

Practical IoC With MVC 4

Introduction

John Sonmez
<http://simpleprogrammer.com>
@jsonmez



pluralsight 
hardcore developer training

Who This Course Is For

- ASP.NET MVC developers wanting to use IoC
- Anyone wanting to see a practical use of IoC containers

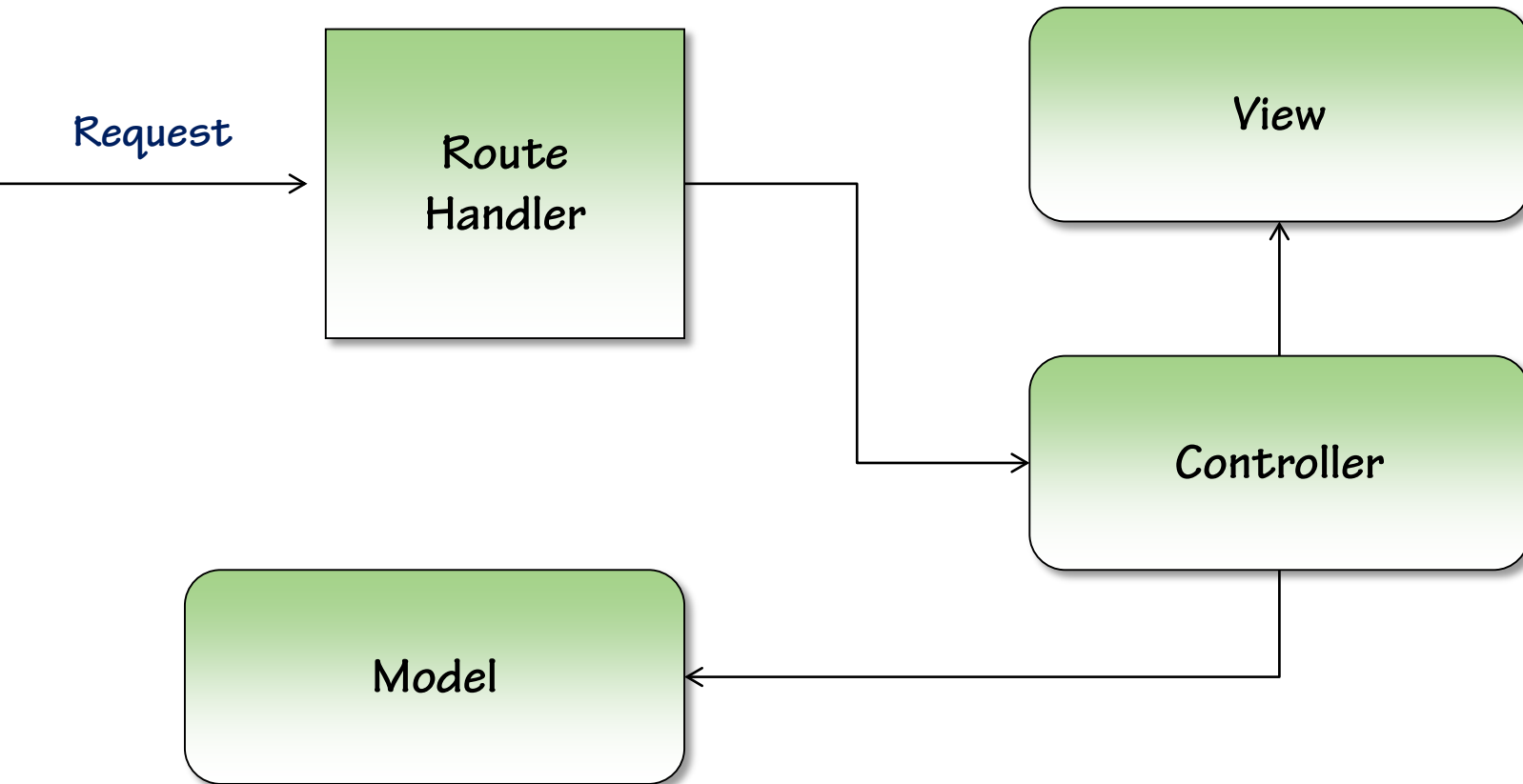


What This Course Covers

- **Module 1: Introduction**
 - ASP.NET MVC basics / architecture
 - IoC basics
- **Module 2: Doing It Yourself**
 - Manually doing dependency injection in MVC
- **Module 3: Injecting With Unity**
 - How to use the Unity IoC container in MVC
- **Module 4: Advanced Injection**
 - View Injection
 - Filter Injection
- **Module 5: Using Other IoC Containers**
 - Using non-Unity containers in MVC

