Build Your Own Application Framework with ASP.NET MVC 5

What Is an "Application Framework?"

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What We'll Cover

Application Framework Basics

The Power of Inversion of Control

Optimizing Your Controller Layer

Optimizing Your View Layer

Optimizing Your JavaScript

Not For Beginners!

You Should Know:	Be Comfortable With:
• **Controllers** • **View** • **Models** • **Razor**	• **Action Filters** • **Action Results** • **HTML Helpers** • **Model Binding**

ASP. NET MVC 4 Fundamentals: http://goo.gl/jK0iS

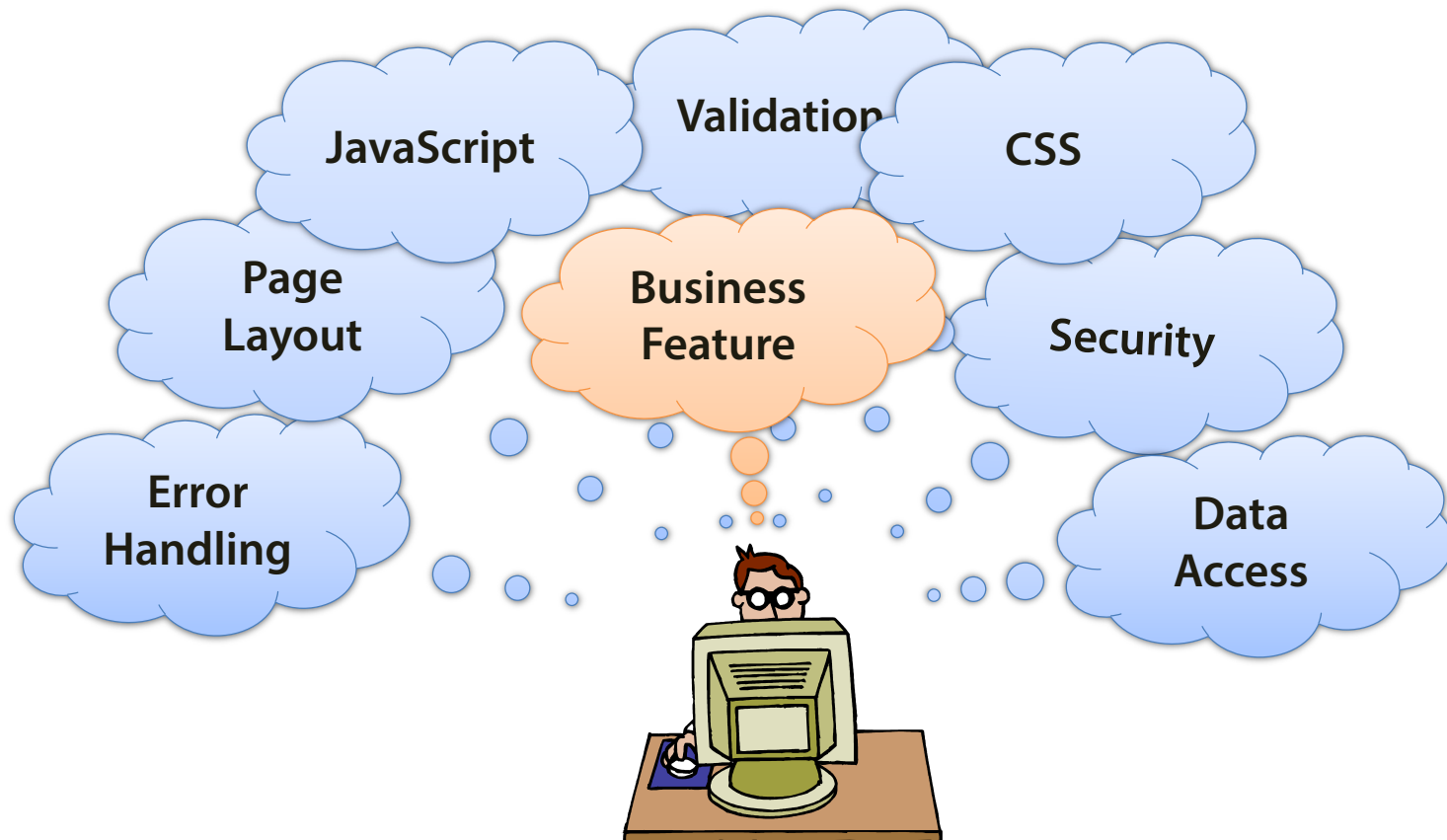# How This Course Will Make You a Better Developer

