

Ansymo

Antwerp Systems & Software Modelling
University of Antwerp

On the Differences between Unit and Integration Testing in the TravisTorrent Dataset

MSR 2017 Mining challenge

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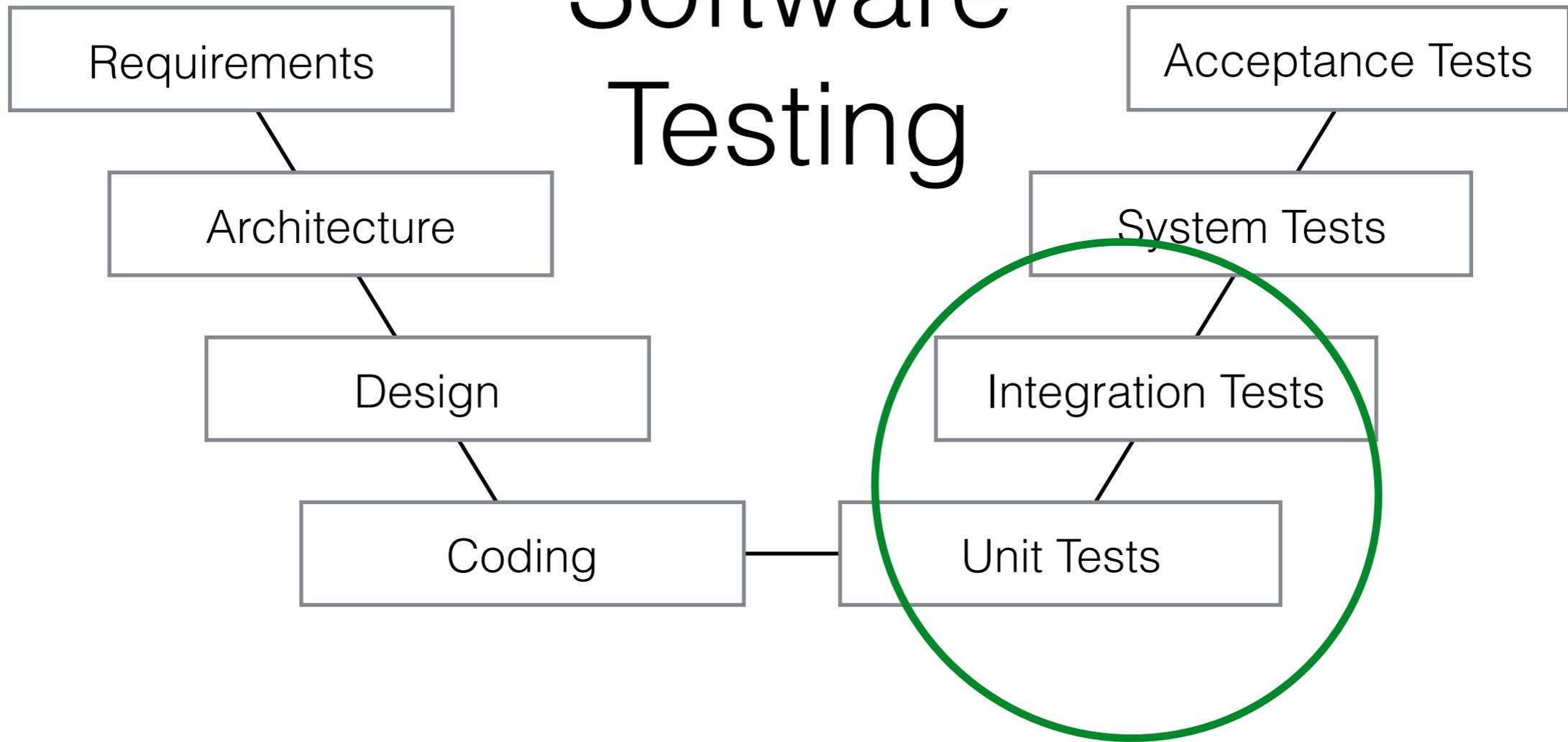
Dr. Alessandro
Murgia



