

Change-based Test Selection

in the Presence of Developer Tests

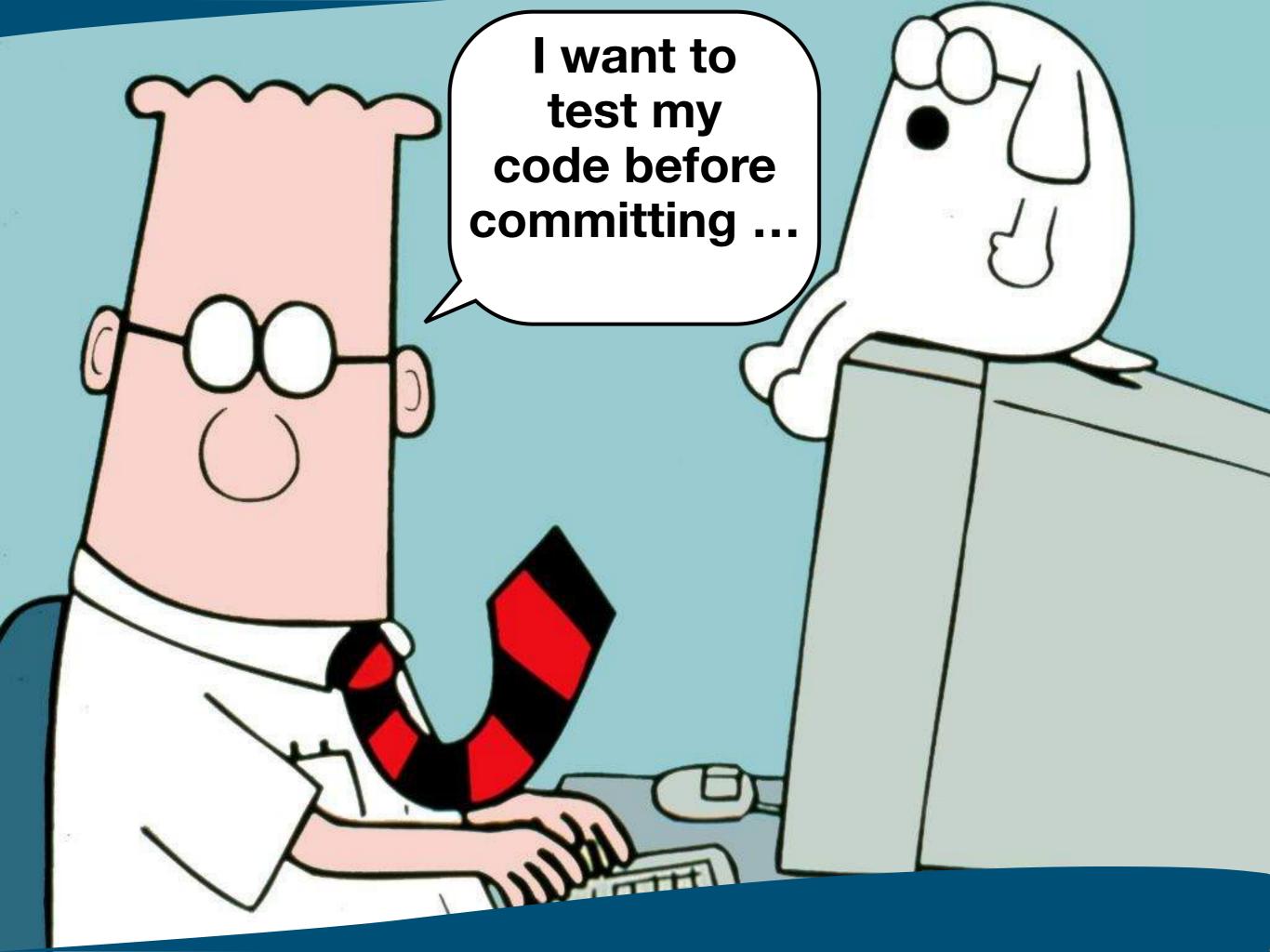
Presenter: Quinten David Soetens



Change-based Test Selection in the Presence of Developer Tests Quinten David Soetens, Serge Demeyer and Andy Zaidman Proceedings of 13th European Conference on Software Maintenance and Reengineering (CSMR13)





