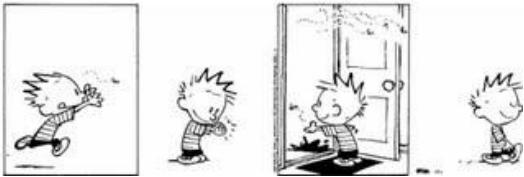


## Regression testing

Regression testing is a type of software testing that verifies that software previously developed and tested still performs correctly after it was changed or interfaced with other software.

**Regression:**  
"when you fix one bug, you introduce several newer bugs."



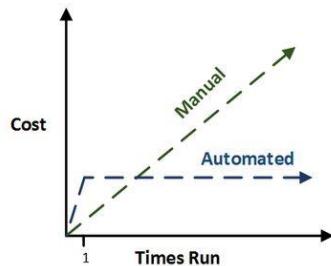
## Automated regression testing

Building an automated regression test is initially more time-consuming than executing the tests manually. But because the same tests have to be executed over and over again, it saves time if they are automated.

Automated tests can run fast and frequently.

Another advantage of automated regression testing over manual regression testing is that the repeatability and accuracy of the tests is guaranteed.

And automated tests can be integrated in the build process of the software under test, so that the tests can be executed automatically each time a new build of the software is generated.



## Automated regression testing of Blaise 5

For about a year now, the Blaise test team has been building automated regression tests for Blaise 5, using the test automation framework Ranorex.

Regression tests have already been implemented for

- RULES
- Windows data entry client
- ASPX data entry client
- Manipula
- APIs

The test team is currently working on regression tests for

- WPF data entry client
- Android App
- Audit trail

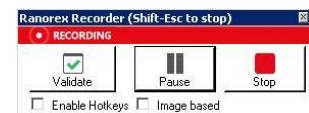
## Automated regression testing with Ranorex

Ranorex is a test automation framework for testing desktop, web-based and mobile applications

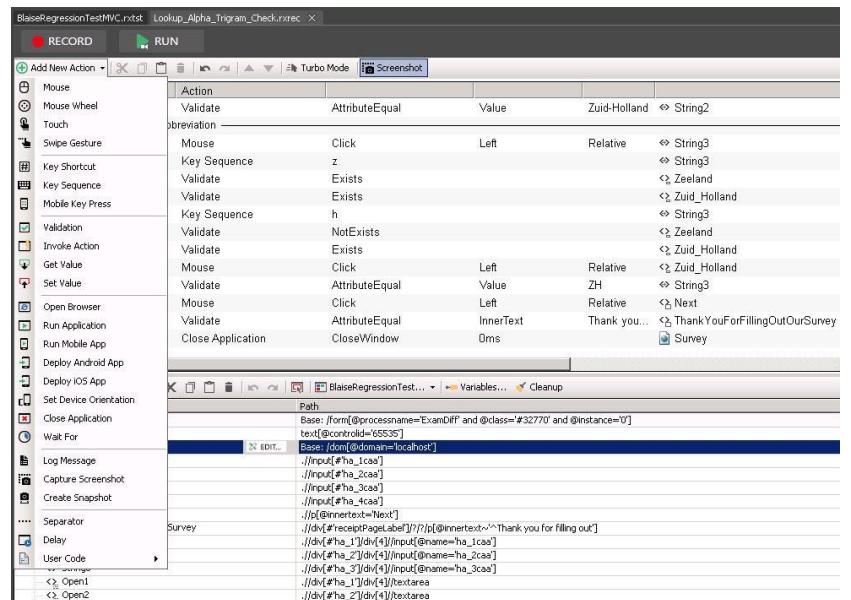


Automated test cases can be built by recording manually executed tests, adding pre-defined actions from a menu or by coding in C# or VB.NET.

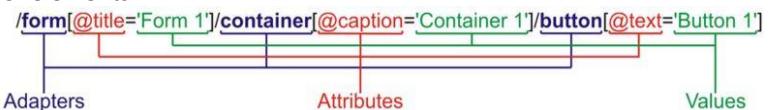
Recording is done with Ranorex Recorder, an object-based capture and replay functionality.



The recorded actions are transformed into C# and VB.NET code and are maintainable via the actions table editor.



Ranorex uses RanoreXPath, based on XPath, for identifying and filtering GUI elements.



When a regression test is executed, Ranorex creates a detailed test report.

### BlaiseRegressionTestDEP

Execution time: 2016-09-19 08:08:01  
Computer name: S0ABLO0006V  
Operating system: Windows Server 2008 R2 Service Pack 1 64bit  
Language: en-US  
Total errors: 2

Screen dimensions: 1920x1200  
Duration: 27.2m  
Total warnings: 19

65x Success  
3x Failed  
2x Blocked



In this test report one can zoom in on the failed test steps.