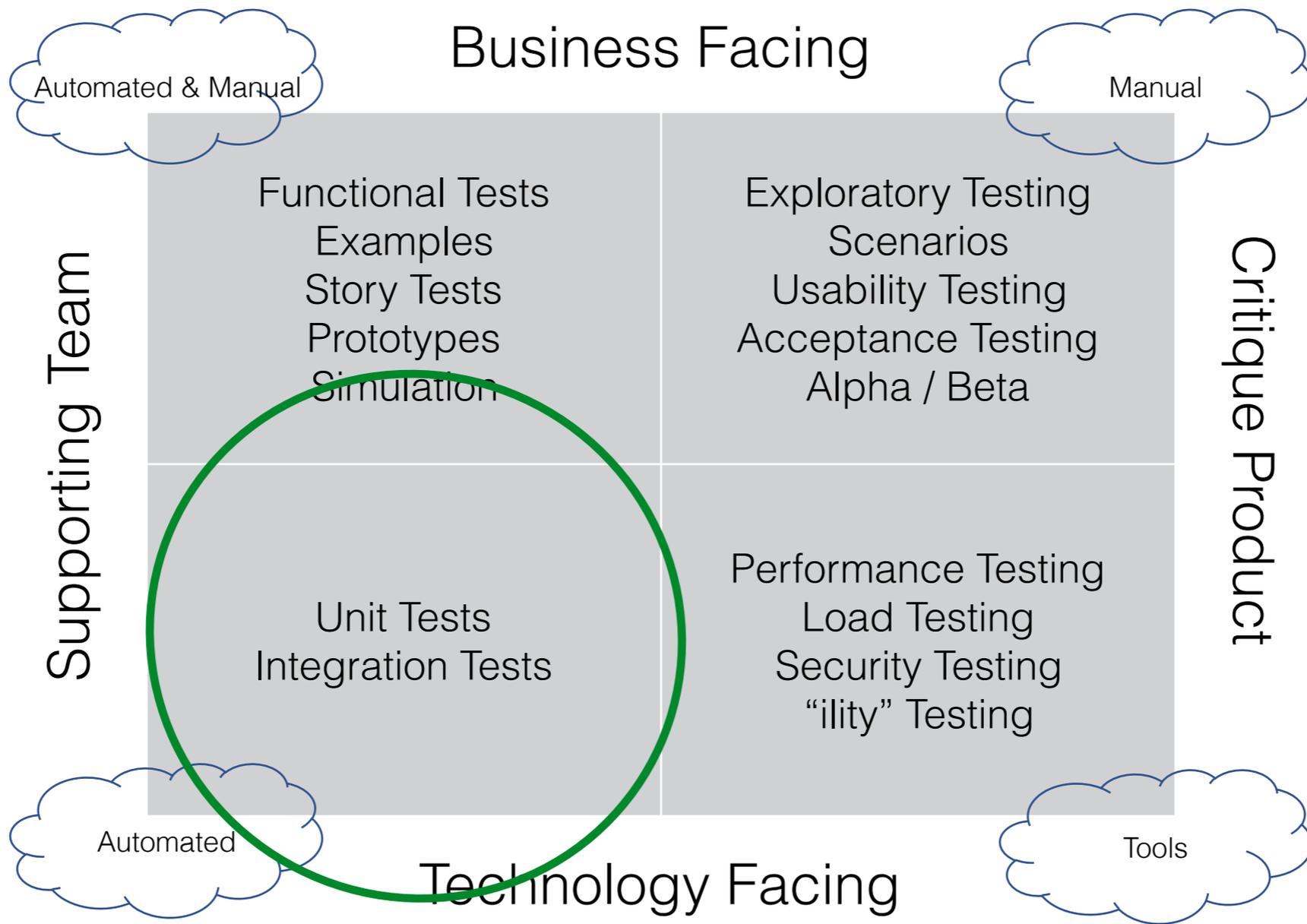
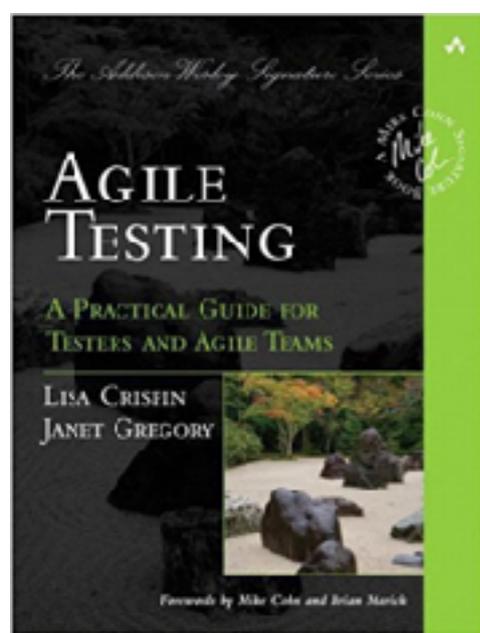
Prof. Serge
Demeyer



