

ASP.NET Core 3.0

The MVC Request Life Cycle

ESSENTIAL LIFE CYCLE CONCEPTS

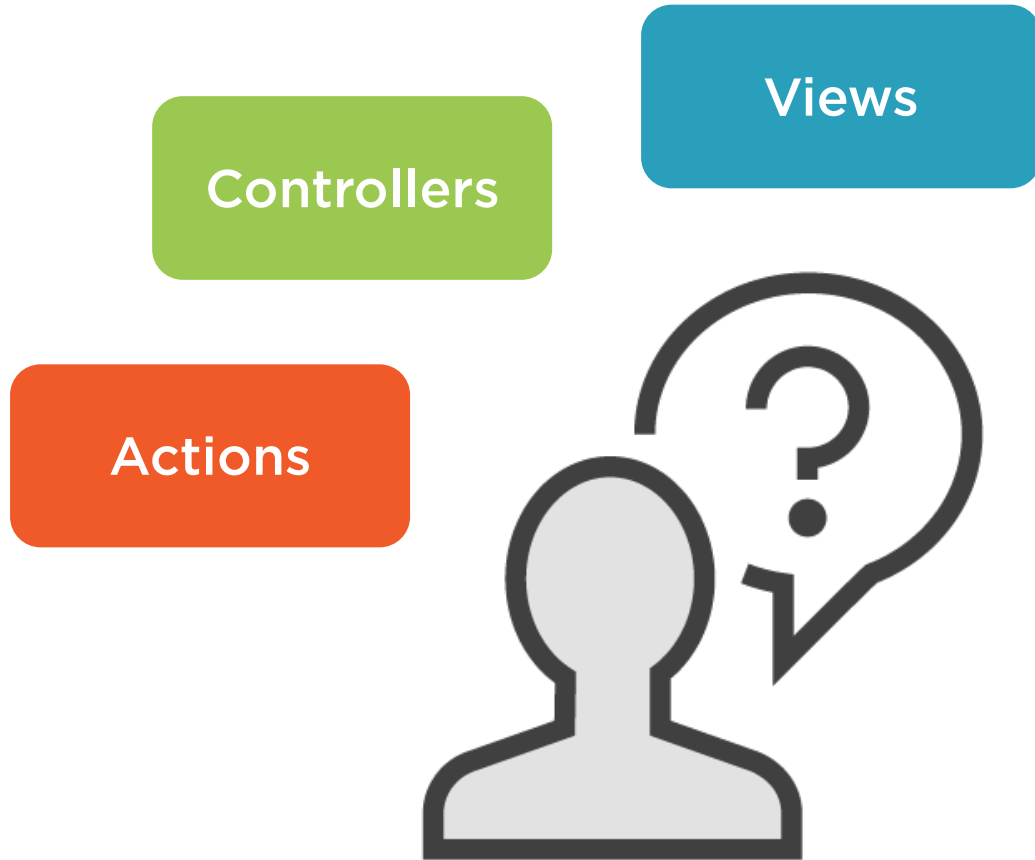


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Gaining a Deeper Understanding



**How are all of these
components connected
and integrated?**



Discovering Answers



How does a request translate from
Middleware to MVC?

Developers



How does a URL get mapped to a
Controller internally?



How are Action Results rendered
to the HTTP response?



Our Goal:

Increase our understanding of how MVC works to improve the way our applications are developed.



