

主要内容

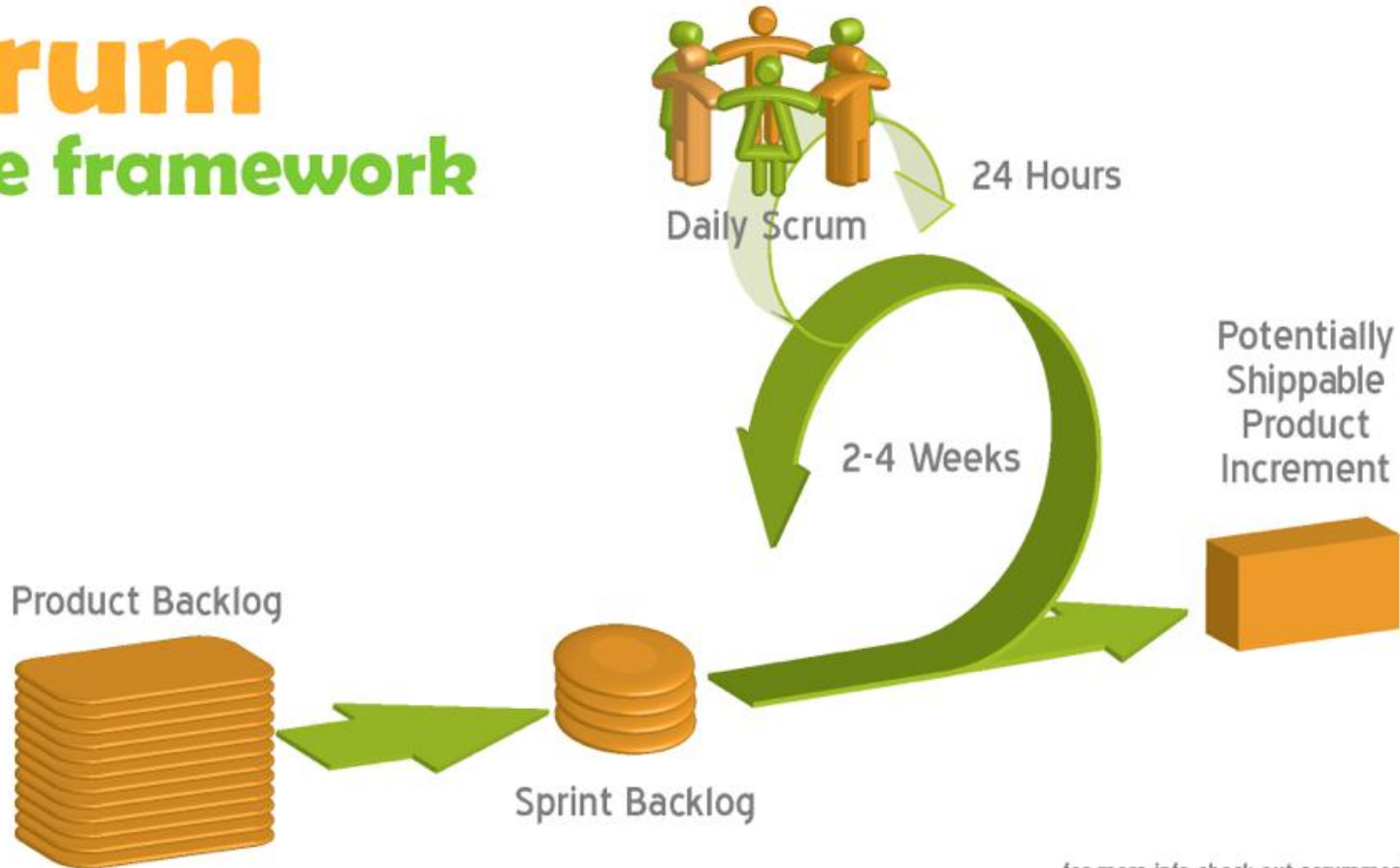
- 质量漫谈
- 敏捷开发 & 持续集成
- 自动化测试及工具
- Demo演示

