PRISM (Composite Application Guidance)

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Agenda

- Who am I?
- Aim of this session
- What is a composite application?
- Regions
- Commands
- Events
- Services
- Summary
- Questions



Who am I?

John McLoughlin

Freelance C# Developer/Technical Architect
Over 10 years in the software industry
Started off in Real-Time Embedded world
Made the move to .Net in 2003
Founded NxtGenUG – Southampton in Oct 2007

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Aim of this Session

To introduce you to the concepts in the Composite Application Guidance (PRISM)



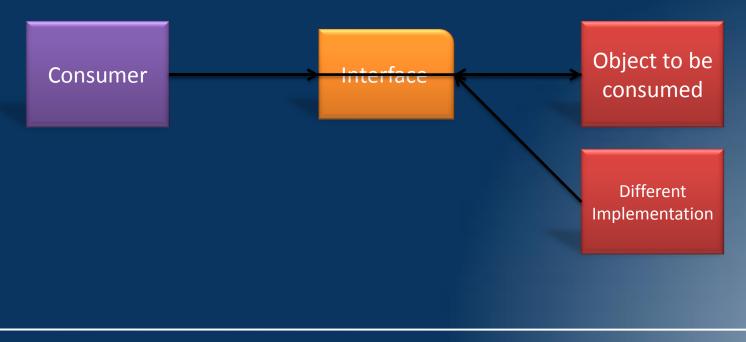
What is a composite application?

Modular Loosely coupled Extensible

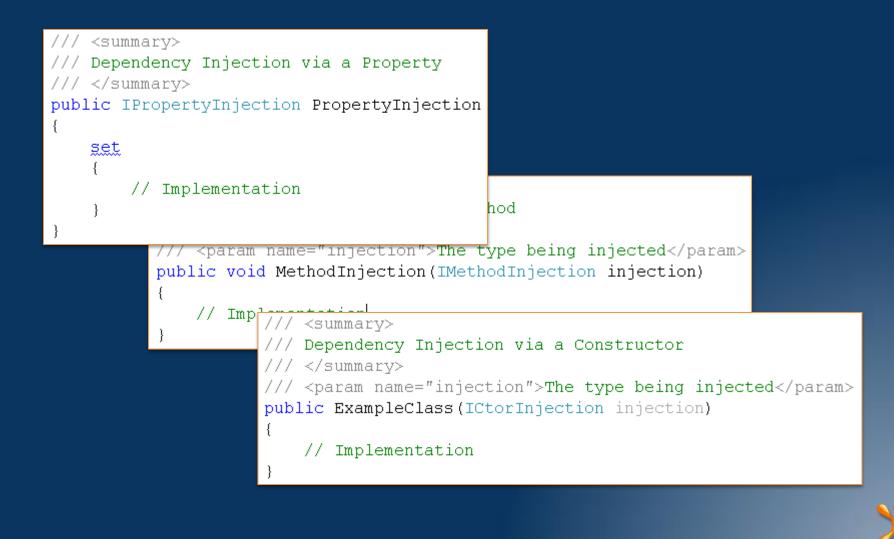


What is Dependency Injection?

Also know as "Inversion of Control" (IoC) or "Dependency Inversion Principle" or Code to Interfaces

