

Software testing

Jumble

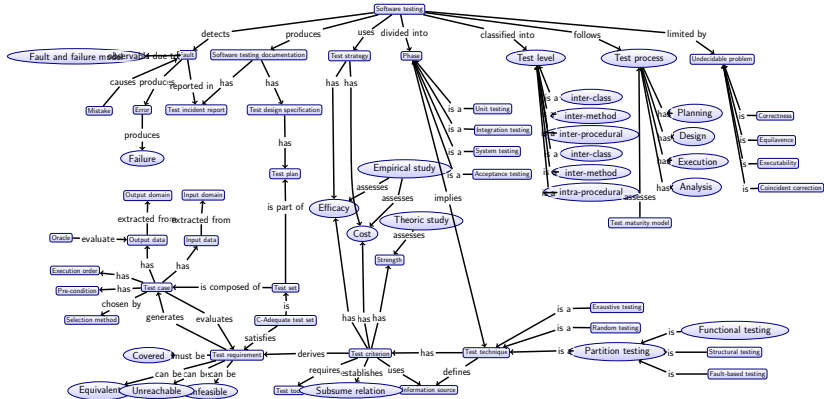
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February 2011

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Jumble is a mutation testing tool. It mutates Java bytecode and tests it with JUnit test cases and suites.

General information

- Available at <http://jumble.sourceforge.net>.



Features

- A single mutation is performed for each test case.
- The following mutation operators are supported:
 - conditionals,
 - binary arithmetic operations,
 - increments,
 - inline constants,
 - class pool constants,
 - return values,
 - switch statements.

Installation

1. Download Jumble from <http://jumble.sf.net> and unpack it.

Command line

- Jumble can be executed using the following command:
 - `java-jarjumble.jar<options><parameters>`

Command line options

- `--classpath`: Defines the classpath required to run the application under testing.
- Options related to mutation operators:
 - `--cpool`: Mutate constant pool entries.
 - `--increments`: Mutate increments.
 - `--inline-consts`: Mutate inline constants.
 - `--return-vals`: Mutate return values.
 - `--stores`: Mutate assignments.
 - `--switch`: Mutate switch cases

Command line arguments

- The first argument is the class to be tested (full qualified name of the class).
- The second argument is a set of classes with JUnit test cases.

Example

```
java -jar jumble.jar --classpath=. example/Mover example/MoverTest
```