

Develop Websites and Components in AEM

INTRODUCTION AND ARCHITECTURE OVERVIEW



Tyler Maynard

AEM DEVELOPER

@TylersDesk www.tylermaynard.com



Course Overview



Architecture Overview

Developer Tools

Content Rendering

Templates

Introduction to HTL

Inheritance

Developing Structure Components





**Understand AEM rendering and how to
build components and websites**



Course Prerequisites

AEM Installed & Basic Authoring Skills
Foundational knowledge of HTML, CSS and JavaScript



Request for Comments



Pluralsight discussions



Be successful

Architecture Overview



Architecture Overview



Basics of the architecture stack

Introduction to Granite

Introduction to the JCR

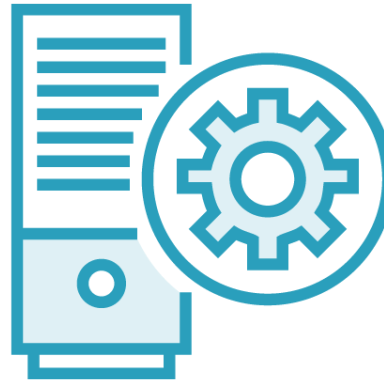
Introduction to Apache Sling



Infrastructure of AEM



**Web application
server**

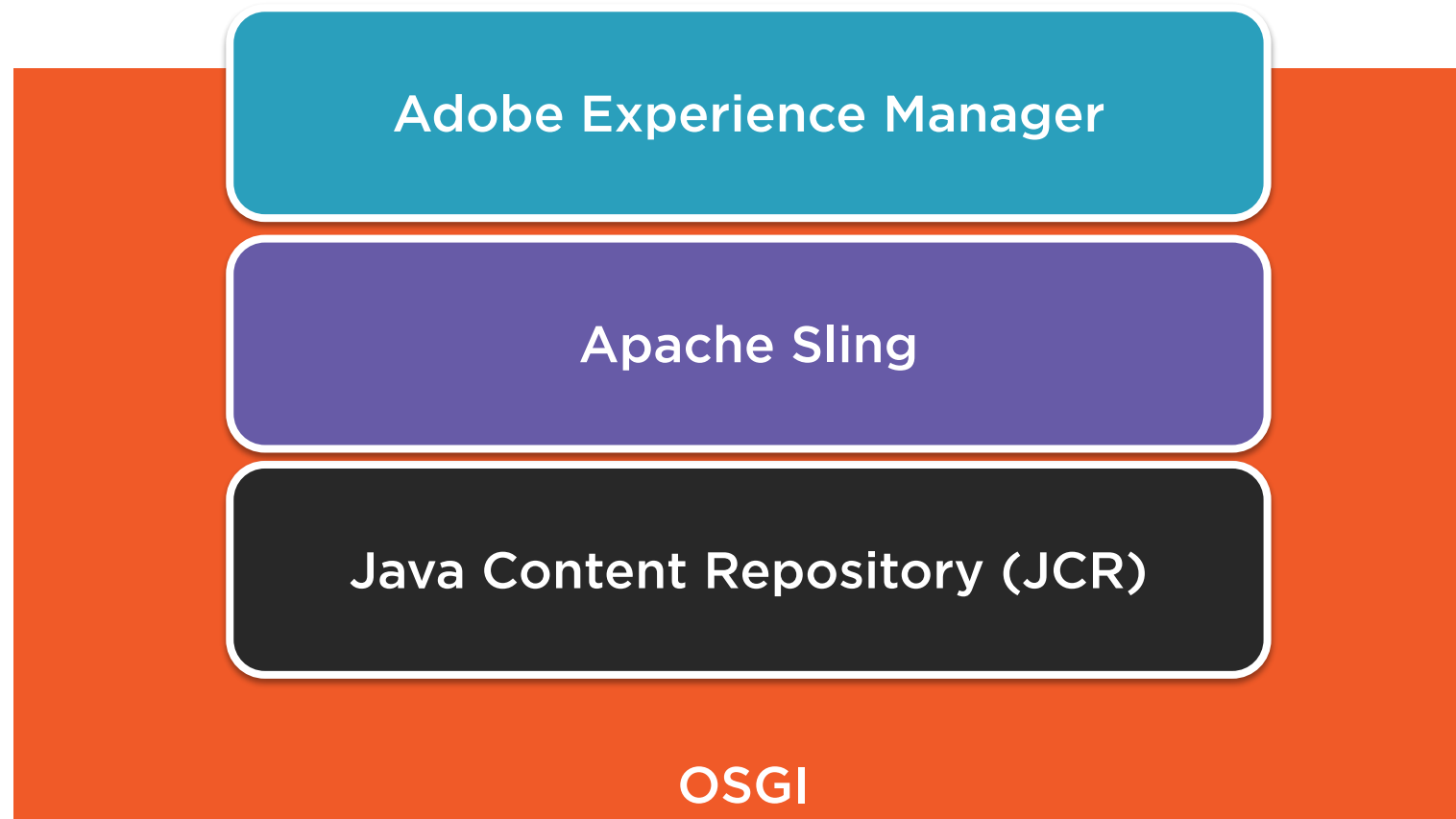


**Web application
framework**



Content repository

High Level Architecture Stack



Introduction to Granite



Granite Functionality

Application launcher

OSGi framework

OSGi compendium services for building applications

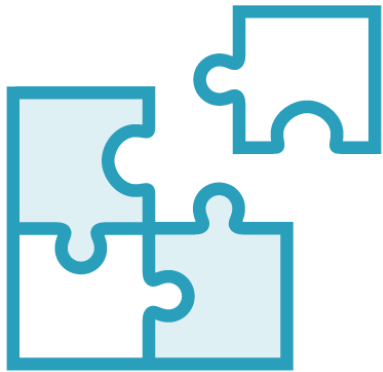
Logging framework for various APIs

JCR API

Apache Sling web framework



OSGi Framework



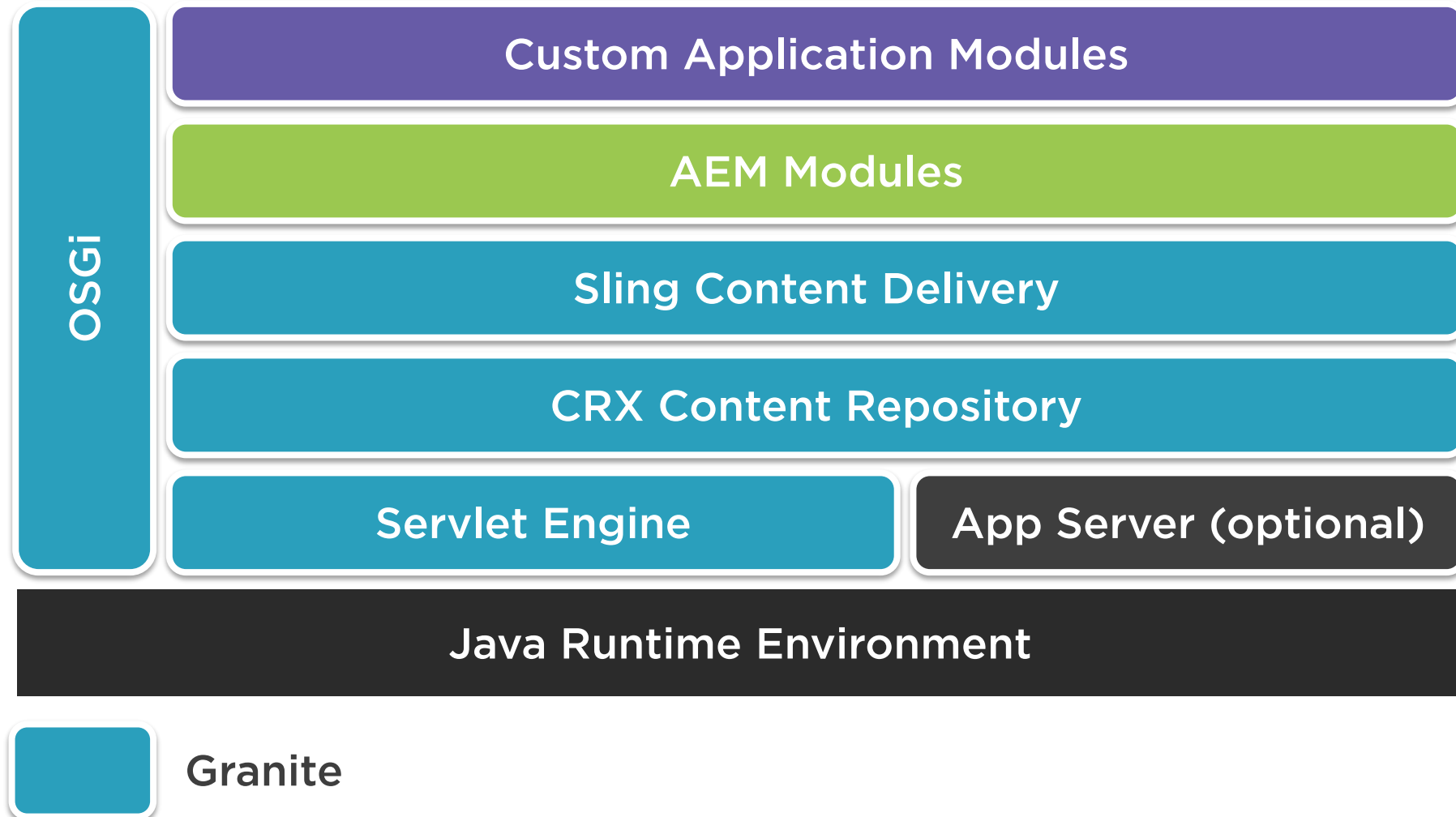
Bundles



Apache Felix