Get More Accomplished

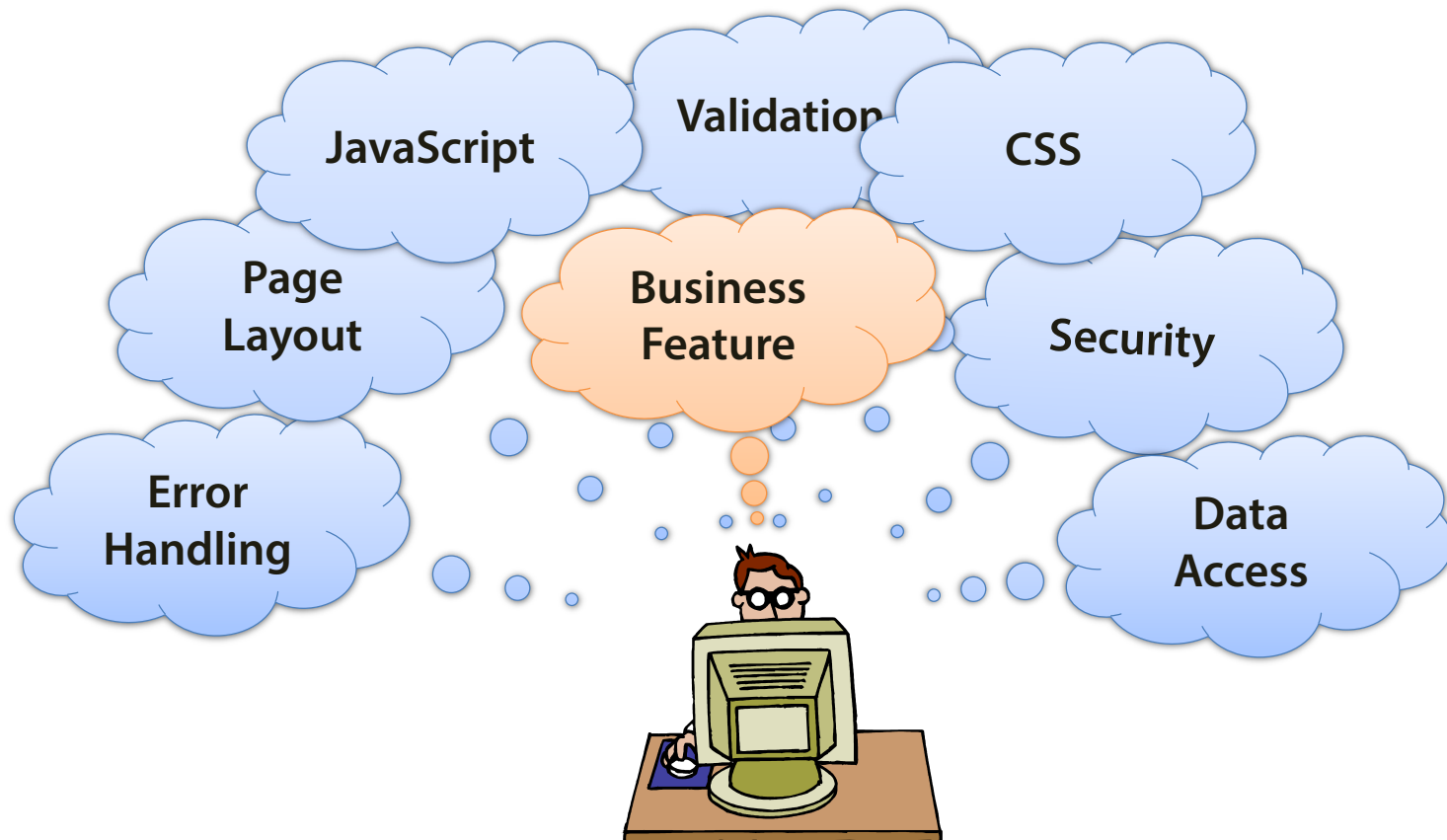**Write Less Code**

Go Beyond the Basics

Make ASP.NET MVC Work the Way <u>You</u> Want It To!

Development: There's a Lot to Think About!

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What Is an Application Framework?