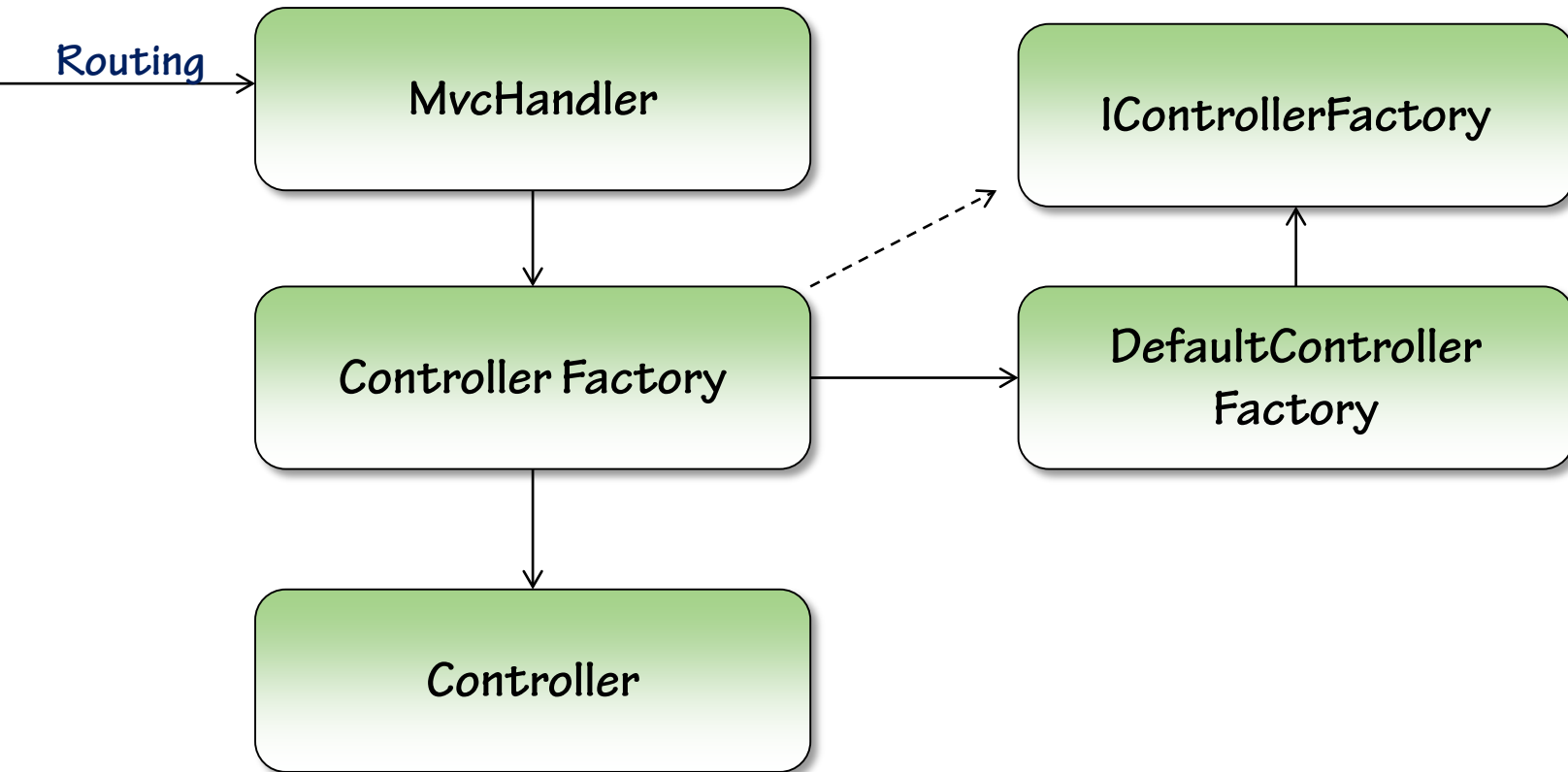
Here is the road we are taking to using IoC with ASP.NET MVC

