

#### Cheap and Free Test Tools

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#### At the Start

- This will be an interactive session
  - At least for me
- A few demos
- A few screenshots
- You can find this posted at my website
  - http://www.riceconsulting.com



#### Constraints

- You may find it hard to get your management to consider using an open-source or free tool.
- Some companies are heavily invested in commercial tools (that may or may not be the best ones for you), so they keep out any other options.



#### A Strategy For Acceptance

- Make the business case in cost vs. benefits.
  - Also, bring out the reality of having a free tool vs. no tool.
- Include information about companies like Sun, IBM, and Microsoft that have contributed open-source and free software.



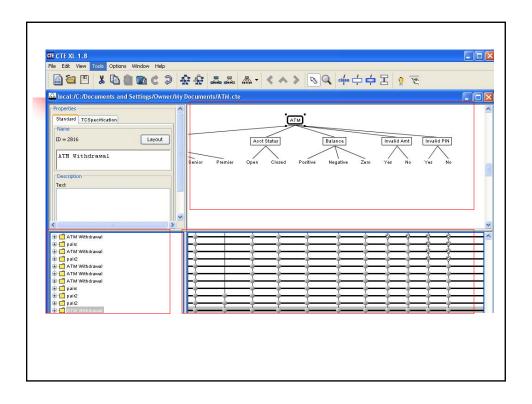
#### Tool Types We Will Cover

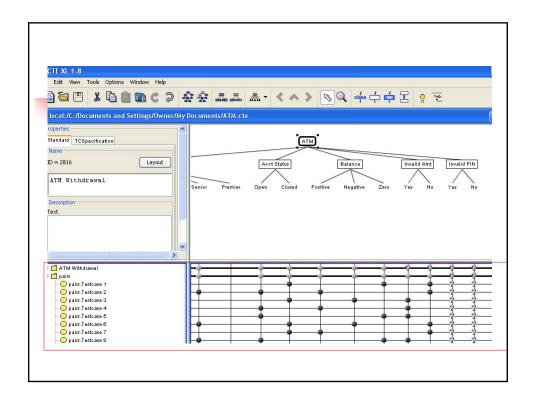
- Test Design
- Test Execution
- Test Management
- Test Data
- Test Evaluation
- Defect Tracking
- Special Applications SOA, Load testing, Web testing



# Test Design

- CTE-XL for classification trees
  - www.systematic-testing.com
  - Also provides pair-wise and triple-wise test combinations
- FireEye
  - www.nist.gov
- AllPairs www.satisfice.com
- PICT <u>www.microsoft.com</u>
- More at www.pairwise.org







# Test Design (2)

- Unified TestPro Extended for Manual Testing
  - Utilize keyword test paradigm without automation startup costs.
  - Benefits of automation brought to manual testing
    consistency, manageability, scalability
  - Accurately execute and record manual test results.
  - Reduce test time with reusable test cases.
  - Easy auto-import for existing manual test cases
  - Easy test organization and reporting.
  - Internet Explorer and Firefox compatible.
  - Cloud (Web) based server support.
  - www.sdtcorp.com



#### **Test Execution**

- Macro Scheduler
  - www.mjtnet.com
  - Windows only
  - Row/Column oriented
  - \$110 per individual license
  - \$995 for enterprise license
  - Like capture/playback, but no comparison features
  - Has a robust scripting language



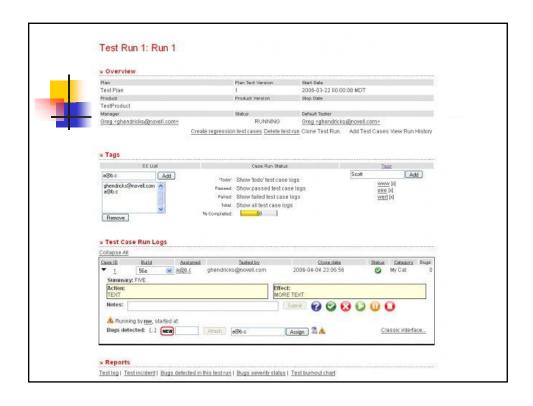
#### Test Execution (2)