Page Layout

Validation

Data Access
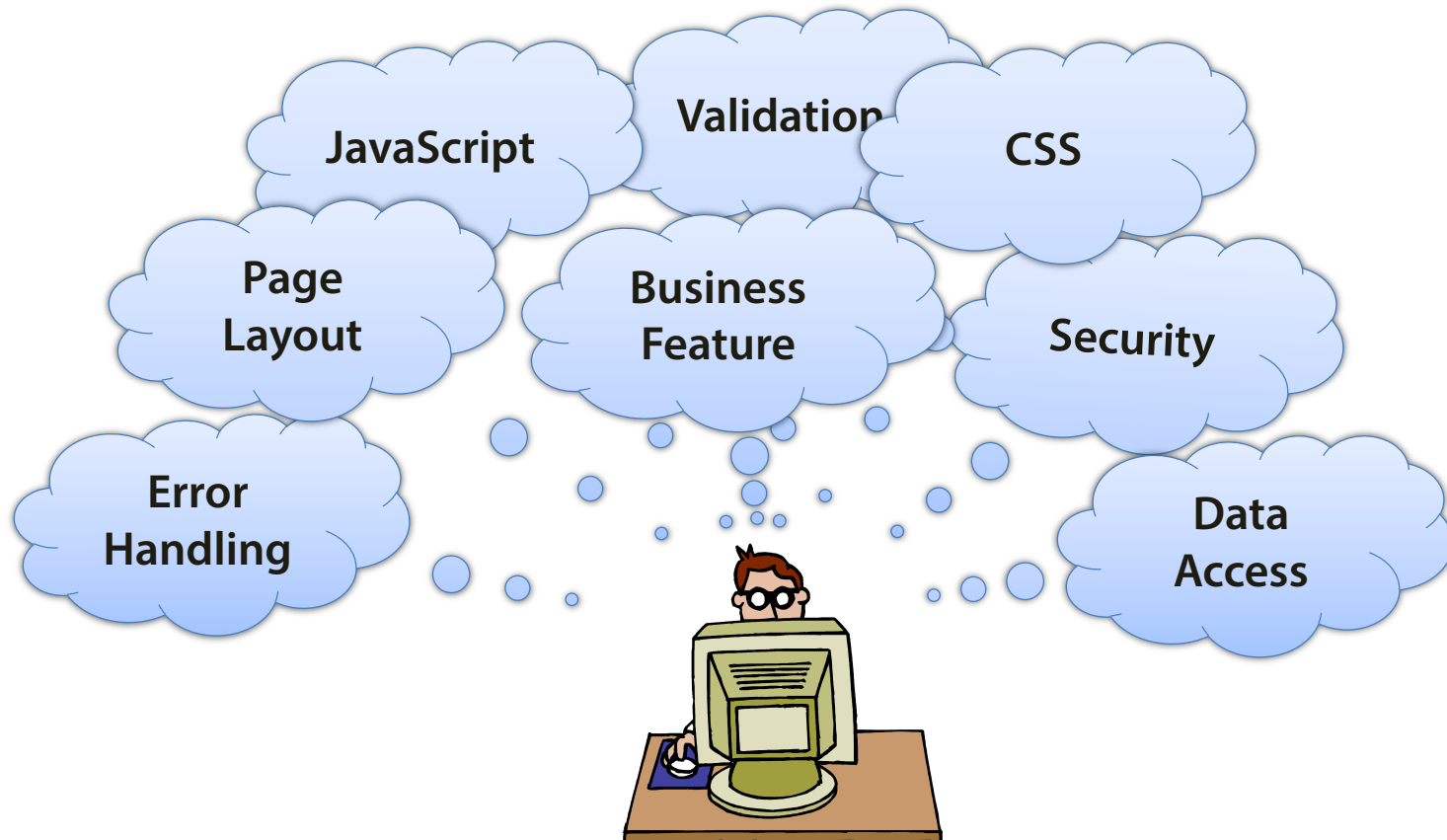
Dependency Injection

Logging

Error Handling

Security

Conventions & Infrastructure

And More!

The Effect of a Good Application Framework

Convention

Configuration

Convention Over Configuration

Reasonable Defaults

Only Specify the Unconventional Bits

Reduces the Number of Decisions You Have to Make

Eliminates Distractions

Simplifies Day-to-Day Development

Does <u>Not</u> Have to Sacrifice Flexibility!

Application Frameworks

Conventions	Architecture

Infrastructure	Team Agreement

Application Frameworks

A Good Framework:
- Simplifies
- Handles uninteresting concerns
- Does not sacrifice flexibility
- Conventions can be overridden progressively
- Helps you and your team work the way want to work

A Bad Framework:
- All-or-nothing
- Is complex
- Obfuscates code and logic
- Is difficult to troubleshoot or debug
- Is massive!