ASP.NET MVC Basics



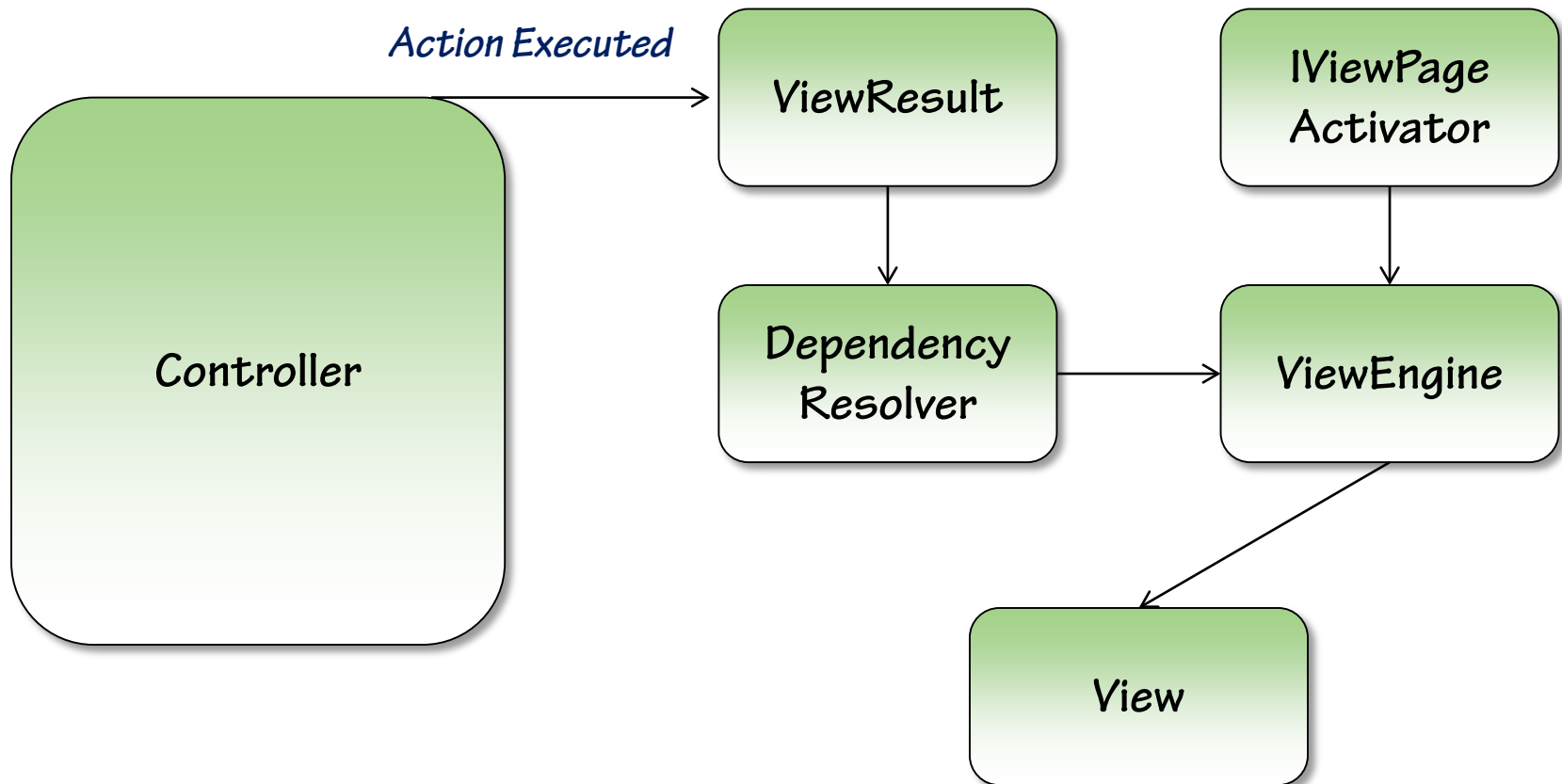
This is a very basic view of how requests are handled in MVC