Benefits of Understanding MVC

Debugging

Troubleshoot problems
faster

Customization

Extend MVC to meet
your needs

Architecture

Structure applications
more thoughtfully



Defining the Request Life Cycle



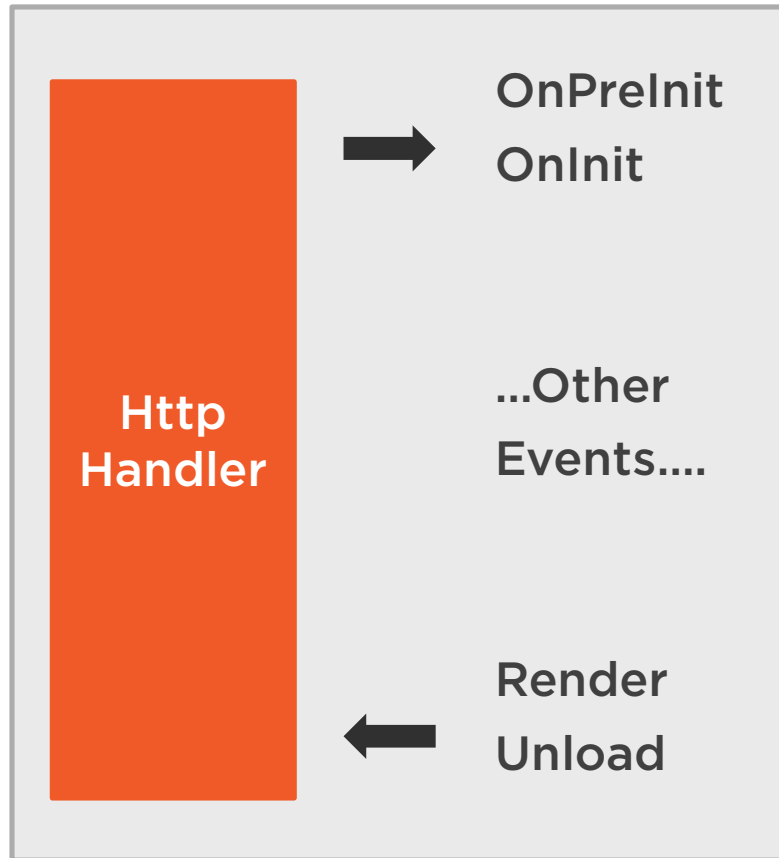
Life Cycle

A series of components, events, or stages of an application that process a request or respond to user interaction.



Sample Life Cycles

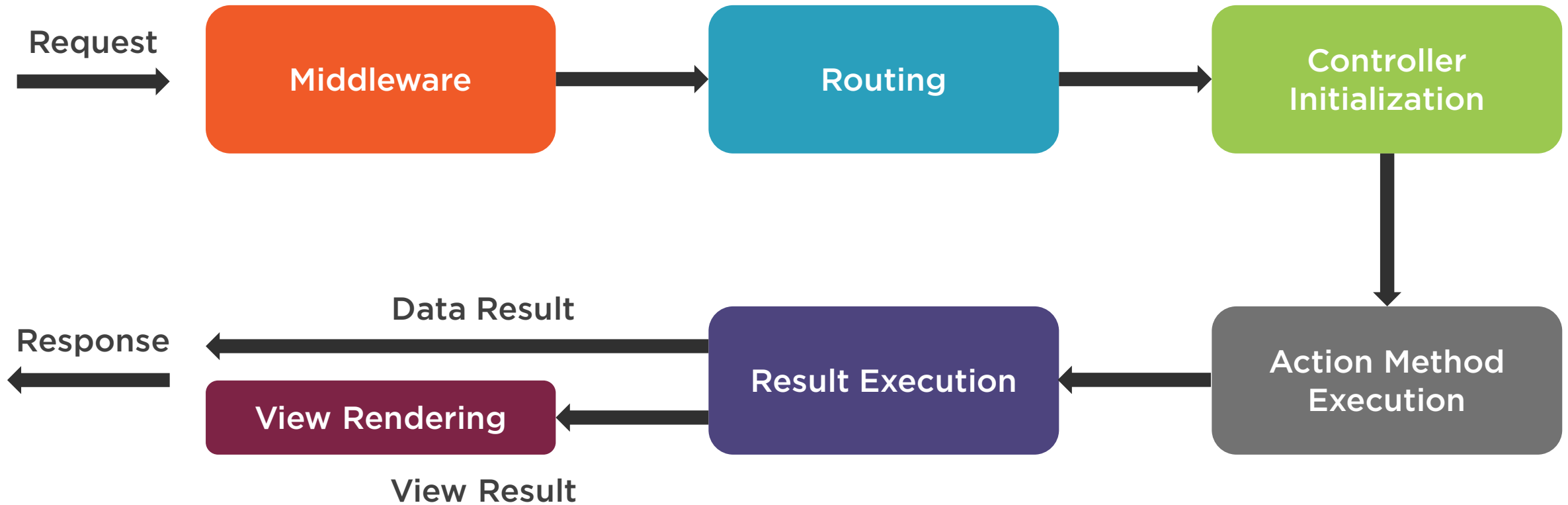
ASP.NET Webforms (Simplified)