- FitNesse
  - http://fitnesse.org
- Apodora
  - http://www.apodora.org



# Test Management

- Testopia
  - Testopia is a test case management extension for Bugzilla.
  - It is designed to be a generic tool for tracking test cases, allowing for testing organizations to integrate bug reporting with their test case run results.
  - Though it is designed with software testing in mind, it can be used to track testing on virtually anything in the engineering process.
  - http://sourceforge.net/projects/testopia



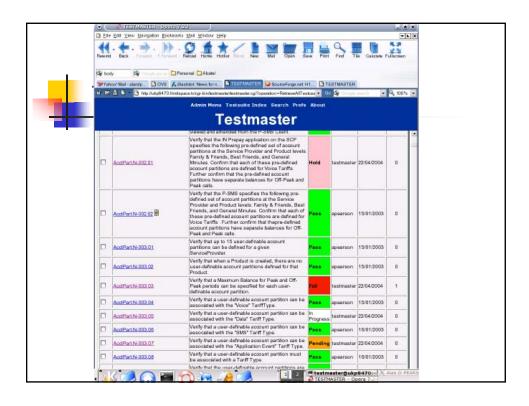


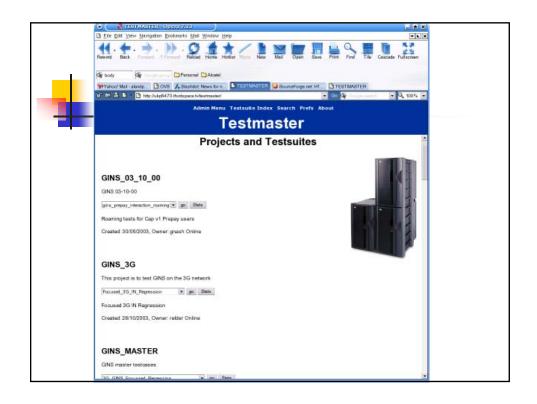
- qaManager
  - http://sourceforge.net/projects/gamanager
  - web based application used for keeping track of engineering and customer releases of Software Projects, Resource allocations and related information.
  - It helps QA Managers to keep track of releases effectively. Powered by OpenXava and Java.

