Adding transaction handling to Unit Tests

The why, the how and the journey

1992 - 2012

VisualWorks & GemStone

Feature branches

Deployment was mostly a manual process

No unit tests

2012 - 2019

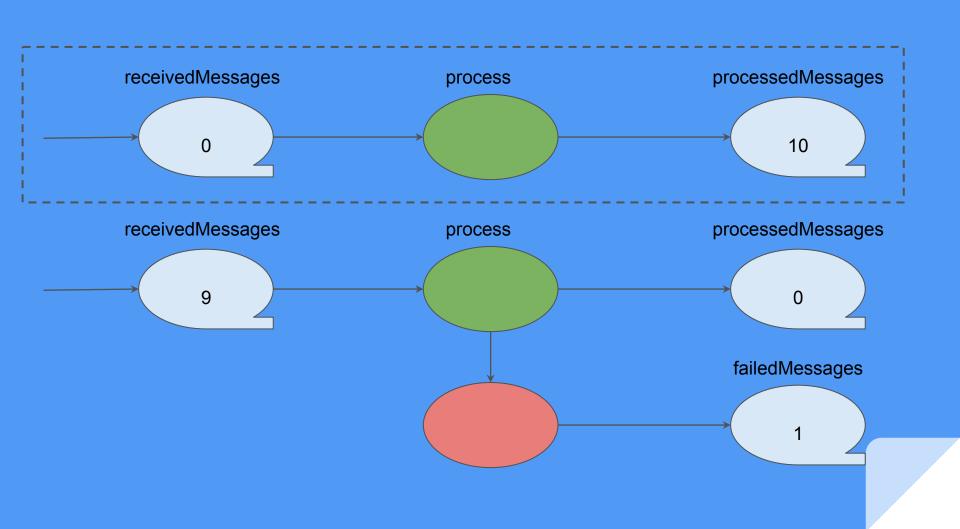
Trunk based development

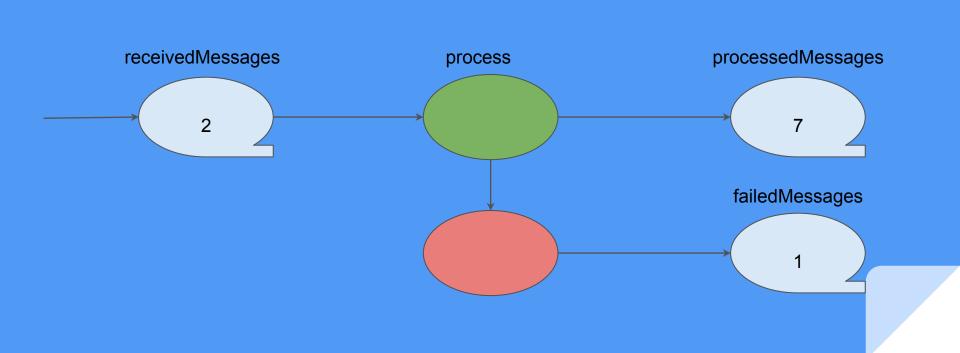
90 % Deployment automated

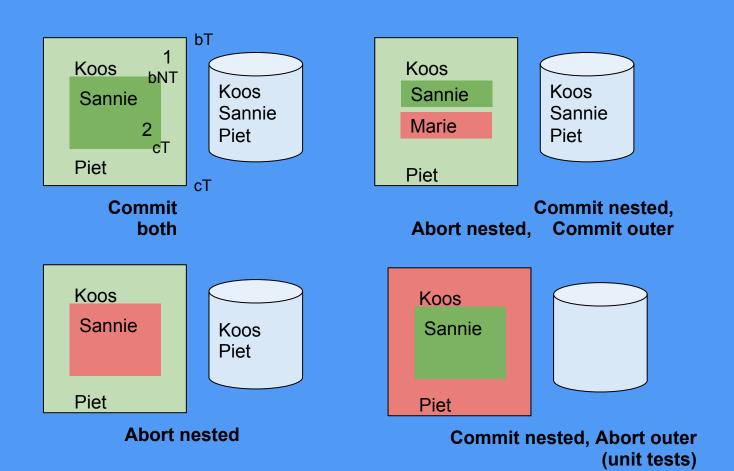
55000 methods

8000 unit tests

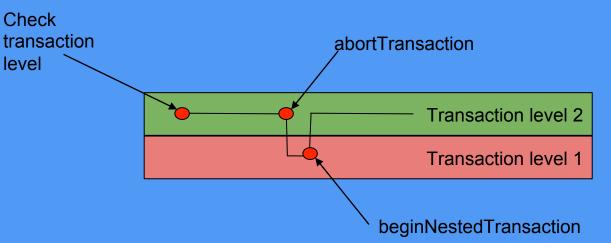
No transaction handling in unit tests



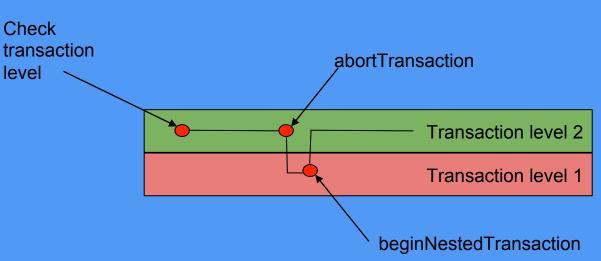




Auto mode



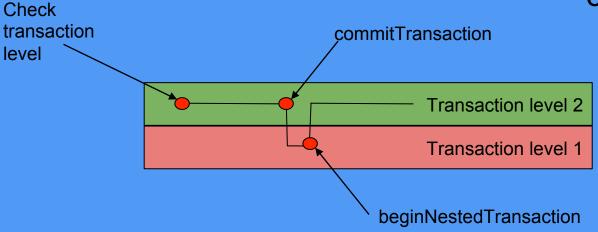
beginTransaction