Software Testing

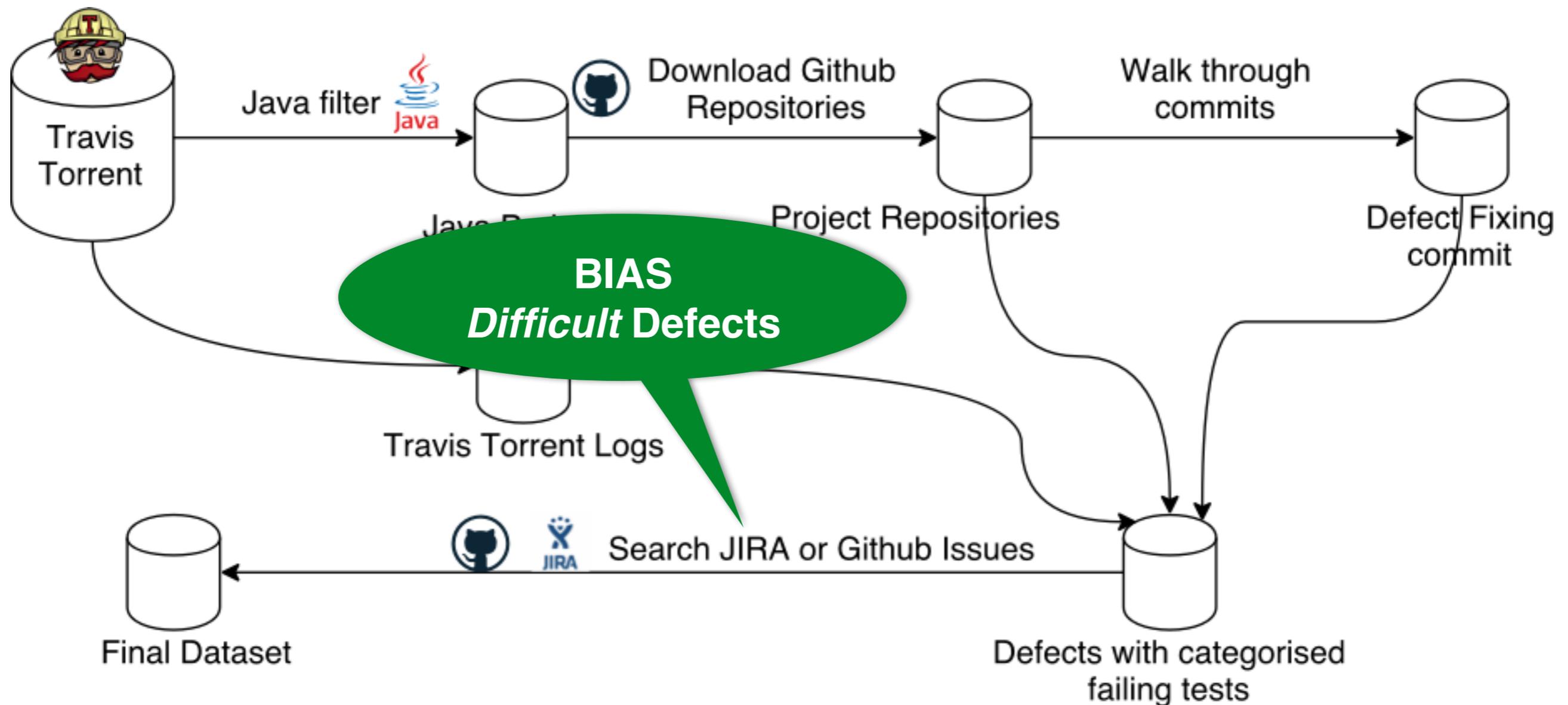


Unit Tests	vs	Integration Tests
early many fast little	lifecycle quantity fix time coordination	late fewer slower more