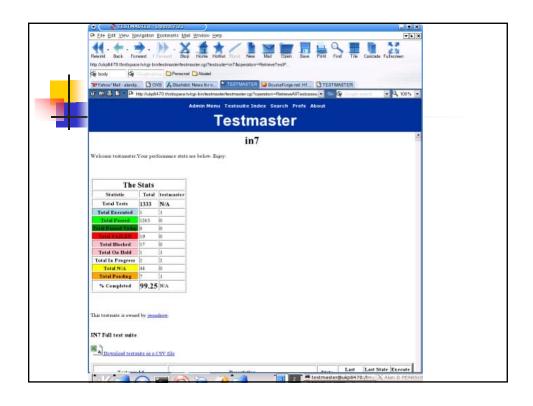


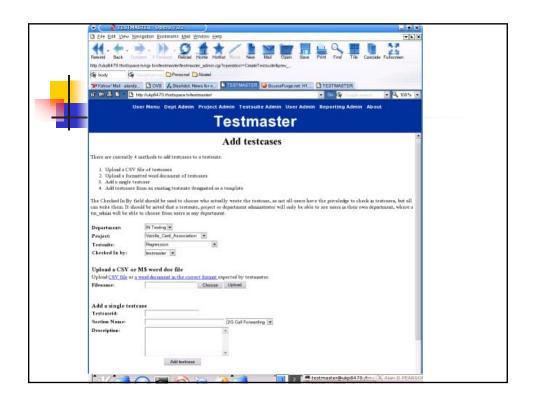


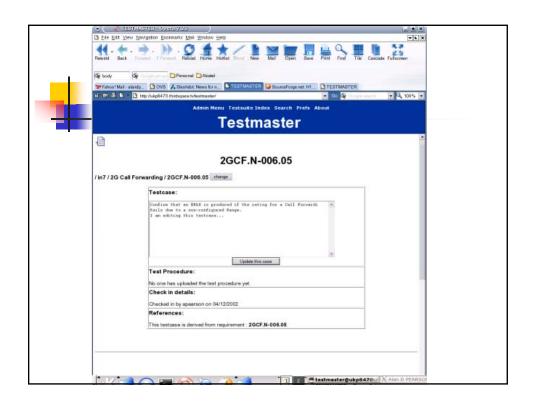
- TestMaster
  - http://testmaster.sourceforge.net/
  - A test case logging, reporting and test automation tool, much like the commercial product Test Director.





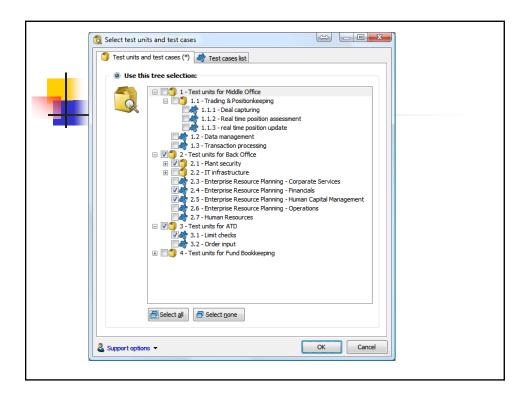






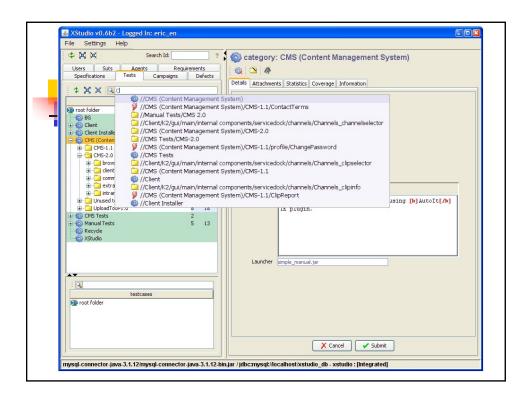


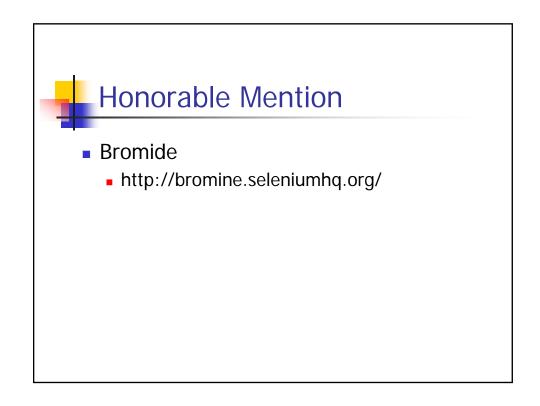
- Zeta Test is an integrated test management environment that enables you to perform black-box tests, white-box tests, regression tests or change management tests of software applications.
- Zeta Test helps you to plan, perform, log, monitor and document the tests, and then to evaluate the test results.
- Cost Free
- www.zeta-test.com





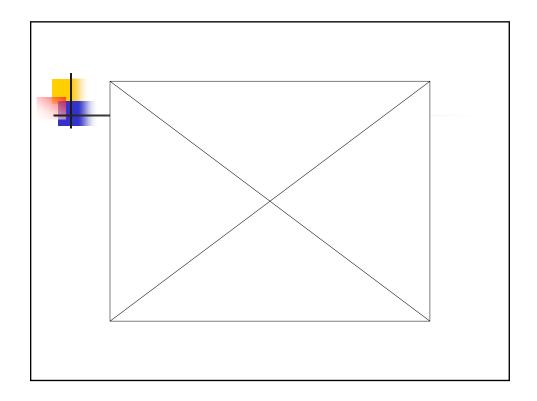
- Free at <a href="http://www.xqual.com">http://www.xqual.com</a>
- XStudio is a fully-graphical application developed in Java (so theoretically deployable on any OS).
- All of the data are organized within trees for more flexibility.
- Integrated management All entities involved in the QA/testing projects are managed by XStudio.
  - This makes lots of metrics/statistics/status generation much more easier.





