THE AURELIA 2 BOOK

Learn how to master the Aurelia 2 Javascript framework.

BY DWAYNE CHARRINGTON

The Aurelia 2 Book

Dwayne Charrington

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The Fundamentals of Aurelia

Before we journey into Aurelia land and start building things, we need to talk about a few basic fundamentals that are key to almost every Aurelia application you will write. The theory before the practical so-to-speak.

The key things you need to understand are just basic modern Javascript and HTML. However, much like any other framework or library there are conventions that you need to learn, most around syntax and lifecycle.

The first thing you need to be aware of is Aurelia works on the premise of both views and view-models. If you come from a MVVM/MVC/MVwhatever background, then you will already be familiar with the concept of a view and view-model.

Most of what you end up doing in Aurelia will at the very least in most cases consist of a view-model (a Javascript class). Sometimes you might have a view, sometimes you might only have a view and no view-model. There are no strict rules how things must be done, but there are certain constraints in how you do things, for your own sanity mostly.

Structure is important, so Aurelia's modular component-first approach is something you will really enjoy if you come from a framework or library that has no structure or promotes a really convoluted way of working.

Terminology

Throughout the book you will see terms such as; view, view-model, dependency injection and more. This section aims to explain what these terms are in a broad overview.

Later on in further chapters, you will learn more in greater detail about each of these concepts.

View
: A view is a HTML template, nothing else needed. By default custom elements and routed components unless otherwise configured are assumed by Aurelia to have an accompanying view.

View-model
: Most of what you do in building an Aurelia application, I would say about 95% is based on the premise of view-model classes.

Dependency Injection
: This is what underpins Aurelia as a whole. Whenever you import, inject and export something, behind the scenes Aurelia has a dependency injection container which is responsible for ensuring things are imported where and how they should be. You will learn about dependency injection later on.

Custom Attribute
: A custom attribute is comprised of a view-model Javascript class which allows you to decorate existing elements (including custom elements). A custom attribute does not have an associated view.

Custom Element
: Pretty similar to a custom attribute, a custom element is comprised of a view-model Javascript class and unless otherwise configured, a matching view template of the same filename with a `.html` file extension.

The component life-cycle

In Aurelia each component goes through an event life-cycle where a series of callback functions are called at different times depending what is happening. This applies to not only Aurelia's internal classes, but any component that you create such as a custom element or even just a generic view-model goes through this process.

`constructor(...injectables)`
: The class constructor for your view-model. This is where you tell your view-model about any injected dependencies. The injected dependencies are parameters on your constructor function. Technically this is not an Aurelia method, a constructor is a native method for every class.

`created`
: This method is called immediately after both the view and view-model has been created. We get access to the controller, the parent container, the component definition and the component parts.

`binding`
: This method if defined is called after your component bindable properties have been assigned. You can return a promise from this method to load data or anything else you might need inside of your components.

`attaching`
: This is a lifecycle method that is called when the HTML has been attached. This is where you can initialize 3rd party libraries.

`attached`
: This method will be called when the current component and its children have been attached. If you need to work with the DOM, this is where you would run your code. For example, jQuery or any other library that requires interacting with the HTML itself.

`detaching`
: This is where you will destroy any 3rd party libraries you have instantiated and cleared up anything you have created.

Really when it comes down to a real world application, you will find yourself working with only a few of the above mentioned callback life-cycle hook methods. However, it is convenient to know when each function is called and what order they are called in.

```
export class MyComponent {
        attached() {
                // Use third-party libraries that touch the dom, etc
        }
}
```

The lifecycle methods you will use the most are a fraction of the ones mentioned above. The majority of the time, you will want to load data into your views/components and work with 3rd part libraries such as jQuery that interact with the DOM. You will not need to use most of the lifecycle methods



Worth mentioning...

Each of the above callbacks is optional. If you do not define one or more of these, your application will work as intended. Only implement what meets your needs, but don't feel like you have to have them.

