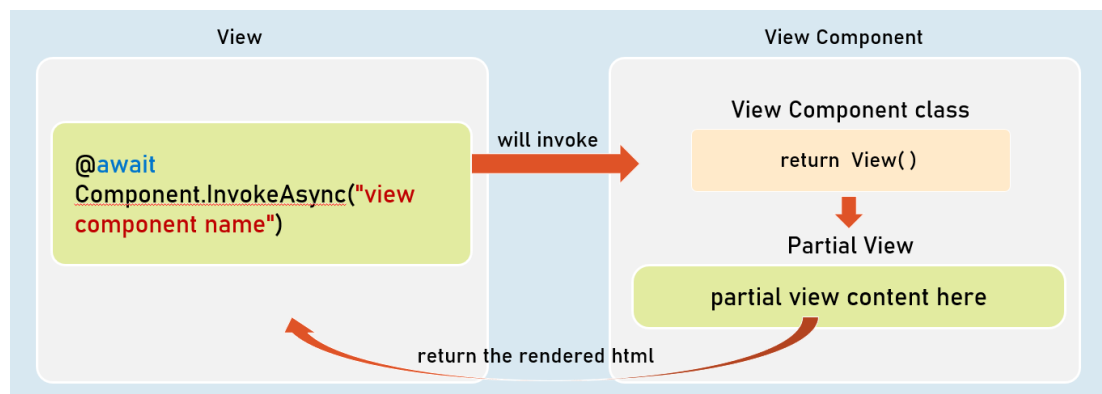# Section Cheat Sheet (PPT)

View Components

> View Component is a combination of a class (derived from Microsoft.AspNetCore.ViewComponent) that supplied data, and a partial view to render that data.
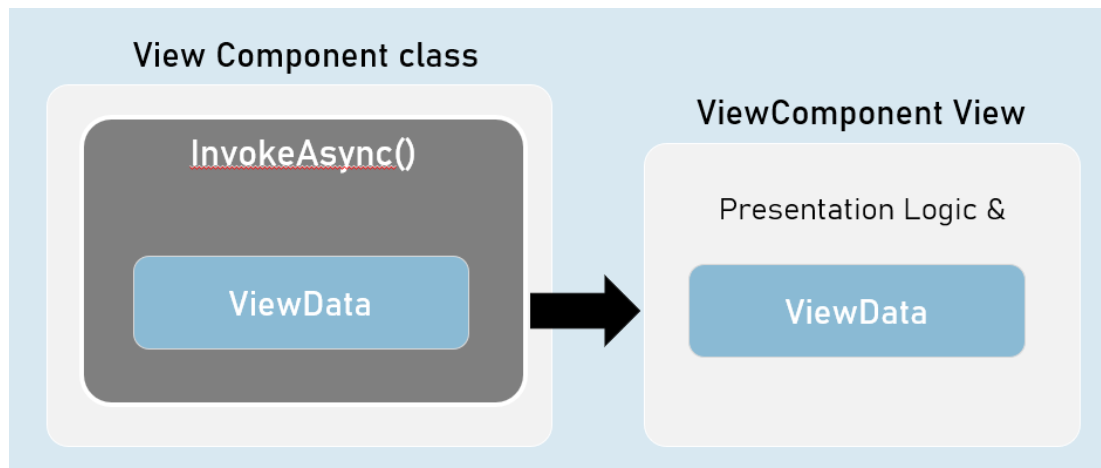

Invoking View Component

```
1   @await Component.InvokeAsync("view component name");
2   --or--
3   <vc:view-component-name />
```

View Components

- View component renders a chunk rather than a whole response.

- Includes the same separation-of-concerns and testability benefits found with a controller and view.

- Should be either suffixed with the word "ViewComponent" or should have [ViewComponent] attribute.