The ASP.NET MVC "Problem"

No IoC Container

Lacks Solutions to Common Problems

String-Based Helpers
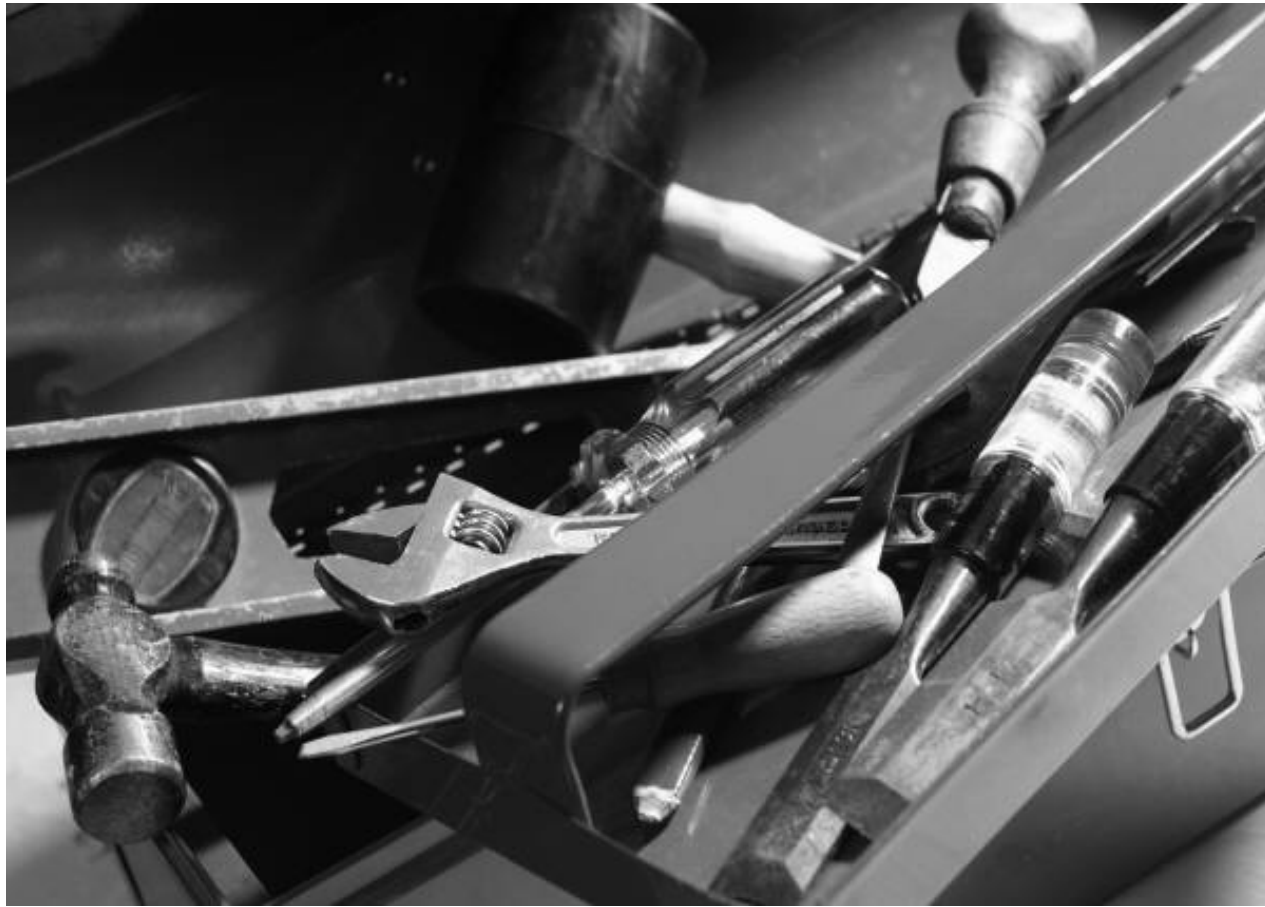
Poor Abstractions

Fat Controllers

There's more!

Let's Be Heroes!

A Good Framework…

Don't…

Summary

Introduced the Application Framework

Examined Convention Over Configuration

Good and Bad Qualities of Application Frameworks

What's Wrong with ASP.NET MVC

Next: the Heart of Fail Tracker's Application Framework