

# TCASES

Black box Tester

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# Introduction

- ▣ Tcases is a tool for designing tests. It doesn't matter what kind of system you are testing. Nor does it matter what level of the system you are testing — unit, subsystem, or full system. You can use
- ▣ Tcases to design your tests in any of these situations.
- ▣ Then Tcases generates a minimal set of test cases that meets your requirements.

# Cont...

- ▣ Tcases is primarily a tool for blackbox test design.
- ▣ The concept of "coverage" is different from structural testing criteria such as line coverage, branch converges, etc. Instead, Tcases is guided by coverage of the input space of your system.
- ▣ “Input space”: the set of all (combinations of) input values that could possibly be applied.

# How Does It Work?

- ▣ Step-1: Create a system input definition, an XML document that defines your system as a set of functions. For each system function, the system input definition defines the variables that characterize the function input space.
- ▣ Step-2: Create a generator definition. That's another XML document that defines the coverage you want for each system function. The generator definition is optional. You can skip this step and still get a basic level of coverage.

# How Does It Work?

- ▣ Step-3: Run Tcases. Tcases is a Java program that you can run from the command line or from your favorite IDE. Tcases comes with built in support for running using a shell script or an ant target. You can also run Tcases with Maven using the Tcases Maven Plug-in.

# Installing The Tcases Distribution

- ▣ To get the command line version of Tcases, download the Tcases binary distribution file from the Maven Central Repository, using the following procedure:
- ▣ Step-1: Visit the Central Repository search page.
- ▣ [URL:http://search.maven.org/#search|ga|1|tcases-shell](http://search.maven.org/#search|ga|1|tcases-shell)
- ▣ Step-2: Search for "tcasesshell".

- ▣ Step-3:Download the most recent version for the artifact named "tcasesshell". You can choose to download this either as a ZIP file or a compressed tar file (tar.gz).