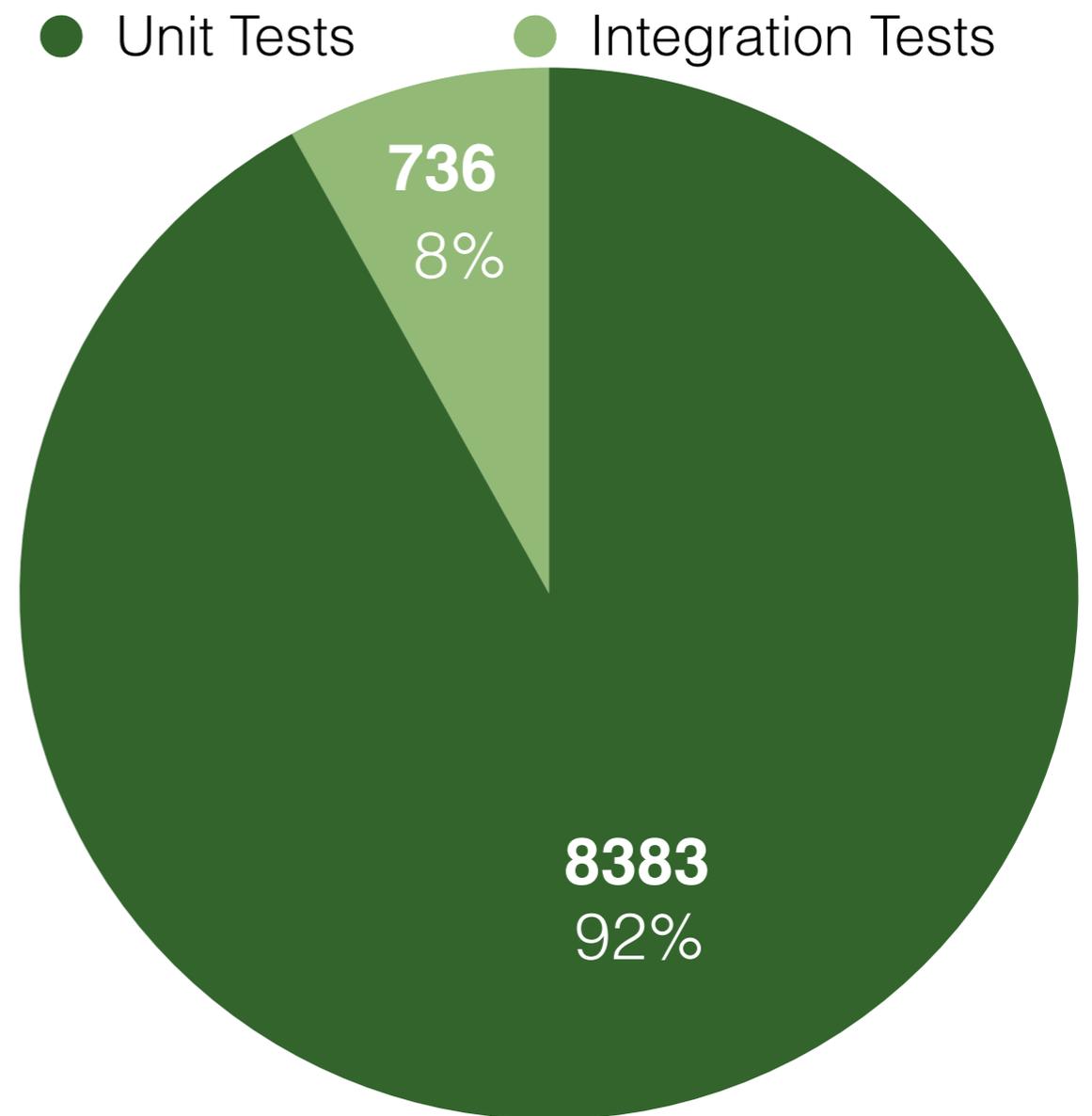
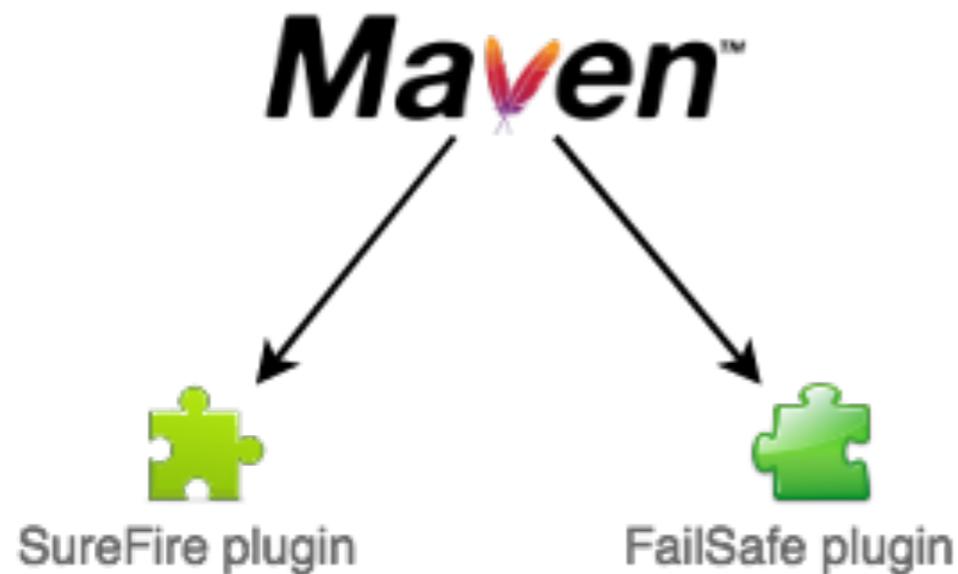


