



Testing Object-Oriented Systems

Introduction

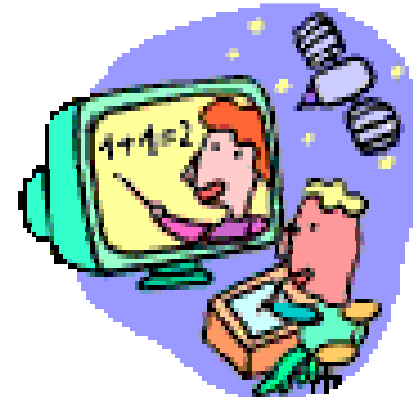
Marcello Bonsangue

Frank de Boer



Course Information

- Marcello Bonsangue (marcello@liacs.nl)
 - My office: 155a
- Frank de Boer (frb@cwi.nl)
- Lectures in room 402
- All important information on www.liacs.nl/~marcello/toos.xhtml
 - Slides
 - Schedule student presentations



Course Organization

- Overview and introduction to software testing
- Presentations on coverage criteria for software testing
- Weekly exercises
- Assignment: Design and implementation of a tool for unit testing environment
 - Unit testing
 - Written report
- Evaluation



Evaluation

- The course is **6 ECTS** worth



- **Grade**

- Presentation and participation** 50%
- Report** on own test environment 50%



Prerequisites

- Knowledge of **object-oriented** programming



Introduction to Software Testing



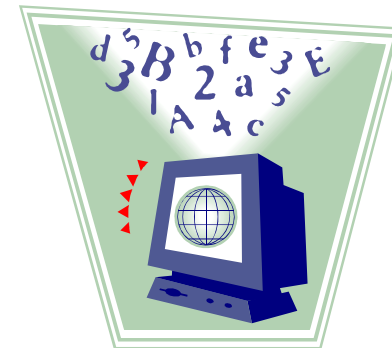
- Cambridge University Press, 2008.
- ISBN978-0-521-88038

The coverage part is based on this book.



Why Teaching Software Testing?

- All programmers **test** their software
- A **testing course** modernize computing curricula
- **Testing knowledge** is a crucial industrial needs
- **Testing** is a growing technology and research area
- Students become **better** computer scientists, programmers, and researchers



Final Advice

- TOOS is a **research-oriented** seminar. It requires:
 - participation and engagement
 - critical discourse
 - **research** and reading
 - analysis and writing
 - some effort

- Review the course slides

- Start the project work early