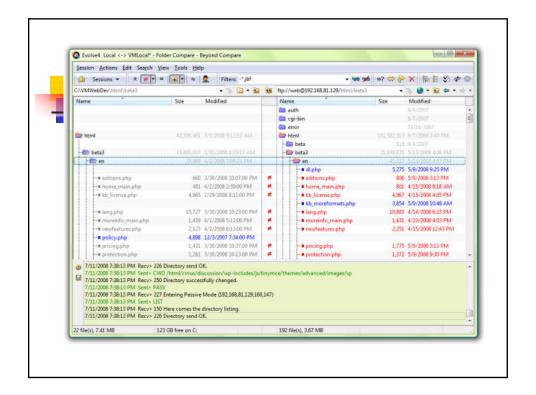


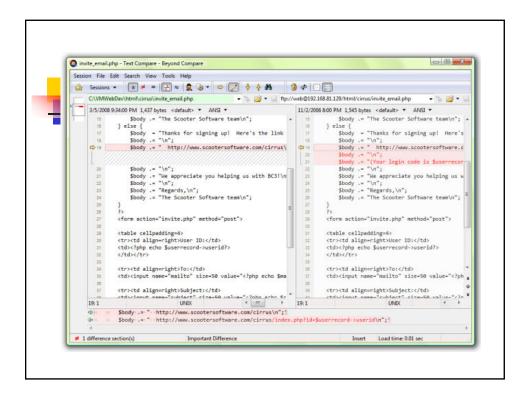
- Generatedata.com
  - www.generatedata.com
  - Creates test data in a variety of forms:
    - Text, cvs, XML, Excel, SQL
  - Free and Cheap Subscriptions Available
- DBFeeder
  - Automatically generate test data for Oracle Databases which fits primary and foreign keys of tables. A file-based configuration system allows indepth customization of the generated data.

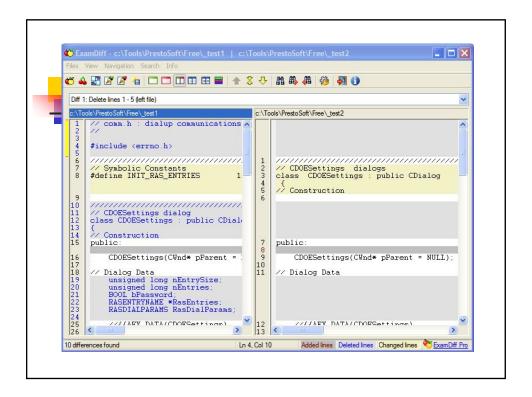




- Beyond Compare
  - www.scootersoftware.com
  - \$30/single user, volume discounts
- Exam Diff
  - www.prestosoft.com
  - Free and Pro versions
  - \$35/single user, volume discounts









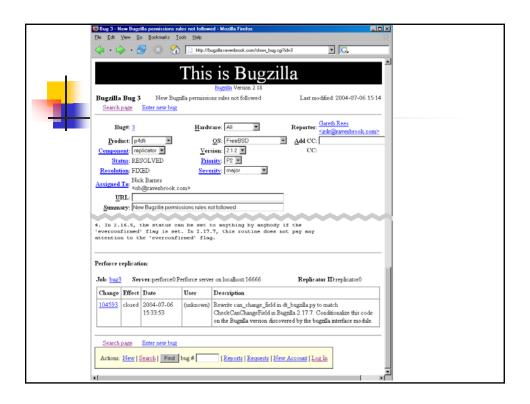
# Test Evaluation (2)