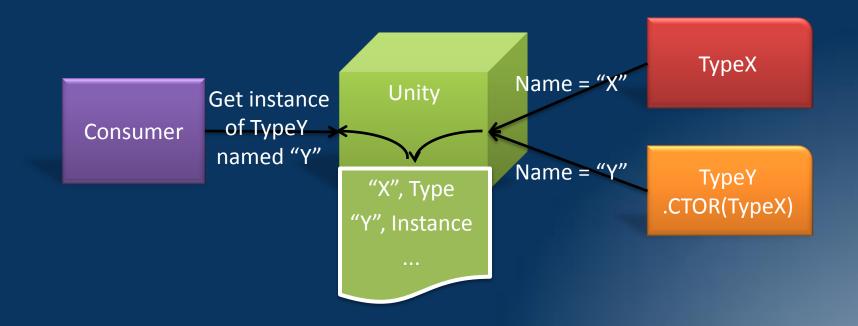


Types of Dependency Injection



The Dependency Injection Container

PRISM by default uses the Unity container

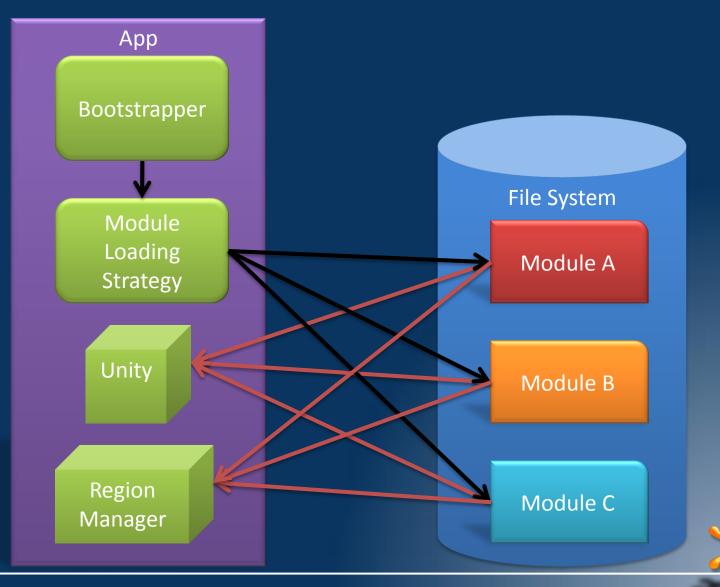




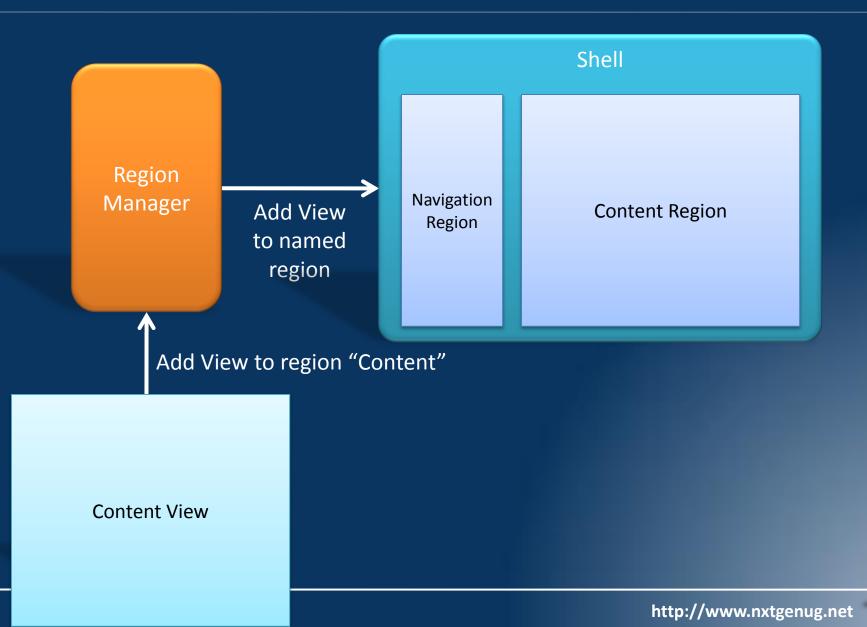
Dependency Injection with CAL



How the framework starts up



How Regions work

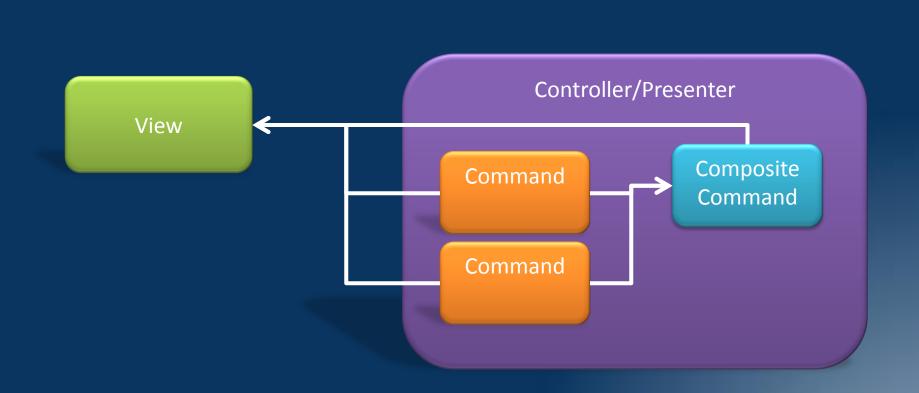


Converting an app and utilising Regions

DEMONSTRATION



How Commands work



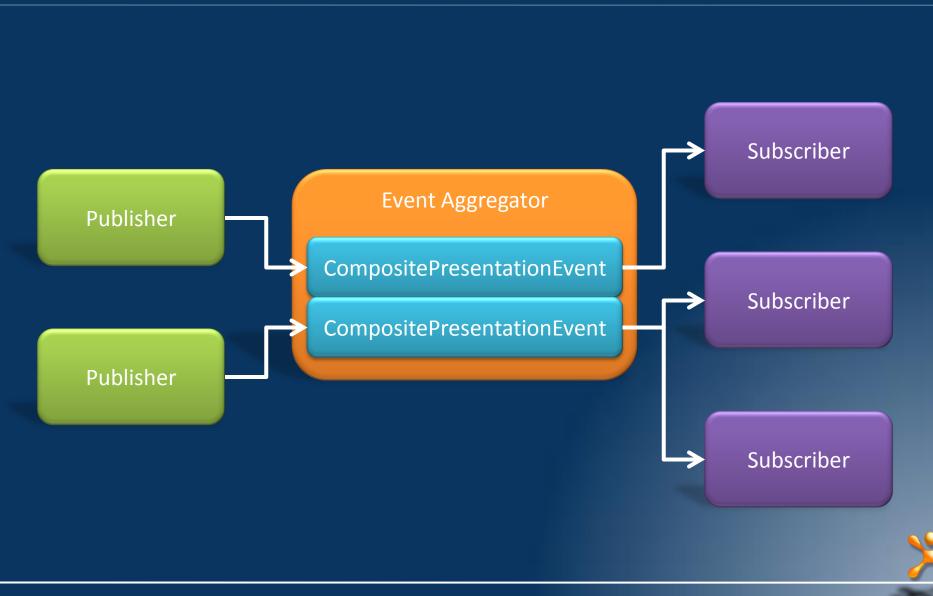


Utilising Commands

DEMONSTRATION



How Events work

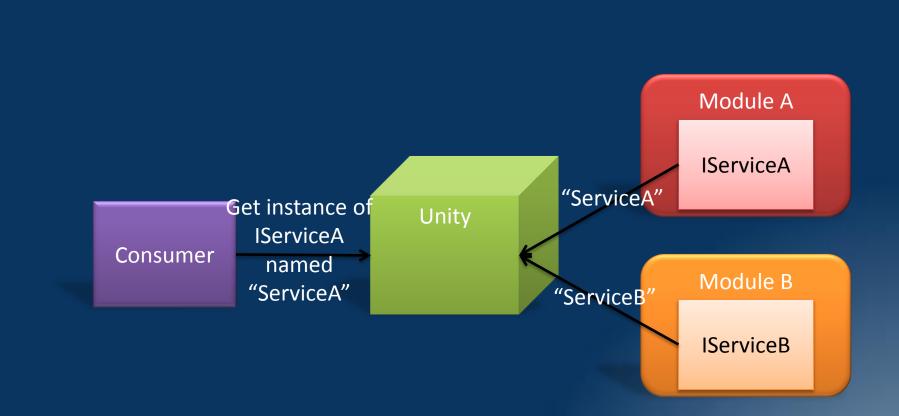


Utilising Events

DEMONSTRATION



How Services work





Utilising Services

DEMONSTRATION



What didn't I show you?

- Customising a Region Adapter
- Customising a Logger
- Using a DI Container other than Unity
 - Getting services via the ServiceLocator
- Multi targeting
- Mocking data when using Expression Blend



Summary

- Very simple to update your WPF and Silverlight app to use PRISM
- Encourages you to break you app up logically into modules
- You can use the same Views in both Silverlight and WPF apps (within reason)
- Based on proven Design Patterns



Questions?

Resources

www.codeplex.com/CompositeWPF www.codeplex.com/Unity www.codeplex.com/SmartClient

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