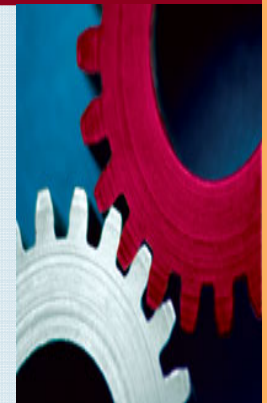


# Best Practices / Tips & Tricks With QuickTest Pro 9.2



**Rob Anderson**  
**SPAN Technologies**  
[www.spantechnologies.com](http://www.spantechnologies.com)  
973.287.8400





# Agenda

## Best practices with QTP

- Object Repositories
- Modular Scripting, Reusable Actions and Function Libraries
- Error Handling

# Best Practices With The Object Repository



Copyright: SPAN Technologies 2007.

# Best Practices: Object Repository

- Create Object Repository while creating the script
  - Rename objects to meaningful names as you go  
Makes scripts more readable and easily maintained
- Map Custom Objects before scripting
  - Allows custom objects that behave like standard objects to be treated like standard objects
- Use Shared Object Repositories
  - Create one Shared Object per high-level application module  
For instance HR will have its own Shared Object Repository; Order Processing will have a Second Shared Object Repository  
Be sure not to overlap objects within multiple shared Object Repositories



# Best Practices With Modular Scripting, Reusable Actions and Function Libraries



Copyright: SPAN Technologies 2007.

# Best Practices: Modular Scripting, Reusable Actions and Function Libraries

- Use Modular Scripting
  - You can use principles of Modular Scripting or Business Process Testing (BPT) even if you are just using QTP
- Use Reusable Actions to mimic common Business Actions
  - Example: Login can be a Reusable Action
- Use Function Libraries for commonly used low-level activity
  - Example:
    - Functions to manipulate log files
    - Functions to work with custom objects
- Associate function libraries with the script
  - Use the Test Settings to associate
    - This allows you to use line numbers within errors while debugging
- Keep functions only used in the current script, in that script
- Place globally used functions in a library external to the script



# Best Practices: Modular Scripting, Reusable Actions and Function Libraries

- Keyword Driven Testing

Benefits:

- QA Team can support testing without knowing QTP or VBScript
- Test cases are isolated from VBScript
- Test cases are immune to application GUI changes

Challenges:

- Requires VBScript programming support for the Keyword Driven Engine

Best Practice: Use keyword driven testing approaches only if your team has internal VBScript support



# Best Practices: DataTables

- List all testcases in the DataTable, creating a data driven test
- Only use the DataTable for data that will vary during each testcase



# Record & Run Settings

- Use the “Record on any open Browser” option for Web Applications
- Use the “Record on any open Application” for Desktop Applications



# General Test Settings

- Most test settings will be defaulted to acceptable values so that you can start writing your scripts without change to these settings.
- Best Practice: Add the test settings as needed while recording and customizing the scripts (resources, parameters, recovery scenarios, etc...)



# Descriptive Programming

- Use when the properties of an object are dynamic and its properties are unknown for each iteration of the script
- Use descriptive programming sparingly



# Best Practices With Error Handling



Copyright: SPAN Technologies 2007.

# Best Practices: Error Handling

- Limit use of Recovery Scenarios to unexpected errors
  - Do not use recovery scenarios when the error messages are predictable
  - Use conditional logic for predictable errors
  - Makes script **execution more reliable**



# Q&A

For a copy of this presentation,  
visit [www.spantechnologies.com](http://www.spantechnologies.com)