How Controllers Are Created



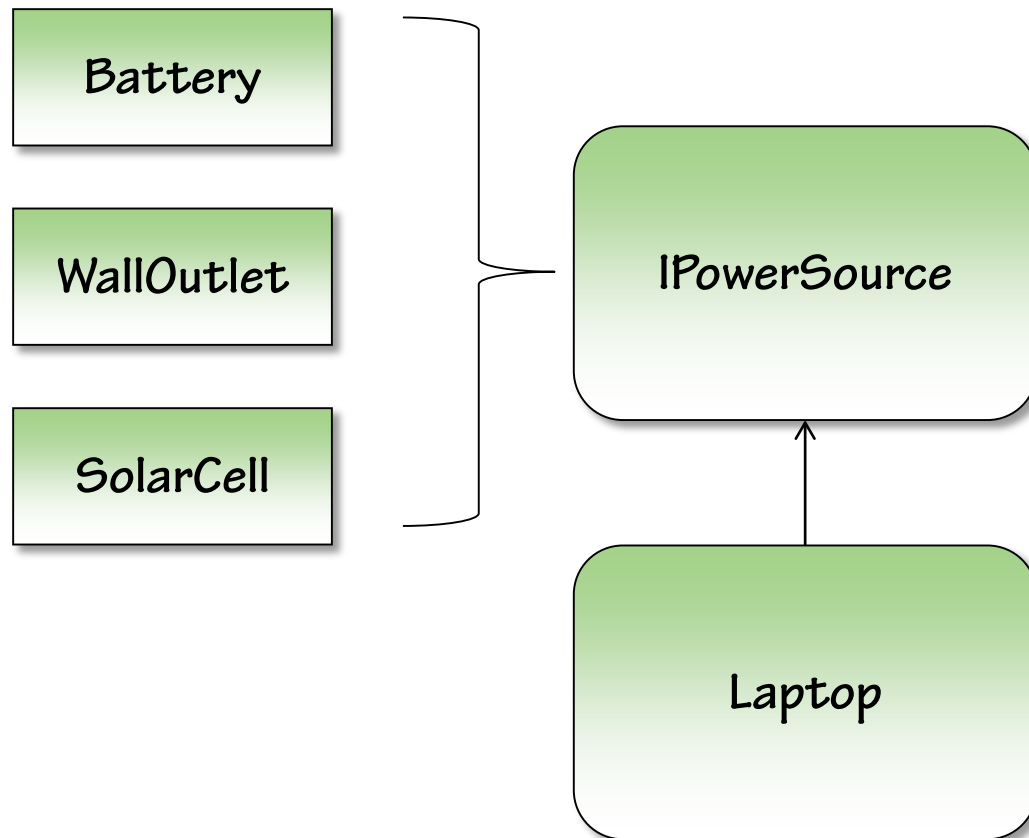
The controller factory is responsible for creating the controller

