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Test Driven SharePoint Development

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About Me

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 - Agile Developer and Mentor, SharePoint Consultant trying to make SharePoint development better



Agenda

- What is TDD
- Demo: My First TDD
- SharePoint adds Challenges
- Demo: My First TDD with SharePoint
- Demo: Faking it



Giveaway

- 3 Typemock for SharePoint Licenses



10 Reasons TDD sucks

- ▶ Reason #1: TDD is often used together with all of the possibilities they provide and don't understand sarcasm. This type of writing was forever



So what is TDD?

- As described by Uncle Bob in

*'The Three Rules of TDD'**



* Robert C Martin, aka Uncle Bob



Rule 1

- You are not allowed to write any production code unless it is to make a failing unit test pass.



Rule 2

- You are not allowed to write any more of a unit test than is sufficient to fail; and compilation failures are failures.



Rule 3

- You are not allowed to write any more production code than is sufficient to pass the one failing unit test.



Think about

- Code is working every minute
 - Less debugging = less wasted time
- How many test created
 - every hour, day, week, month, year
- Confidence to fix up messy code
- Documented API examples
 - Wouldn't you love that for SharePoint



My First Test Driven Development

DEMO



My First TDD

- Using 3 rules
- Created Tests first to drive design
- Refactored code and tests
- No extra code we didn't need



My First Test Driven Development with SharePoint

DEMO



My First TDD with SharePoint

- Its 64bit
 - Can't use MSTest (yet)
 - Need to configure for AnyCPU
- We really did Integration Tests
 - Overhead of setup
 - Slow to run



Faking It!

DEMO



Faking It

- Used Typemock
- Patterns help testability



Other benefits of Faking it

- Fake SPContext
 - Return real SharePoint objects
- May Allow Unit Testing Linq to SharePoint
 - More info coming soon



Questions?



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