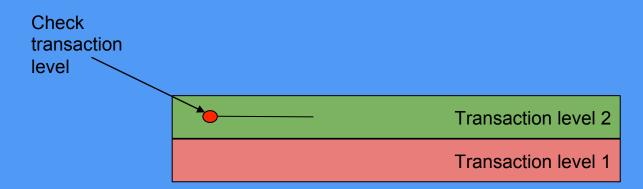
level

abortTransaction

commitTransaction

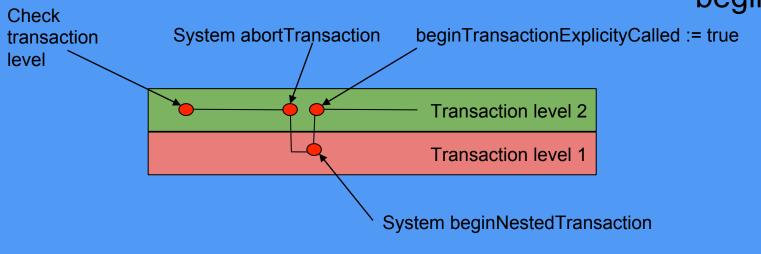


inTransaction



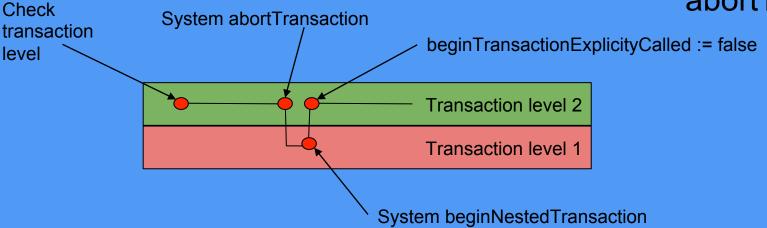
Manual mode

beginTransaction

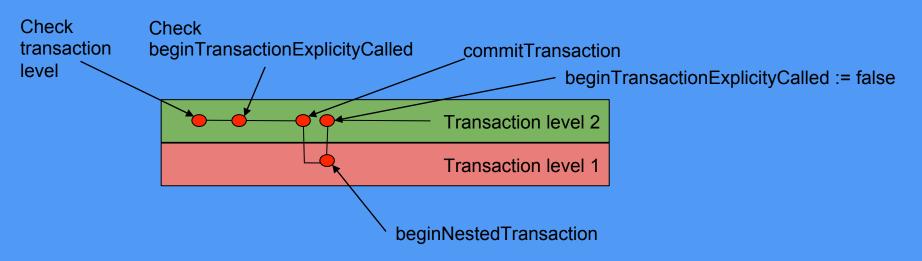


level

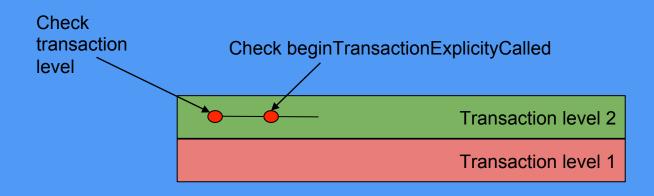




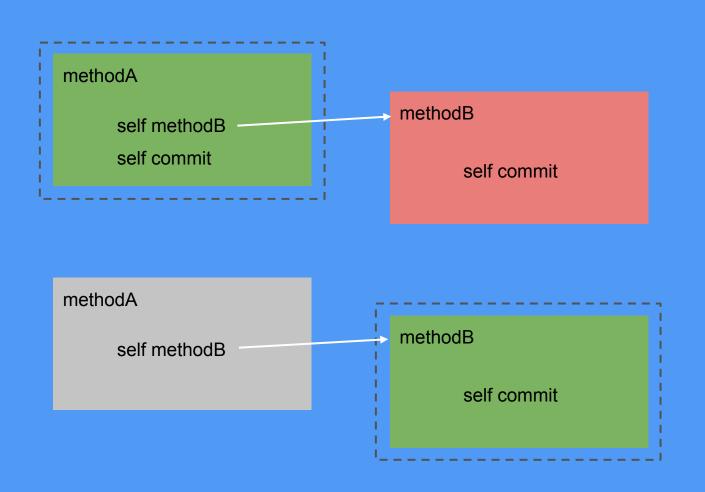
commitTransaction



inTransaction



Commit fails



Using framework

Override defaultTransactionMode

Commit test setup (especially when in manual mode)

Limitations

Canonical framework

Can't use nested transactions in our production code