

The IRRI logo consists of the letters "IRRI" in a green, serif font. To the right of the text is a horizontal bar divided into two segments: a yellow segment on the left and a green segment on the right.

IRRI

Delphi Unit Testing: DUnit

Clarissa I. Pimentel

Specialist

Crop Research Informatics Laboratory

Intro

- Xtreme testing framework
- Modeled after JUnit
- Can be run as
 - ✓ GUI app
 - ✓ Console app

Approach to Testing

- Database/DLL level
 - ✓ Most practical
- Functional level
 - ✓ Recommended but implementing good test plan takes time
 - ✓ A framework in itself; lots of concepts/technologies to be learned; “mock objects”; test-driven approach
 - ✓ Modify existing codes to make it more testable
- GUI-based level
 - ✓ Limitation of DUnit; not fully supported
- Automated Testing
 - ✓ commercial testing tools

Advantages

- ❑ Inspires programmers to code in a modular, reusable, testable manner. Thus, codes become easy to maintain.
- ❑ Makes test cases to be rigorous over time
- ❑ Useful in refactoring; easy to point where the code breaks
- ❑ Good practice is to develop tests while coding or fixing a bug

Disadvantages

- ❑ Need to re-code if it's not easily testable
- ❑ Limited documentation available; need to refer to JUnit for the API

Links

- <http://dunit.sourceforge.net/>
- <http://delphixtreme.com/wordpress/?p=181>
- <http://sourceforge.net/projects/pascalmock/>
- <http://www.elvenware.com/charlie/conferences/2004/talks/UnitTests/FrameDUnitCore.html>
- <http://www.elvenware.com/charlie/conferences/2004/talks/MockTests/FrameMockMain.html>

The IRRI logo consists of the letters "IRRI" in a green, serif font. To the right of the text is a horizontal bar divided into two segments: a yellow segment on the left and a green segment on the right.

IRRI

Thank you

Clarissa I. Pimentel
Specialist
Crop Research Informatics Laboratory

The CIMMYT logo features a stylized white icon of a corn cob on the left, followed by the text "CIMMYT" in a white, sans-serif font. A small "MR" trademark symbol is located at the bottom right of the text.

 CIMMYT^{MR}