Hej.

Jag heter Stuart Lockyer
jag kommer från
Examinator / Original Software.

Välkommen till min
Presentation.
Test Automation

Solving problems or simply creating different ones?
Test Automation - the accused in court?

- Recent UK BCS special interest group meeting
  - How many people used automated tools
    - 60%
  - Of those how many achieved deployment aims (TCO, reuse, etc.)
    - 5% !!

- Tool vendor diversification, acquisition and v-poor ROI

- TCO horror stories, organisations reverting to manual approach, many unsure about automating
Low adoption factors

- Complex, hard to learn
- Low productivity and high maintenance
- Costly to acquire comprehensive tools
- High TCO
Sub Main
    Dim Result(50) As Integer
    Dim i as Integer
    Dim NewResult as String
    StartBrowser "http://pandora.ple.blahblah.co.uk/action.pega?f1000=SIGNON&profile=test3", "WindowTag=WEBBrowser"
        Window SetContext, "WindowTag=WEBBrowser", ""
    Window WMaximize, "", ""
    delayfor 3000
    Browser SetFrame,"Type=HTMLFrame;HTMLId=_pegMainFrame",""
    Browser NewPage,"HTMLTitle=PANDORA - TEST1",""
    Result(1) = EditBoxVP (CompareProperties, "Type=EditBox;Name=f5p1", "VP=Object Properties;Wait=2,30")
    Result(2) = EditBoxVP (CompareProperties, "Type=EditBox;Name=f6p1", "VP=Object Properties2;Wait=2,30")
    Result(3) = EditBoxVP (CompareProperties, "Type=EditBox;Name=f8p1", "VP=Object Properties3;Wait=2,30")
    Result(4) = EditBoxVP (CompareProperties, "Type=EditBox;Name=f9p1", "VP=Object Properties4;Wait=2,30")
    Result(5) = PushButtonVP (CompareProperties, "Type=PushButton;Name=@ACTION=|ENTR", "VP=Object Properties5;Wait=2,30")
    Result(6) = PushButtonVP (CompareProperties, "Type=PushButton;Name=@ACTION=|APPR", "VP=Object Properties6;Wait=2,30")
    Result(7) = PushButtonVP (CompareProperties, "Type=PushButton;Name=@ACTION=|BACK", "VP=Object Properties7;Wait=2,30")
    For i = 1 to 3
        Select Case i
            Case 1
                InputKeys "robir"
                PushButton Click, "Type=PushButton;Name=@ACTION=|ENTR"
Easy to use?

```plaintext
web_browser_invoke (IE, "http://pandora.ple.blahblah.co.uk/action.pega?f1000=SIGNON&profile=test3");
win_max ("Browser Main Window_1");
for (i=1; i<4; i++){
    set_window("__pegMainFrame",5);
    if (i<2)
        result[0]=win_check_gui("__pegMainFrame", "list4.ckl", "gui4", 1);
#validate all gui objects on login screen
# __pegMainFrame - Check login with no password (loop 1), no login id (loop 2) and then with valid id and password
switch (i) {
    case 1:  
        edit_set("f5p1","robir");
        button_press("Enter");
        break;
    case 2: 
        password_edit_set("f6p1","cd2da24b7bbddcb9");
        button_press("Enter");
        break;
    case 3: 
        edit_set("f5p1","robir");
        password_edit_set("f6p1","cd2da24b7bbddcb9");
        button_press("Enter");
        win_check_bitmap("SESSION", "Img2", 32, 65, 118, 805, 427);
        break;
    if (i<3){
        set_window("Microsoft Internet Explorer", 1);
        result[0+i]=obj_check_gui("- Invalid signon(static)", "list1.ckl", "gui1", 1);
        set_window ("Microsoft Internet Explorer", 4);
        button_press ("OK");
    }
}
```

Automation Industry has let you down

- I apologize for
  - Hours spent creating scripts
  - Days spent fixing scripts
  - Weeks spent messing with code
  - Months lost from testing
  - Years stolen from business users
  - Thousands of bugs left undetected

- !!!!!!
So how can I fix it?

- Easy to learn
- Intelligence in the software – usability
- Self-maintaining
- Real benefits and results
- Cost effective and with an early return
- Wide applicability
- Interesting and rewarding to use
Intuitive - point and click
Productive
Easily Re-used
Easy to maintain
Things customers have told us

• Capital One web site BAU testing in ¼ of previous time.
• BP/Castrol save 90% time regression testing
• SoftLanding Systems save 75% of time is testing a new release
• HMV hit pre-Christmas deadline, saving 3 months
• Royal Bank – 6 weeks of UAT to 1 week – 83% saving in time
• HSBC save 50% of time in unit testing Coda changes
• Summit Holdings saved 55% in testing time
• Macmillan Cancer Relief saved 66% time & doubled coverage
• Skandia Life saved 90%+ in regression testing
How come?

- Automation success needs
  - Re-use
  - Protection of investment - high ROI
  - Productivity
    - Business gets what it needs sooner
  - Wider applicability

- Don’t throw away your hard work, or let it just fade away!
A world of change

• Change is a good thing
  • Improve
  • Compete
  • Develop
  • Test

• Testing = Dealing with change
Changes from all directions

• Drivers for change
  • Laws
  • Business processes
  • Competition
  • Interfaces
  • Technology

• Pressure
  • More quickly
  • Accuracy
  • Rapid implementation
Automation has to cope with change

- Timing
- New sequence
- Moved controls
- Layout
- Changing data

• = Agility
Rigid script based tools

• Is Automation faster?
  • Do you have to rebuild the road every trip?
• Bottleneck
  • High maintenance
  • Scripting language
  • Inflexibility
  • Technically complex
  • Changing data
• Shelfware!
Our Productivity Strategy

- No Scripting Language
  - Point-and-click, wizard driven
- Busy sense – no timing loops
- Interface channels
  - Tri-sense, Accessibility, Java Bridge
- Multiple application environments tested from one tool
- Data driven testing
  - Variable data, Pair-wise, Tracked fields
- Self Healing (adaptive)
Solutions

- **TestPlan**
  - Central management control of test plan and process. Defect tracking, integration with tests and results (manual or automated)

- **TestDrive**
  - Advanced interactive testing for browser based, GUI and Green Screen applications
  - Manual test support for improving the manual test process (integration with TestPlan)

- **TestBench for Oracle, DB2 (others to follow)**
  - Back end testing and test environment management capabilities

- **TestSmart**
  - Optimised coverage with test scenarios generated using pair-wise logic
Why not come join our community

- Allianz
- American Express
- Axa Insurance
- B & Q
- Burberry
- Capital One
- Cargill
- Circuit City Stores
- Coca Cola
- Computacenter
- DHL
- Exel
- FedEx
- Gucci
- Hitachi
- HMV
- HSBC
- IBM Global Services
- Manpower
- Nike
- Office Depot
- Pfizer
- Virgin Entertainment
- Zurich Insurance
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For more information come and see us at our stand
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- Internet Presentation
  - 27th Nov at 15:00
  - 29th Nov at 10:00