

A stylized, low-angle view of a city skyline with various skyscrapers. The image is heavily stylized with a color palette of deep blues, purples, and pinks. Overlaid on the upper part of the image are several semi-transparent, geometric shapes in shades of pink and purple, resembling a stylized sun or a cluster of buildings. The text 'Enterprise Aurelia 2' is prominently displayed at the bottom in a bold, white, sans-serif font.

Enterprise Aurelia 2

Enterprise Aurelia 2

Working with Aurelia 2 in the enterprise.

Dwayne Charrington

This book is for sale at <http://leanpub.com/enterprise-aurelia>

This version was published on 2022-09-27



This is a [Leanpub](#) book. Leanpub empowers authors and publishers with the Lean Publishing process. [Lean Publishing](#) is the act of publishing an in-progress ebook using lightweight tools and many iterations to get reader feedback, pivot until you have the right book and build traction once you do.

© 2022 Dwayne Charrington

Contents

Introduction	1
What Is Aurelia?	1
About The Book	1
A letter to your manager/boss	2
It's all about the structure	3
Build a map	3
Outlining the main pieces	3
Mapping relationships	3
Aurelia and Monorepos	4
What is a monorepo?	4
Setting up a monorepo with Aurelia	4
Setting up tests using Jest	4

Introduction

Thank you for purchasing, sharing or pirating the Enterprise Aurelia Book. If you're wanting to use Aurelia 2 in an enterprise environment, then you have found the right book. If you are looking for recipes, then I am sorry to tell you that you won't find any recipes here (although, send me an email and I'll gladly share a favourite recipe with you).

What Is Aurelia?

Aurelia is a modern standards-compliant Javascript framework for building ambitious and straightforward applications. Unlike other frameworks and libraries, Aurelia is modular and can be adapted for each use-case, you won't find any monoliths here. As a framework, Aurelia abides by the mantra of not reinventing the wheel, opting to base features and decisions on real standards created by working groups such as W3C and WHATWG.

Although Aurelia is a framework, it is effortless to learn thanks to its convention-over-configuration approach. It makes some out-of-the-box assumptions about how your applications function, and in many instances, you will keep those defaults. It plays nicely with every third-party library, thanks in part to not having any proprietary DOM implementation and not requiring special bridge libraries.

By deciding to purchase this book, you probably knew all of that already.

About The Book

The term enterprise gets thrown around a lot, so what does Enterprise Aurelia even mean? Enterprise applications are more often than not monolithic and highly complex, with many moving parts. Furthermore, enterprise applications because of their sheer complexity are usually maintained over more extended periods.

We have all heard the jokes that companies will inevitably find themselves rewriting their application in that framework every time a new Javascript framework comes out. Sadly, it's not a joke. I have seen first-hand companies who rewrite their applications every two years and, if you can afford that, then your company must have a licence to print money. Good for them.

Without throwing shade on other choices, this is where Aurelia breaks away from the sea of other frameworks and libraries. Aurelia is a batteries-included framework that gives you everything you need, offering additional packages for other features; routing, validation, data requests, testing, separation of concerns.

In this book, the recurring themes will be:

- Longevity
- Maintainability
- Practicality
- Simplicity
- Testability

You will learn how to structure your Aurelia 2 applications, where things should live, simple conventions for naming and structuring, how to keep your apps up to date and how to test them. Furthermore, you will also learn different patterns which will help you build Aurelia applications and scale development to different sized teams.

Enterprise Aurelia is the answer to the question: How can I build enterprise web applications with Aurelia 2?

A letter to your manager/boss

It would be naive to ignore the fact Aurelia can be a hard sell for some. Why not React, why not Angular, why not Svelte or Ember? While Aurelia isn't a bad option or a new one (Aurelia has been around since January 2015), Aurelia has always flown under the radar in the face of other frameworks.

Which is why I have included this section with an email template you can send to your manager or boss to consider Aurelia for your next build.

Dear Manager,

I am emailing about our next project, and I think we should consider Aurelia for this project. There is a good chance you have never heard about Aurelia before, or if you have, the older version one.

Based on all of the features we will need in this project, Aurelia 2 should be considered. While there are many other more popular choices, I think you will agree that the requirements of the project come first, not following trends or wasting tens of hours fitting a square peg into a round hole.

Unlike other choices, Aurelia is a standards-based Javascript framework that is similar to Angular, but not as verbose. It has a small learning curve, but is just as powerful as everything else out there on the market.

I think it would be worth creating a prototype and getting the opinion of others on the team before making any decisions.

It's all about the structure

This content is not available in the sample book. The book can be purchased on Leanpub at <http://leanpub.com/enterprise-aurelia>

Build a map

This content is not available in the sample book. The book can be purchased on Leanpub at <http://leanpub.com/enterprise-aurelia>

A map is made up of the following rules:

This content is not available in the sample book. The book can be purchased on Leanpub at <http://leanpub.com/enterprise-aurelia>

Outlining the main pieces

This content is not available in the sample book. The book can be purchased on Leanpub at <http://leanpub.com/enterprise-aurelia>

Mapping relationships

This content is not available in the sample book. The book can be purchased on Leanpub at <http://leanpub.com/enterprise-aurelia>

Aurelia and Monorepos

This content is not available in the sample book. The book can be purchased on Leanpub at <http://leanpub.com/enterprise-aurelia>

What is a monorepo?

This content is not available in the sample book. The book can be purchased on Leanpub at <http://leanpub.com/enterprise-aurelia>

Setting up a monorepo with Aurelia

This content is not available in the sample book. The book can be purchased on Leanpub at <http://leanpub.com/enterprise-aurelia>

Monorepo basics

This content is not available in the sample book. The book can be purchased on Leanpub at <http://leanpub.com/enterprise-aurelia>

Tell NPM about our workspace

This content is not available in the sample book. The book can be purchased on Leanpub at <http://leanpub.com/enterprise-aurelia>

Create a top level tsconfig file

This content is not available in the sample book. The book can be purchased on Leanpub at <http://leanpub.com/enterprise-aurelia>

Create a package

This content is not available in the sample book. The book can be purchased on Leanpub at <http://leanpub.com/enterprise-aurelia>

Setting up tests using Jest

This content is not available in the sample book. The book can be purchased on Leanpub at <http://leanpub.com/enterprise-aurelia>