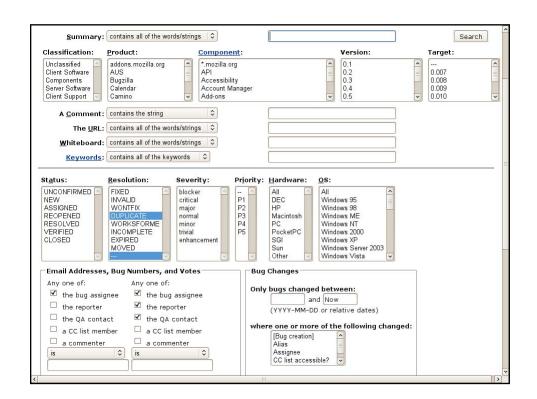
- Windows Media Encoder
  - Free at www.microsoft.com
  - Captures screen video in wmv format
- Hypercam
  - \$30/single user at <a href="https://www.hyperionics.com">www.hyperionics.com</a>
  - Captures screen video in avi format
  - Volume discounts

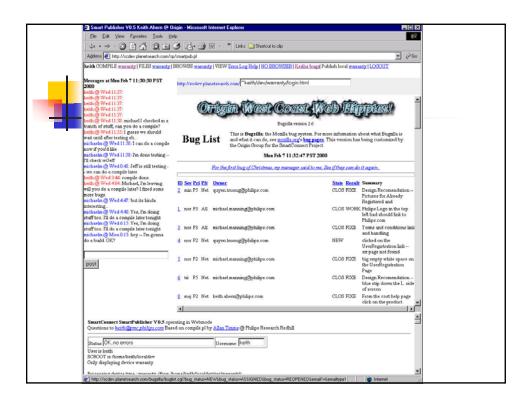


#### **Defect Tracking**

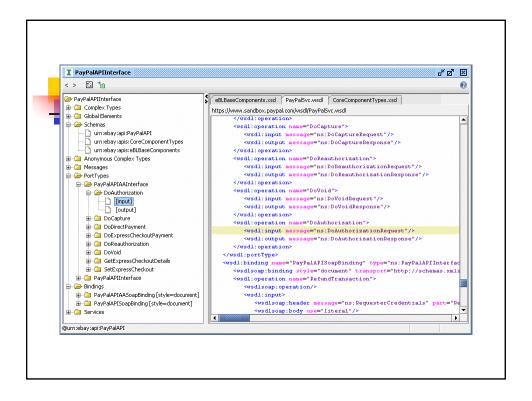
- Bugzilla free at <u>www.bugzilla.org</u>
- FlySpray Free at <u>www.flyspray.org</u>
- Many more at:
  - http://www.software-pointers.com/endefecttracking-opensource-tools.html

