Unit Testing in VFP

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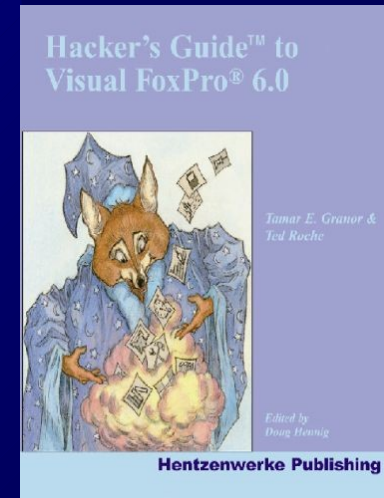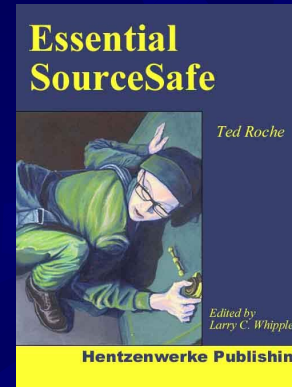http://www.tedroche.com

Who is this guy?

* Consultant
* Author
  * *Essential SourceSafe*
  * *Hacker's Guide to Visual FoxPro*
* Microsoft Certified Solution Developer
* Microsoft Certified System Engineer
* Microsoft Support Most Valuable Professional

Essential SourceSafe

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Larry C. Whipple

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Hacker's Guide™ to
Visual FoxPro® 6.0

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What we'll cover tonight

* eXtreme Programming tenets
* Refactoring
* Unit Testing
* How to accomplish this in VFP

eXtreme Programming tenets

* Customer On-Site

* Pair Programming

* Short Iterations before delivery

* Continuous integration

Refactoring

* Rules for making objects work better

Unit Testing

- Before developing a new method, define a test that describes:
  - What the method does
  - How it handles errors
  - What it returns
- Write the tests, *then* write the code
- "UnitTests are programs written to run in batches and test classes. Each typically sends a class a fixed message and verifies it returns the predicted answer. " – c2.com

How to do it in VFP

* Extreme Programming
* Refactoring
* Unit Testing

Extreme Programming: Planning

Priority

1

User Story

Enhancement Request 100234:
Need to re-cost parts as job changes

2 days / 3 days

TR

Estimate

Actual

Assigned to

Refactoring

- Martin Fowler wrote book, Addison-Wesley
- Discusses basics of refactoring
- Catalogs common refactorings
- Explores issues, business, psychological with programmers and managers

Unit Testing

* XP says to write tests first
* Run tests to confirm it fails
* Write code to pass tests
* DONE!

Unit Testing

- Ideally, unit tests can be run as one-off and in a batch
- Requires "TestFriendlyEnvironment"
- Framework that supports
  - Global object creation
  - Login bypass
- Command-line and GUI "runners"

Other Kinds of Testing

* Load Testing
  * Microsoft site for free web testing tool
* GUI Testing
  * FoxRunner from Manfred Ratzmann
  * Automating Internet Explorer from VFP
  * VFP 7 AATest.APP
* Coverage Testing
  * VFP Coverage Profiler

Where to learn more

* http://www.xprogramming.com
* http://fox.wikis.com/wc.dll?Wiki~Category

* FoxRunner: (in German)
  http://www.cal.de/autofox.htm
  http://www.hallogram.com/foxrunner/

Thank you!

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