

Nancy Views and View Engines

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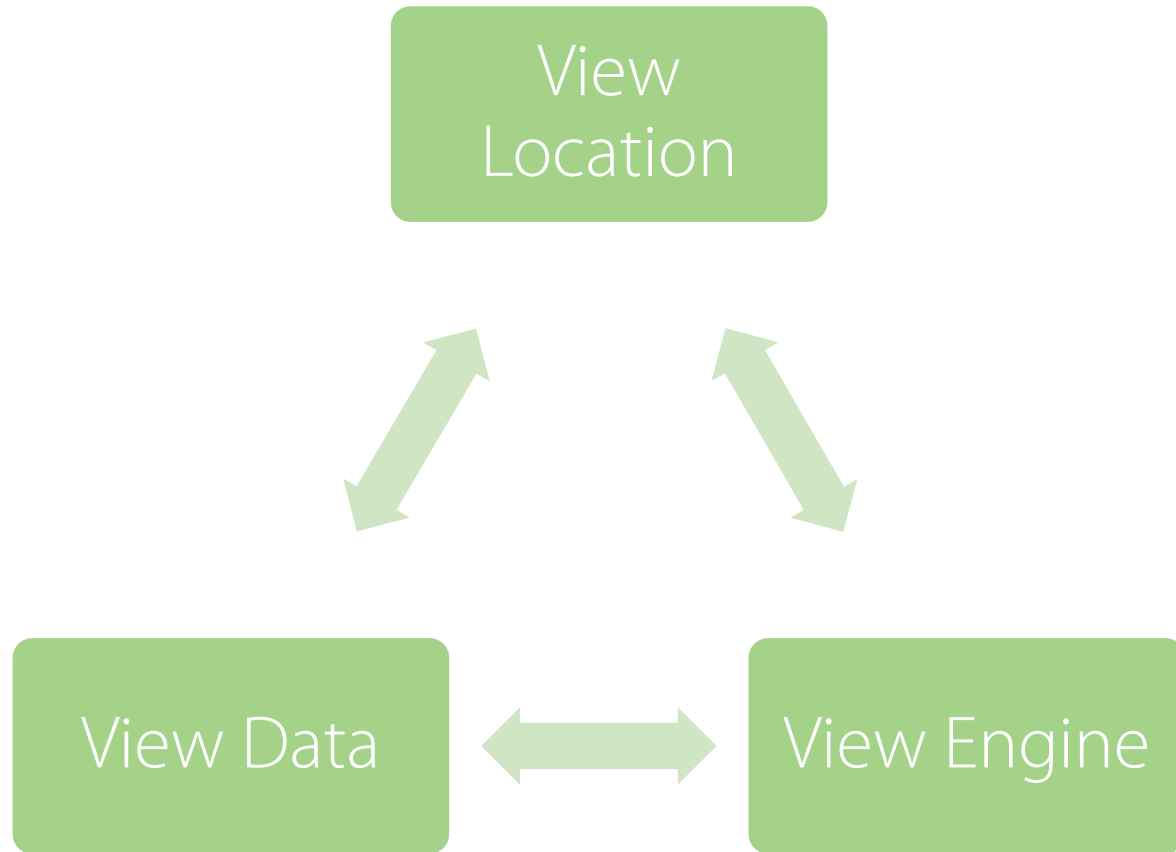
<http://codeprogression.com>



Views and View Engines

- **Recap**
 - Static view
 - Pure data
- **For user-facing web applications, we need:**
 - Dynamic views
 - Contextual data
 - Templated output

Views and View Engines



View Location

- **Styles of handling view-data-engine interactions**
 - Tightly-coupled – ASP.NET WebForms
 - The view and code are tightly bound
 - Layered architecture is more difficult
 - One default view engine

View Location

- **Styles of handling view-data-engine interactions**
 - Prescribed convention – ASP.NET MVC
 - Views mirror the code
 - By default, a view location is derived from the controller/action couplet
 - Overrides are possible
 - In the routing tables
 - In the individual actions
 - Data passed via:
 - Strongly-typed object
 - Bag/dictionary object
 - Multiple view engines built in
 - Razor
 - Web Forms

View Location

- **Styles of handling view-data-engine interactions**
 - Multiple conventions – Nancy
 - Separation of logic and presentation
 - Flexible file system structure
 - Flexible view engine conventions
 - Pass data via:
 - Object
 - Bag/dictionary

View Location

- **Built-in conventions:**

- The Root Convention
- The View Folder Convention
- The Views and Module Path Convention
- The Module Path Convention
- The Module Name Convention
- The Views and Module Name Convention
- Your Convention Here

- **For more information on the default conventions:**

- <https://github.com/NancyFx/Nancy/wiki/View%20location%20conventions>

Demo: View Location

Requirements:

- Revisit the Root Convention as we applied it in the first module
- Move the view to a Views folder (the View Folder Convention)
- Use the Views and Module Name Convention
- Create our own convention

View Data and Engines

```
// Finds the view by name only
View["index"]

// Finds the view by name and extension
View["index.cshtml"]

// Finds the view by name and passes in the model data
View["index", productsModel]

// Passes in the model data
// Finds the view by using the model's type name
// Removes "Model" from the type name if it exists
// If products type is ProductModel,
//   name will resolve to 'product'
View[products]
```

View Data and Engines

- **The Super Simple View Engine**

- Default view engine
- Similar to Razor
- <https://github.com/grumpydev/SuperSimpleViewEngine>
- Limitations:
 - Does not support nested collections

Demo: The Super Simple View Engine

Requirements:

- Display a list of courses using the Super Simple View Engine
- Use a specific view name

View Data and Engines

- **Using the Razor View Engine**

- Same as the default view engine from ASP.NET MVC 3
- Available as Nuget package
- Build project immediately after installing package
 - Intellisense
 - Web.config references

- **Can use multiple view engines**

- May need to specify file extension explicitly

Demo: The Razor View Engine

Requirements:

- Display a single course using the Razor View Engine
- Use the model as the view name

Summary

- **How Nancy locates views**
- **How to specify which view to retrieve**
 - View name
 - Model
 - Both
- **View Engines**
 - Super Simple View Engine
 - Razor View Engine
 - DotLiquid
 - NDjango
 - Nustache
 - Spark