How Views Are Created



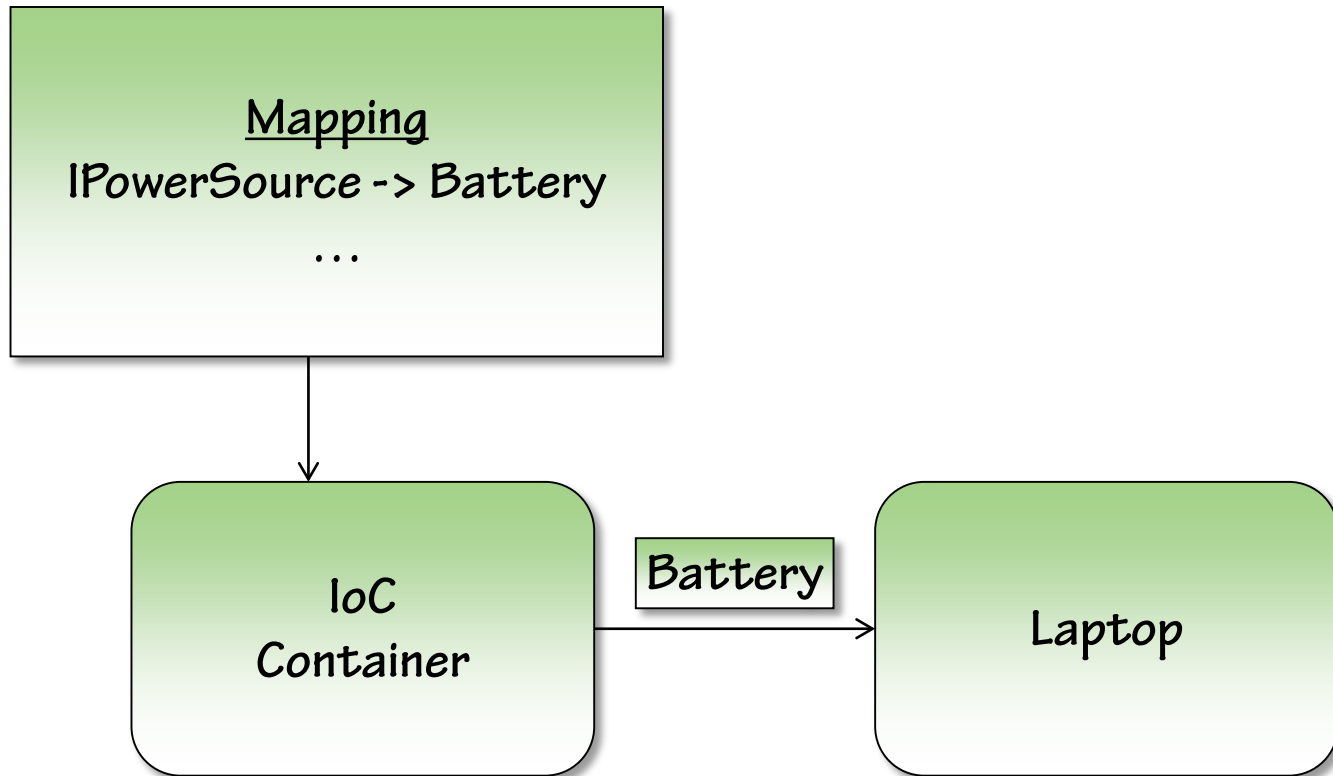
The view engine depends on a view page activator to create the view

IoC Basics



How do we construct a laptop without it depending on a specific power source?

IoC Basics



The IoC container can handle creating classes and resolving their dependencies

Run Down of IoC Containers

- Unity (Microsoft Implementation)
- AutoFac
- Funq
- LinFu
- Ninject
- Spring.Net
- Windsor
- More...



Big list here: <http://psight.me/ioc-containers>

What About MEF?

- MEF isn't really IoC
- MEF is about
 - Managing a set of "unknown things"
- IoC is about
 - Managing a set of "known things"



The screenshot shows the Pluralsight website interface. At the top, the Pluralsight logo is on the left, and navigation links for 'INDIVIDUALS', 'BUSINESS', 'ACADEMIC', 'FREE TRIAL', 'BLOG', 'SUPPORT', and a user profile 'john-sonmez' are on the right. Below this is a secondary navigation bar with 'Full Library', 'Categories', 'Authors', 'Popular', and 'New Releases', along with a search bar labeled 'Search the library'. The main content area features a course card for 'Building Extensible Applications with MEF'. The card includes a 'Software Practices' icon, the course title, a description of MEF as Microsoft's answer to the extensibility problem, and metadata: 'Authored by: Dustin Davis', 'Duration: 1h 55m', 'Level: Intermediate', 'Released: 8/2/2012', 'Features: CC', and a 'Course Rating' of four stars. Social sharing buttons for Google+, Twitter, Facebook, and LinkedIn are present. At the bottom of the card is a horizontal menu with buttons for 'Table of Contents', 'Description', 'Transcript', 'Exercise Files', 'Assessment', and 'Discussion'.

<http://pluralsight.com/training/Courses/TableOfContents/mef>

Up Next



We'll be doing a DIY (do it yourself) IoC in ASP.NET MVC 4