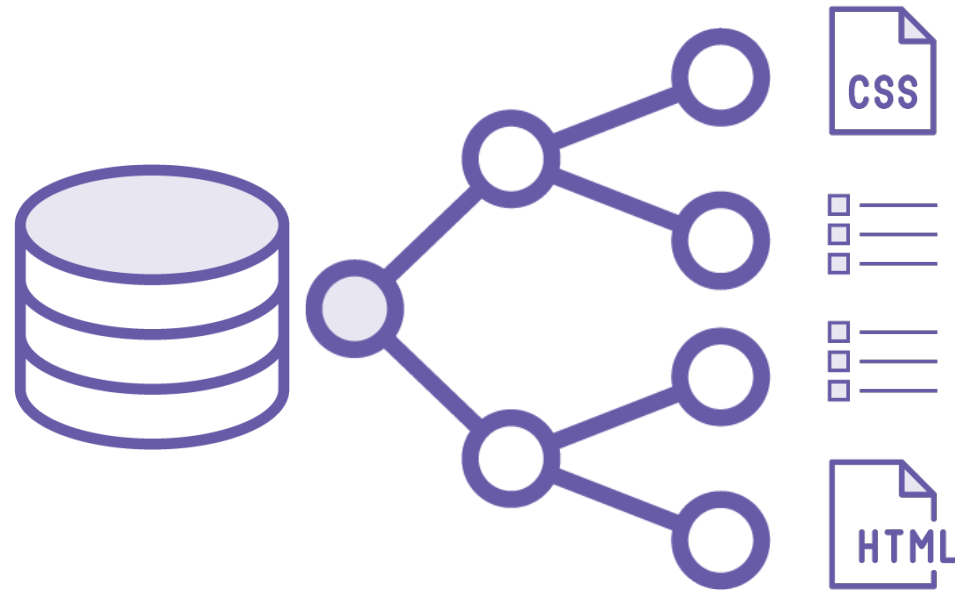
Granite Overview



The JCR and Apache Sling



Java Content Repository (JCR)



Advantages of using JCR

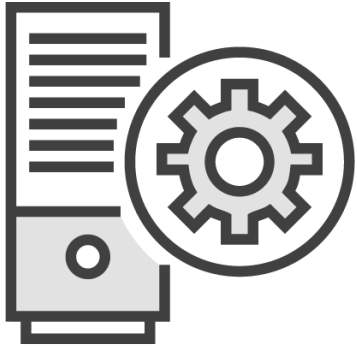


**Best of both file system and
database storage architectures**



JCR supports namespaces

Apache Sling



Web application
framework



JCR

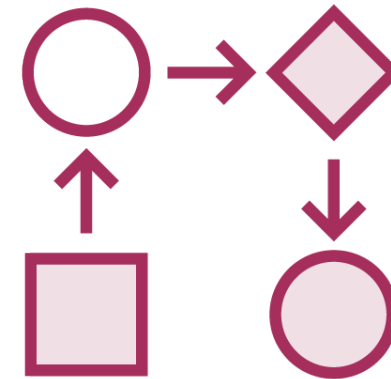


Representational State
Transfer (REST)

Everything is a Resource



URI maps to a JCR node (resource)



Resources are rendered through rendering scripts

Summary



Building blocks of the AEM stack

Granite

**Java Content Repository (JCR)
and Apache Sling**