Android Activity (Simplified)



The MVC Request Life Cycle



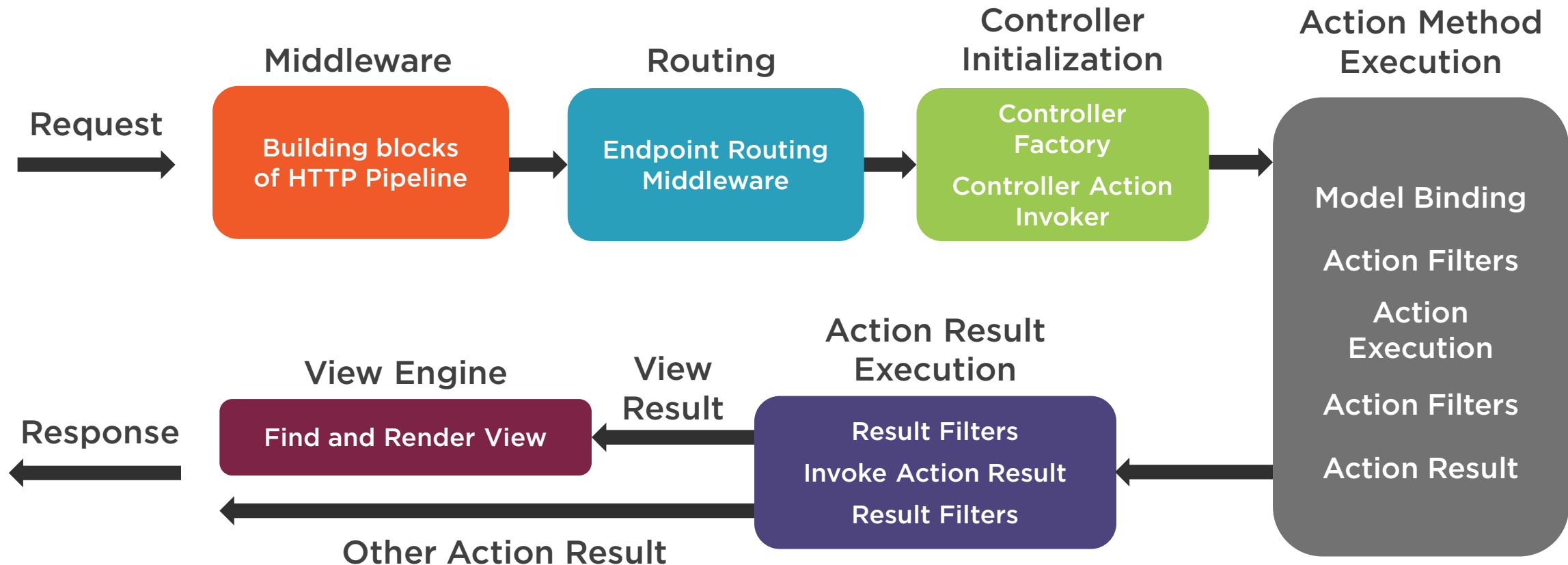
Understanding a framework's
processing pipeline empowers
you as a developer.



The MVC Request Life Cycle



The MVC Request Life Cycle



Introducing the MVC Source Code



A note about the source
code.



Benefits of Working with MVC Source Code

Code Navigation

Visual Studio Tools for traversing the source code

Sample Project

Includes a sample project already set up correctly

Debugging

Step through code to analyze components and workflows



Setting up MVC

Official instructions can be found below, but we'll be going through our own steps together.

<https://github.com/aspnet/AspNetCore>



Instructions



Install latest Visual Studio updates

Install Git and Node

Clone the MVC Source Code

Run setup scripts



Demo



Setting up the MVC Source Code



Demo



Touring the MVC Source Code

