

Title: Architecture and Design of Automated Software Tests  
Presenter: Douglas Hoffman  
Software Quality Methods, LLC.

Automated regression testing is the most popular approach to software test automation, but is often neither the most effective nor the most cost-effective approach. It is just one strategy among many. Likewise, regression test tools are one set of test tools among many. The workshop looks at several approaches to test automation, provides some cost/benefit/risk/prerequisite ideas about them, and provides some architectural and design suggestions for developing automated test suites. This tutorial is intended to help you do a better requirements analysis and develop a sensible architecture for your automated testing effort.

Topics emphasized:

- Why Automate Software Tests?
- Automated Test Design
- Test Automation Strategies
- Automated Test Oracles
- Automation Architectures

NOTE: This tutorial is not about how to use any particular test tool and will not teach you how to write code in any particular test tool's programming language.