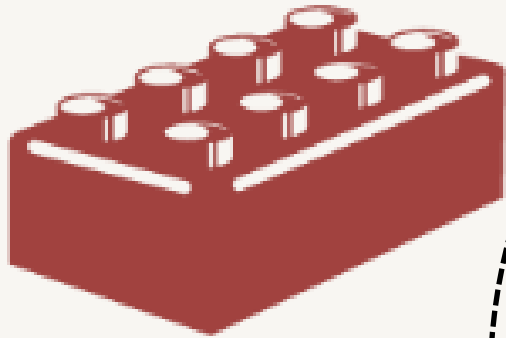


Building Better Integration Tests



***MANAGING RISKS
...NOT CODE COVERAGE***

Types of Testing



Unit



Integration



System

Integration Scenarios

- ORM Mapping and Behavior
- Database Behaviours
- Service Contract Verification
- Client/Server Interaction

Test Qualities

- Easy to Setup and Run
 - Order Independent
 - Quick to Run
- Easy to Maintain
 - Readable
 - Clear Boundaries - Unit, Components, Systems
- Trustworthy

Further discussion online at http://www.infoq.com/news/2008/10/qualities_good_test

Managing Fixture State

- Modeling test fixture dependencies:
 - Private User Mode Instances (most desired)
 - Private Integration Instances
 - Shared Integration Instances (least desired)
- Should always be in a known state
 - Assume previous tests did not clean up
 - Validate key aspects of dependency's state

Digging in...

Testing Fixtures with xUnit.net

Resources

- SQL Server LocalDB
colinb.me/sqllocaldb
- NDbUnit
colinb.me/ndbunit
- NBuilder
colinb.me/nbuilder
- IIS Express
colinb.me/getiisexpress
- xUnit.Net
xunit.codeplex.com
- xUnit Patterns
xunitpatterns.com

the end.