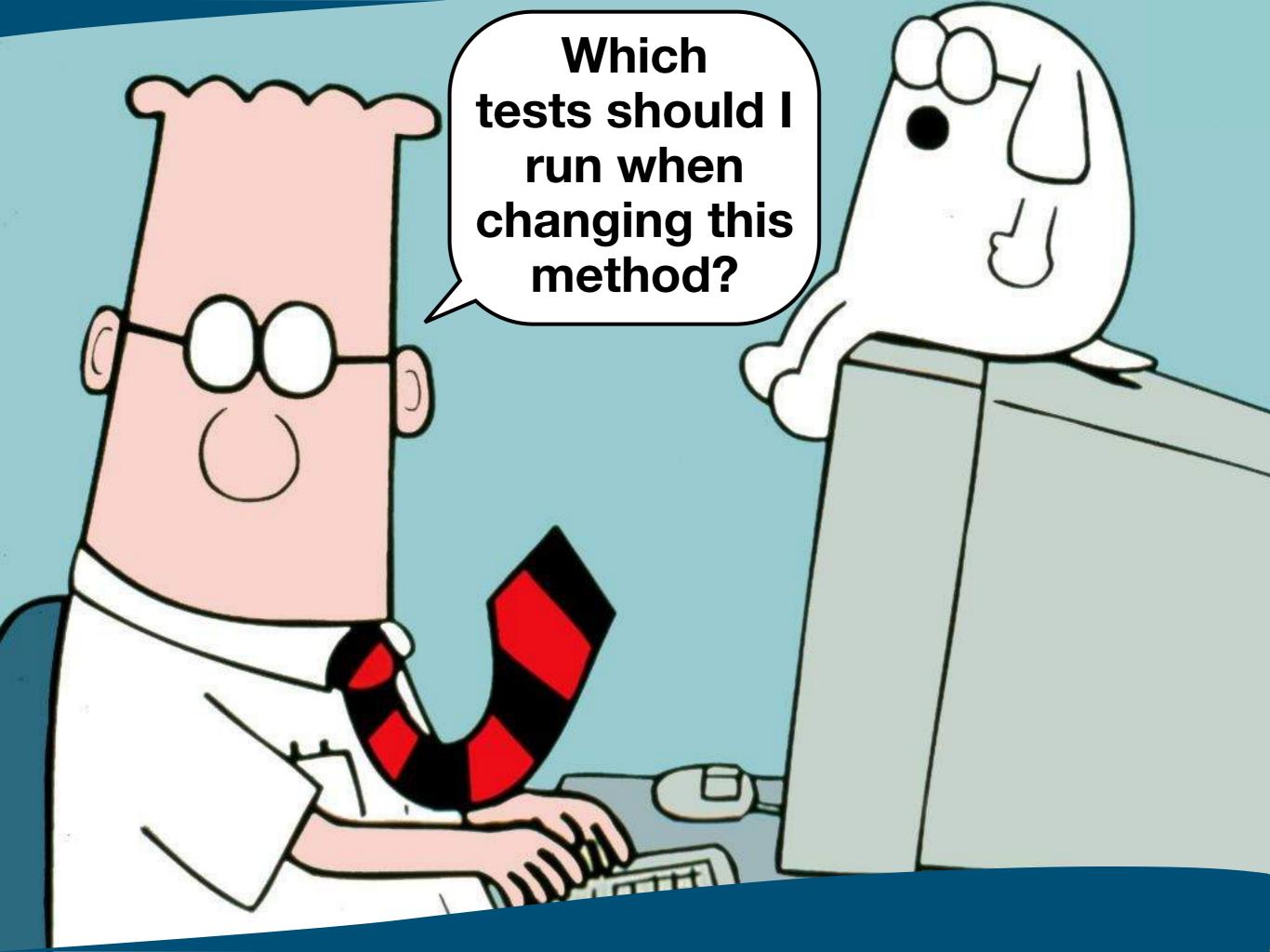




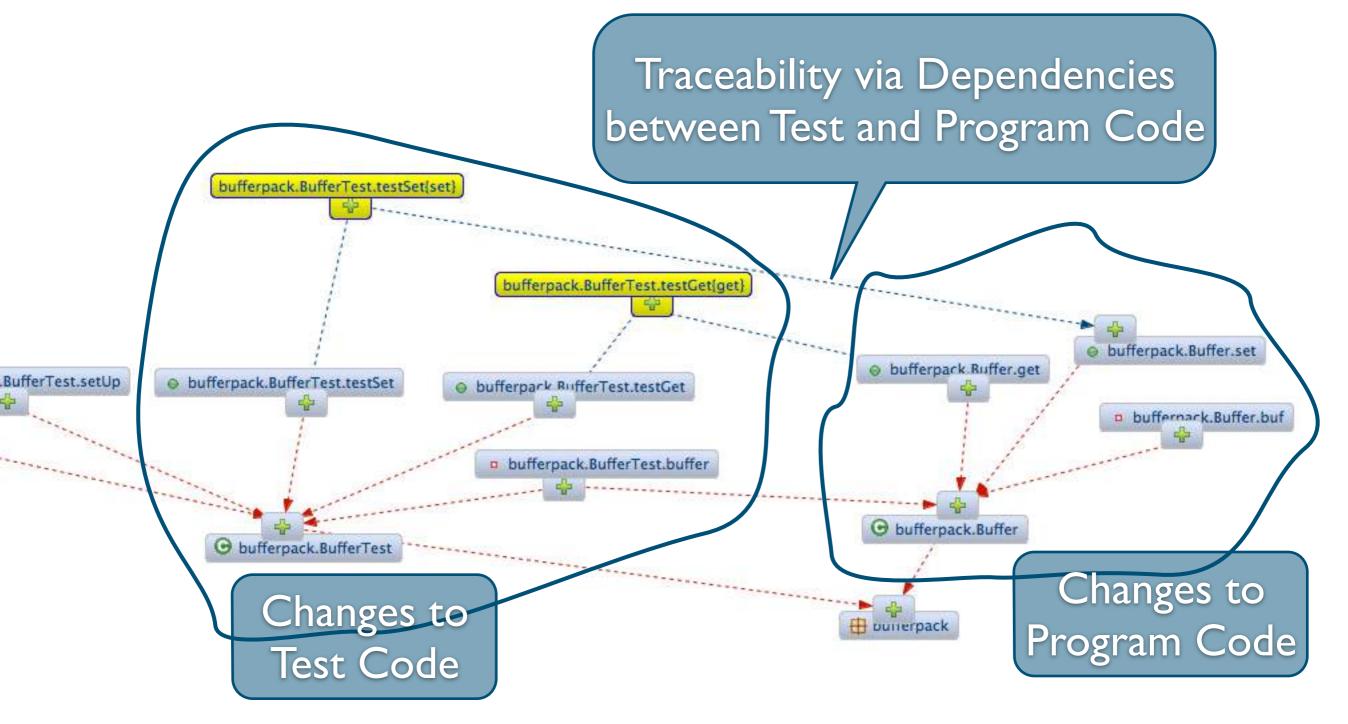


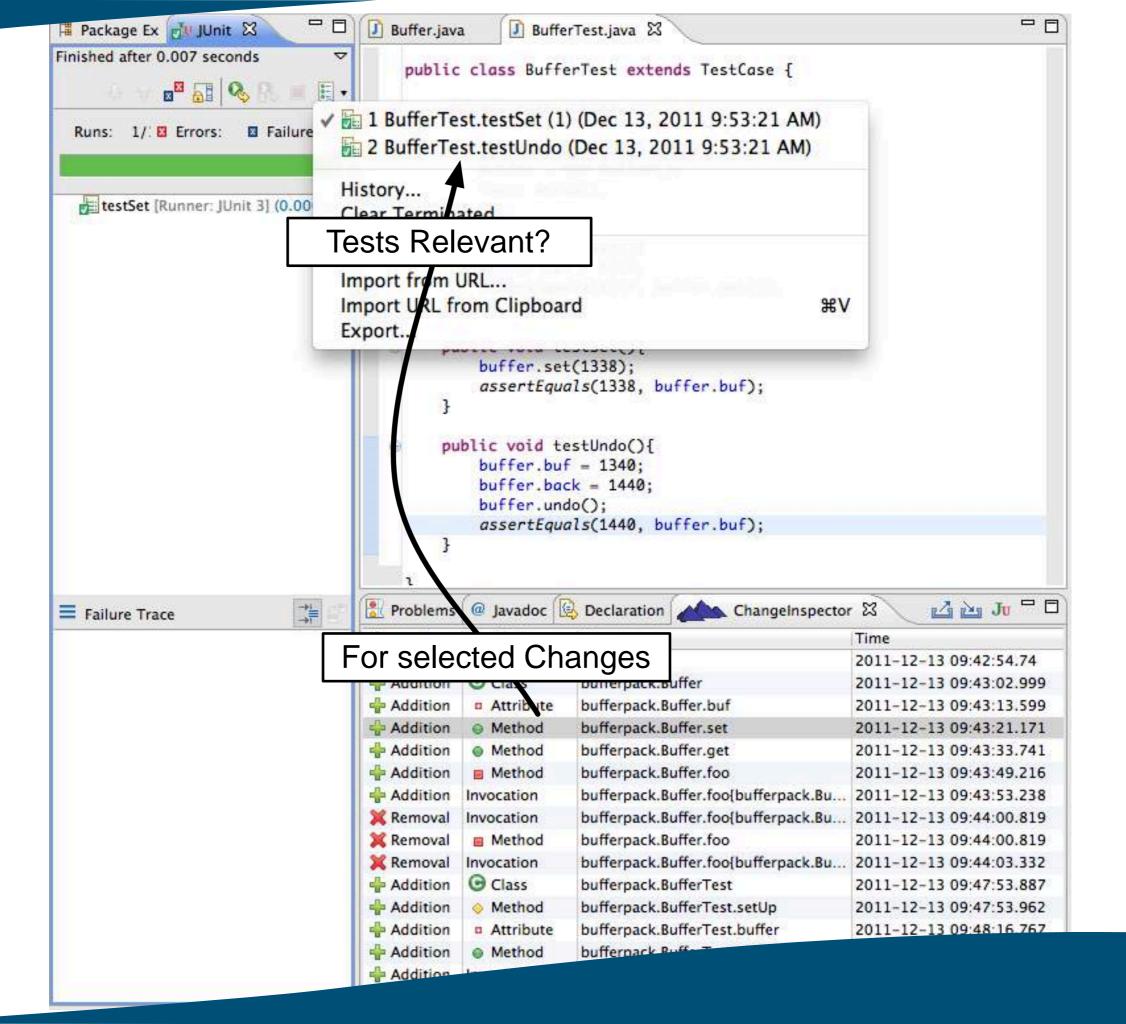
A 3 0 12:40 DELAYED KFURI B 0 1 DELAYED YORK 12:45 A 19 ELS 12:45 DELAYED B 13 12:50 A 2 6 JANEIRO DELAYED A 3 7 13:00 A 4 0 DELAYED 13:00 A 28 13:10 DELAYED A 3 4 13:15 A 2 2 DELAYED 13:20 B 0 9 197





