

More Expressive Testing in .NET with MSpec

Getting Started



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Why MSpec?



.NET testing framework

Specify behavior - not just testing code

What? not *How?*

Executable specifications

Course Overview

Getting Started

What is MSpec, installing and using MSpec

Exploring the Domain

Demonstration of sample application

MSpec Fundamentals

Syntax and techniques to use with MSpec

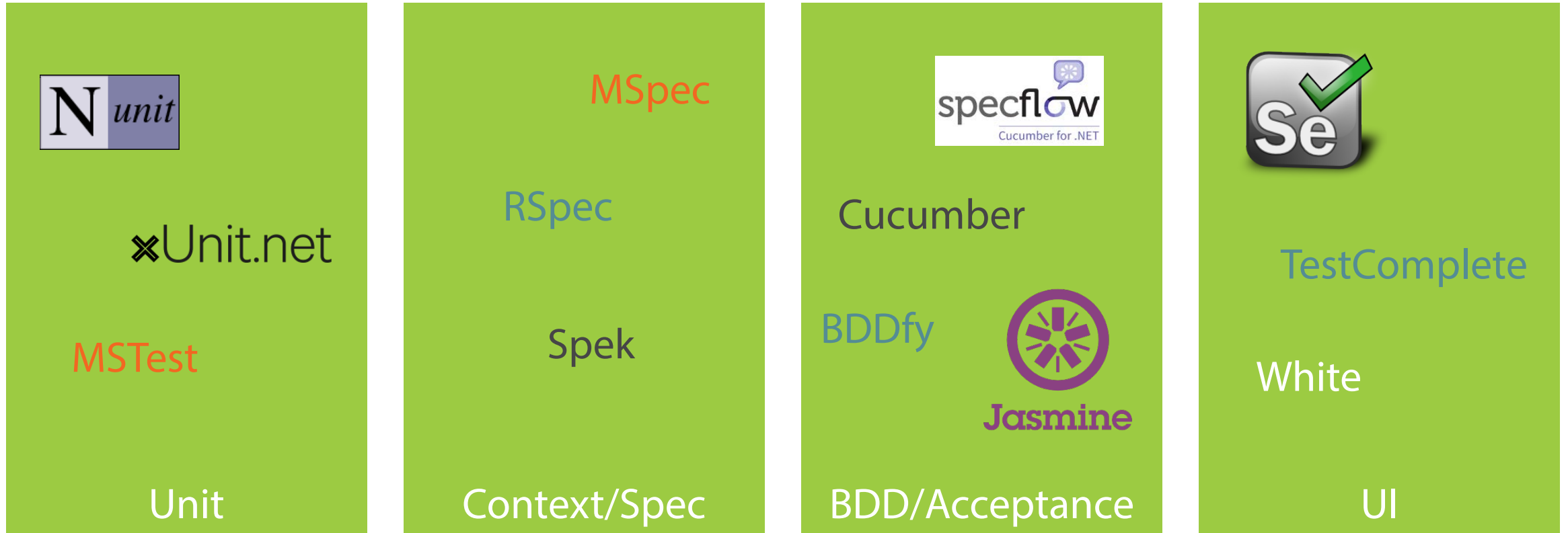
Beyond the Fundamentals

Behaviors and Fakes

What is MSpec?

- .Net testing framework
- BDD or Context/Specification framework
 - BDD (“Behavior Driven Development”) coined by Dan North in 2006
 - <http://dannorth.net/introducing-bdd>
 - “TDD done right”
- Created by Aaron Jensen in 2008
 - Machine.Specifications – inspired by RSpec, hence “MSpec”

The Testing Continuum



The Testing Continuum



Unit.net

MSTest

MSpec

RSpec

Spek



Cucumber

BDDfy



Jasmine



TestComplete

White

Automated Testing

“

As software developers we fail in one of two ways. We build the thing wrong, or we build the wrong thing.

— Steve Smith

”

Summary

- MSpec is a Context/Specification testing framework for .Net
- Focus is on creating executable specifications
 - *What?* not *How?*
- Install Machine.Specifications and an assertion library from NuGet
- Options for executing specifications
 - Console runner
 - Visual Studio test adapter
 - 3rd party test runner (ReSharper, etc.)