Unit Tests	vs	Integration Tests
???	lifecycle quantity fix time coordination	???

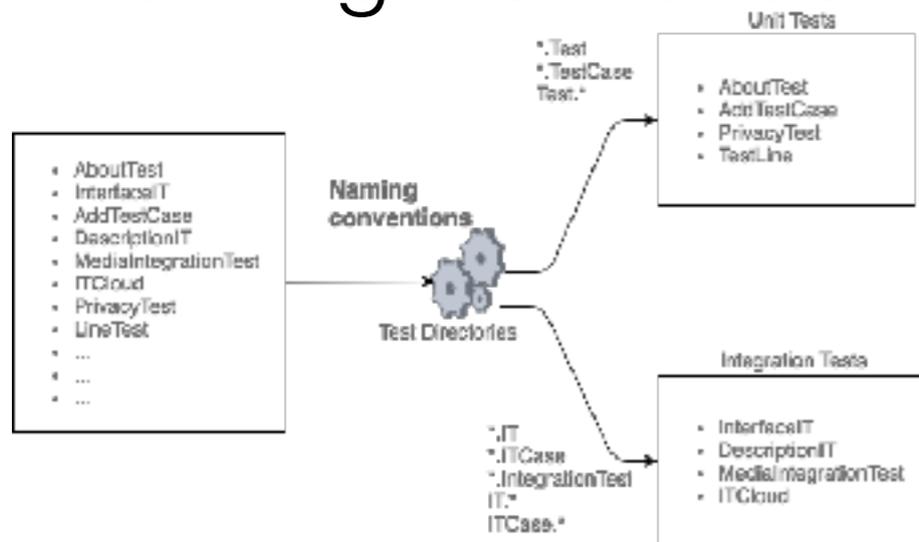
Manipulating TravisTorrent



Test Distribution



Naming Conventions





THOU SHALL DISTINGUISH UNIT TESTS FROM INTEGRATION TESTS

Unit Tests		Integration Tests
= more longer more	✓ Sample Size ✓ Statistically Significant lifecycle quantity fix time coordination	= less shorter less