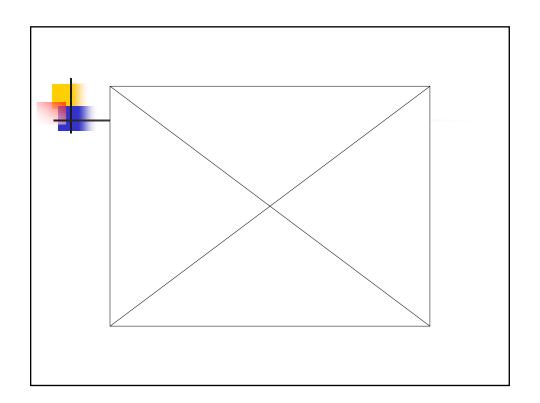






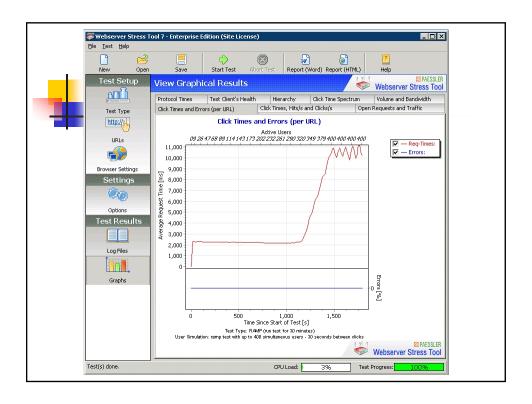








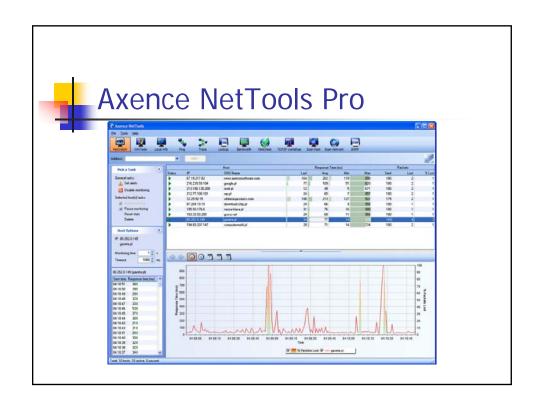
- Paessler Web Server Test
- www.paessler.com
  - Pro edition single user \$249
    - 100 Concurrent virtual users
  - Enterprise edition single user \$750
    - Up to 10,000 concurrent virtual users
  - Enterprise edition 5 user \$1,449
  - Enterprise edition site license \$2,895





#### **Network Monitoring**

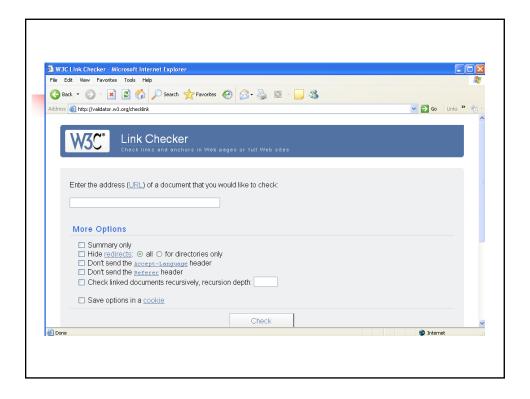
- Axence NetTools Pro www.axencesoftware.com
- FREE and very comprehensive set of network administration tools:
  - NetWatch network monitoring with alerting, real-time & historical charts;
  - WinTools lists exhaustive system information from Windows computers;
  - port scanner; network scanner;
  - NetStat lists local inbound & outbound connections;
  - TCP/IP workshop for low level service testing; ping; fast traceroute;
  - DNS lookup; bandwidth test tool; SNMP browser and more.



# Web Testing

- Link Checkers
  - Link Tiger <u>www.linktiger.com</u>
  - Xenu www.xenu.com
  - X3C http://validator.w3.org/checklink
  - Jspider <a href="http://j-spider.sourceforge.net/">http://j-spider.sourceforge.net/</a>
  - More at http://www.cryer.co.uk/resources/link\_checkers.htm
- Compliance Checkers
  - http://www.thefreecountry.com/webmaster/htmlvalid ators.shtml







- DimDim <u>www.dimdim.com</u>
- Free web video conferencing for up to 25 people
- Allows recording and private sessions
- Conference Calls
  - TalkShoe <u>www.talkshoe.com</u>
  - Great for distributed teams who want to talk for free.
  - Recordable and private



#### Open Office

- If you don't have MS Office, consider Open Office
  - 3.1 is an excellent release
  - Very compatible with MS Office
  - Spreadsheet macros can be an issue
  - Free at www.openoffice.org



#### Summary

- These tools can all be helpful in different ways.
- With test tools, you don't always get what you pay for, so regardless of the price do a decent evaluation.
- Free and cheap tools allow you to obtain and learn tools on your own.
  - This helps in building your personal tool kit.



#### Resources

- www.opensourcetesting.org
- www.riceconsulting.com/cheaptools.htm
  - I keep this page updated as I learn of new tools.
  - Let me know if you find a new one!



#### Bio - Randall W. Rice

- Over 30 years experience in building and testing information systems in a variety of industries and technical environments
- Certified Software Quality Analyst
- Certified Software Tester
- ASTQB Certified Tester Foundation level, Advanced Level – Test Manager
- Treasurer of the American Software Testing Qualification Board (ASTQB)
- Chairperson, 1995 2000 QAI's annual software testing conference
- Co-author with William E.Perry, Surviving the Top Ten Challenges of Software Testing
- Principal Consultant and Trainer, Rice Consulting Services, Inc.





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