- Optionally, it can inherit from
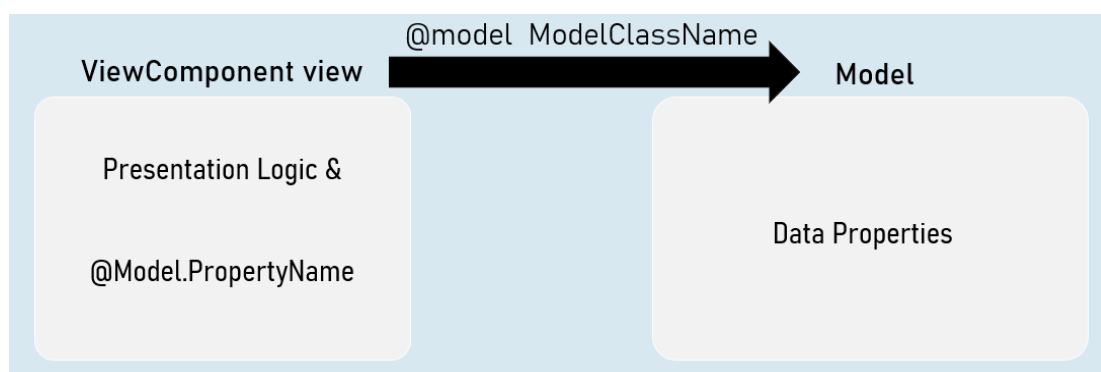
View Components with ViewData

> The ViewComponent class can share ViewData object to the ViewComponent view.

View Component class

InvokeAsync()

ViewData

ViewComponent View

Presentation Logic &

ViewData

Strongly Typed ViewComponent

Strongly Typed ViewComponent's view is tightly bound to a specified model class.

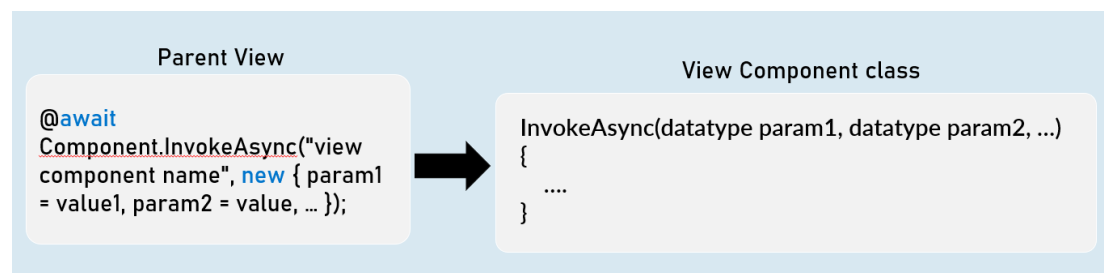So, it gets all the benefits of a strongly typed view.

@model ModelClassName

ViewComponent view

Model

Presentation Logic &

@Model.PropertyName

Data Properties

ViewComponents with Parameters

You can supply one or more parameters to the view component class.

The parameters are received by InvokeAsync method of the view component class.

All the parameters of view component are mandatory (must supply a value).

Invoking ViewComponent with parameters

```
@await Component.InvokeAsync("view component name", new {
param = value });
```
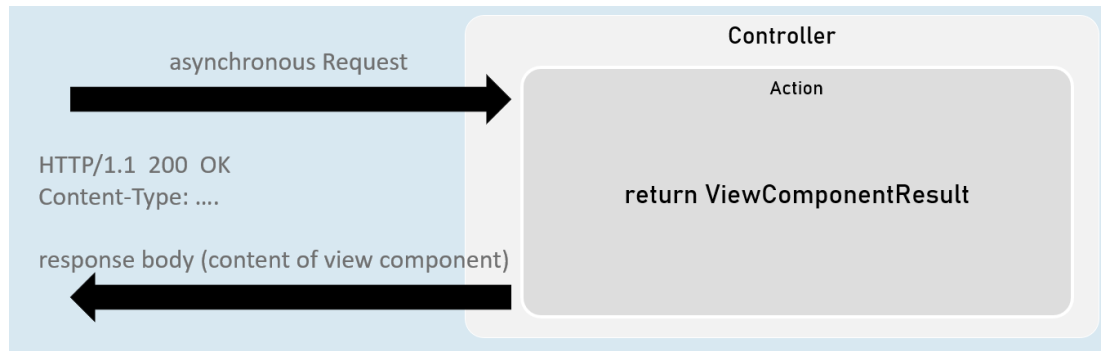
-- or --

```
<vc:view-component-name param="value" />
```

ViewComponentResult

ViewComponent can represent the content of a view component .

Generally useful to fetch view component's content into the browser, by making an asynchronous request (XMLHttpRequest / fetch request) from the browser.

```
1   return new ViewComponentResult() { ViewName = "view component name",
    Arguments = new { param1 = value, param2 = value } };
2   [or]
3   return ViewComponent("view component name", new { param1 = value, param2
    = value } });
```