First-class Change Objects



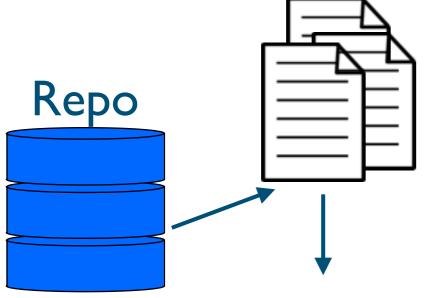


Experimental Setup

Revisions with failing tests

Subset of tests relevant for changes





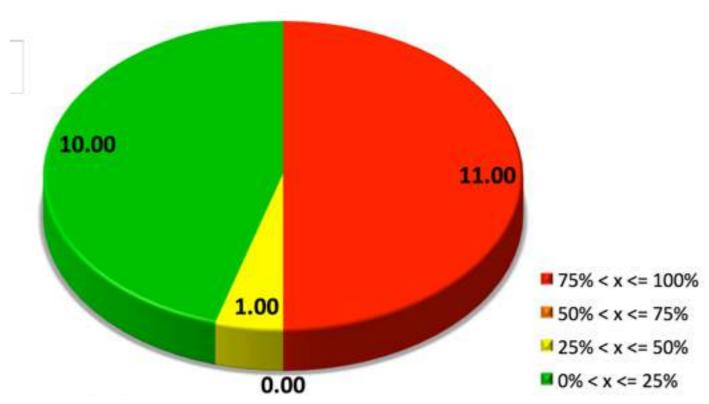
Changes made / in one such revision



Size of Reduced
Test Suite?

Failing tests in reduced test suite?

Wegen en Verkeer





Dynamic Binding taken into account



Dynamic
Binding NOT
taken into
account





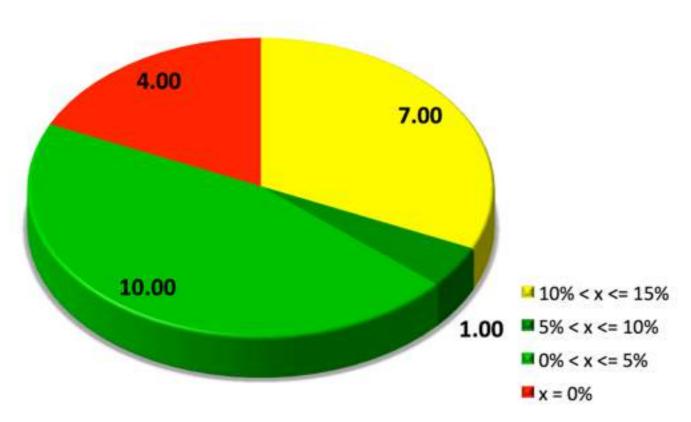


Dynamic Binding taken into account



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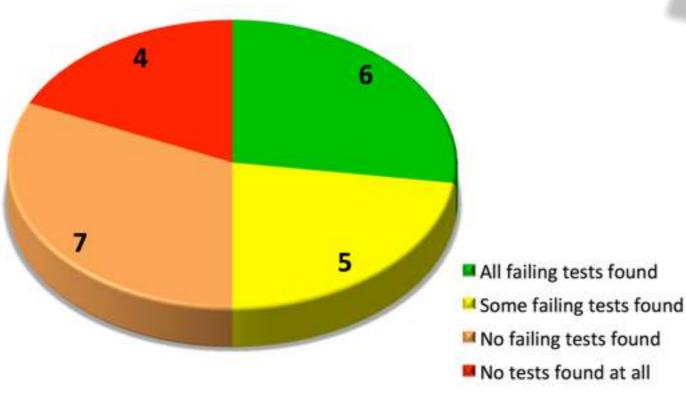


Dynamic Binding taken into account



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Binding NOT
taken into
account





Failing tests in reduced test suite?

Dynamic Binding taken into account



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Binding NOT
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