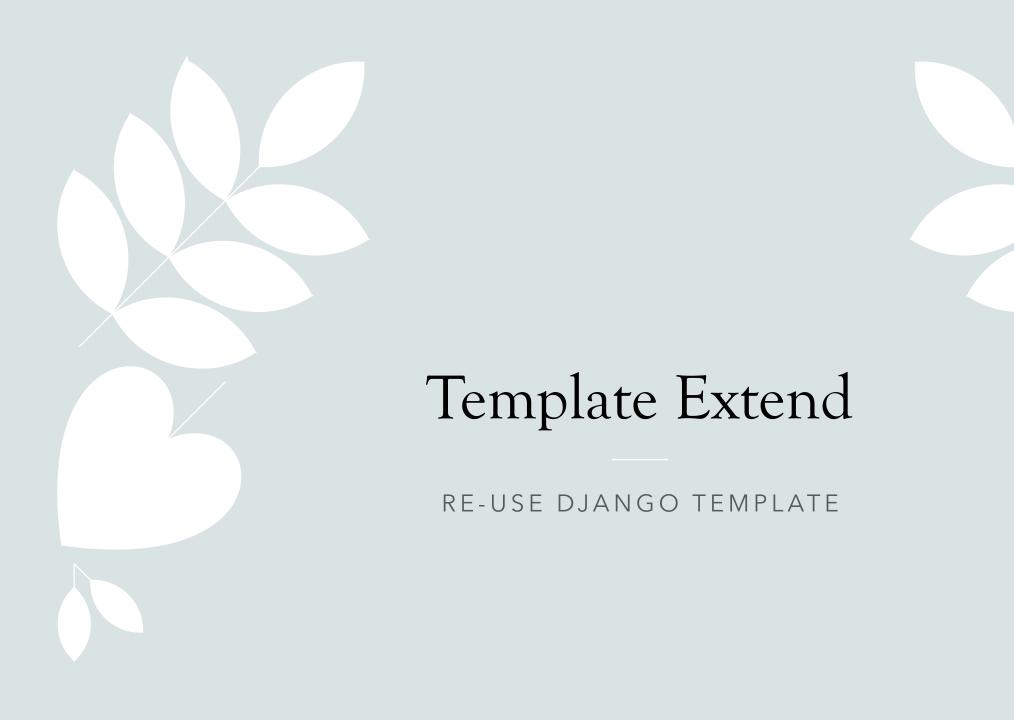
</body>
</html>

Template Include

Merged View

main.html

```
<!DOCTYPE html><html>
<head></head>
<body>
<header>
This is my cool header
</header>
<main>Main Section</main>
<footer>
This is my cool footer
</footer>
</body>
</html>
```



Template Extend

Re-using Django Template

layout.html

```
<!DOCTYPE html><html>
<head></head>
<body>
{% block body_content %}

{% endblock %}

</body>
</html>
```

index.html

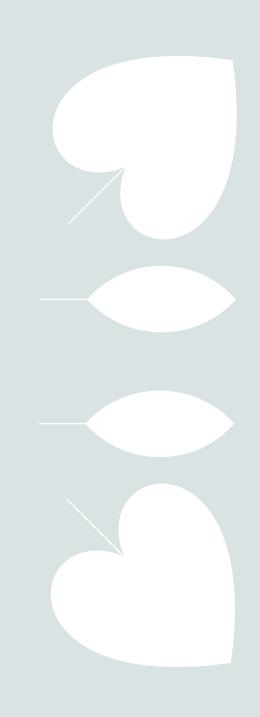
```
{% extends "layout.html" %}
{% block body_content %}
<h1>
  This is my index page
</h1>
{% endblock %}
```

Template Extend

Merged View

index.html

```
<!DOCTYPE html><html>
<head></head>
<body>
<h1>
    This is my index page
</h1>
</body>
</html>
```





What's Next

- Loops in Template
- Condition in Template
- · Static files in Template
- Any who knows what lies ahead...



Thank you

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