In the chapter on routing, you will also learn about the screen activation life-cycle which works similarly to the component life-cycle, however only strictly applies to view-models instantiated by the router.

Conventions

By default Aurelia makes some assumptions about how things should work, unless you tell it otherwise. These conventions allow you to write code with out needing to configure anything upfront.

Some developers are not a fan of magic in frameworks and rather explicitly defining everything upfront, which is why Aurelia gives you the choice of both. While component libraries like Vue also technically have conventions, you need to implement a lot more out-of-the-box than you do in Aurelia.

In my experience working with Aurelia, the conventions are usually what you want. Only specific use-cases have required changing some aspect of one or more of Aurelia's default conventions.

View-model/View Pairs

In many cases, Aurelia makes the assumption when you have a view-model, you also have a view of the same name, just with a `.html` file extension. The situations in which Aurelia assumes you have a matching view are:

- Routed view-models: When defining a route that points to a view-model, by default Aurelia will also expect a view file of the same name. If you route to `src/welcome.js`, Aurelia will look for a file `src/welcome.html` in the same location as the view-model.

- Custom elements: When creating a custom element, it is assumed just like routed view-models, a view template of the same name and `.html` extension exists.
- Dynamic composition with `<compose>`: When dynamically composing a view-model, if you do not specify a view and the view-model being composed does not specify a particular view or no view at all, a matching `.html` file will attempt to be loaded.

In the instance you don't want a view (perhaps you're dynamically composing), you can actually forgo the HTML view and Aurelia will assume you don't have a view by default.

Stylesheets

By default, Aurelia will automatically include any stylesheet with the same name as a view-model. If you have a file called `my-viewmodel.ts` and you create a stylesheet called `my-viewmodel.css` it will automatically be imported and associated with your view and view-model. It saves the time needing to import the stylesheet.

Explicitly creating components

While Aurelia's standard conventions for components will fit most use cases, sometimes you might want to specify a different template or change the element name instead of using the file name. The `@customElement` decorator comes into the fray here.

```
1  import { customElement } from 'aurelia';
2  import template from './my-template.html';
3
4  @customElement({
5    name: 'my-cool-component',
6    template
7  })
8  export class MyComponent {
9
10 }
```

This allows you to change the tag name of your custom element or you can choose a completely different template (even load a non .html file extension). The decorator allows you to control how custom elements are created, side-stepping conventions.



About conventions

Conventions not only reduce boilerplate, they mitigate the chance of errors by implementing things yourself. Only bypass Aurelia's conventions when one of the default optioons does not work for you. Using conventions will also result in less maintenance as you let the framework do the heavy lifting and it's less to worry about in the long-run.

Interfaces

Throughout this book, we will be using TypeScript for all code examples. If you are new to TypeScript or even somewhat experienced, you might notice the use of interfaces in our code examples `ICustomElementViewModel` and so on.

So there is no confusion about these, let's quickly run through why we have these and why I recommend using them. These interfaces provide typing information to TypeScript, which gives you type safety inside your code editor and autocompletion.

`ICustomElementViewModel` : For custom elements that will not be loaded by the router, this interface will give you lifecycles and other things about custom elements.

`IRouteViewModel` : For components that will be loaded by the router, this interface will provide you with component and router lifecycle hooks as well as other information.

Summary

In this chapter we learned about the lifecycle of Aurelia components. We also learned how you can bypass Aurelia conventions to change where views are loaded from, forgoing views entirely, how stylesheets are loaded and the various terms used in Aurelia.

- When working with plugins and libraries that touch the dom, use `attached`
- Cleaning up anything bound to the dom, use `detaching` to destroy any plugins or anything else
- Components do not have to have view templates, they do by default but you can simply not create a HTML view and it won't have a view
- Stylesheets with the same name as your components will automatically be included
- All conventions can be overridden, including how custom elements are created (the tag name, where the view loads from)

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Call a function and display the result

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Adding Search To Our Application

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Adding in the admin link

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Conclusion

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