软件质量漫谈

- 互联网产品质量决定因素
- 产品质量 VS 过程质量
- 软件过程质量
 - **Code Review**
 - **Unit Test**
 - **Continues Integration**
- 测试工作 VS 测试人员

敏捷之 SCRUM

Scrum the framework

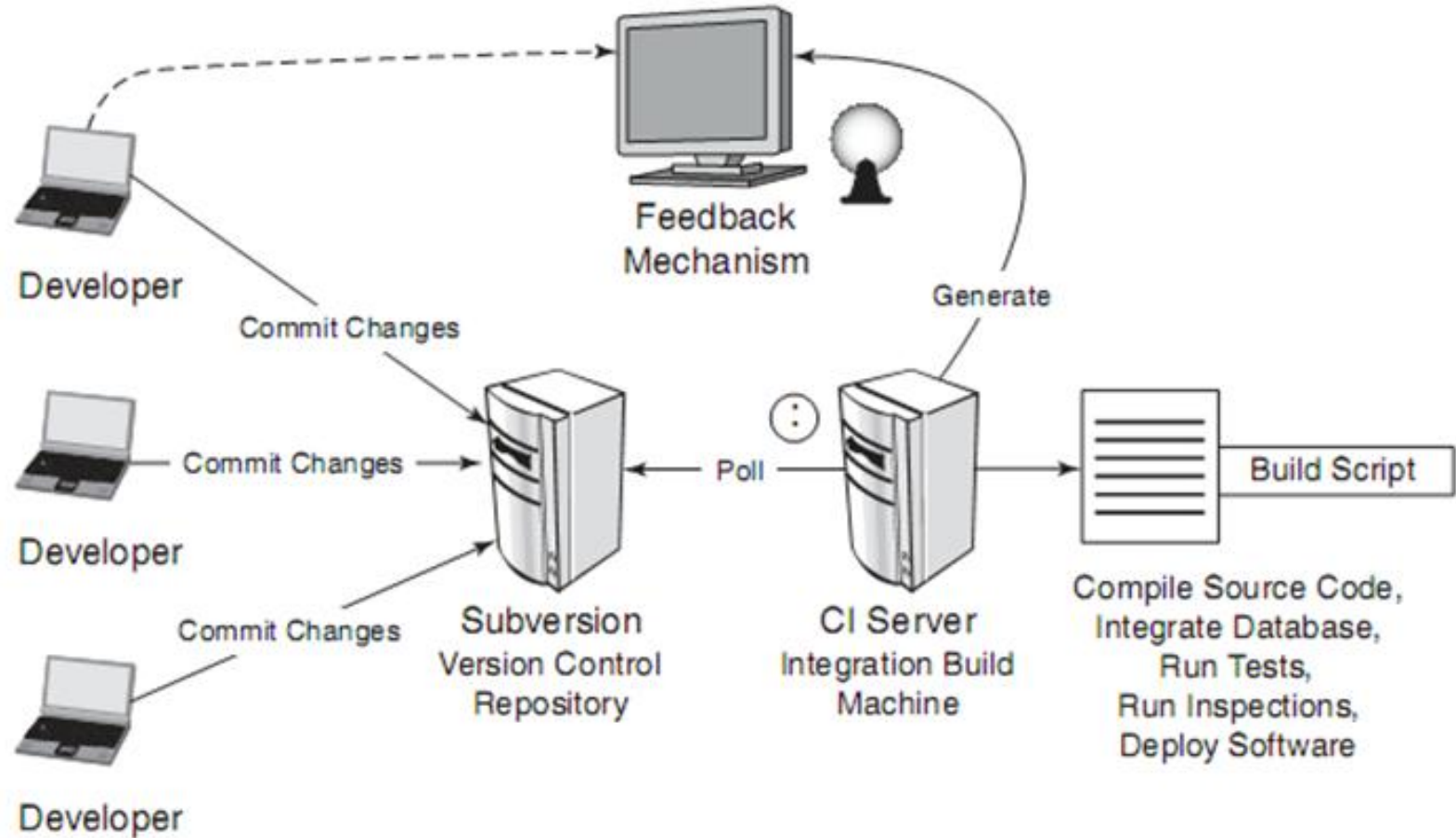


持续集成 -- CI

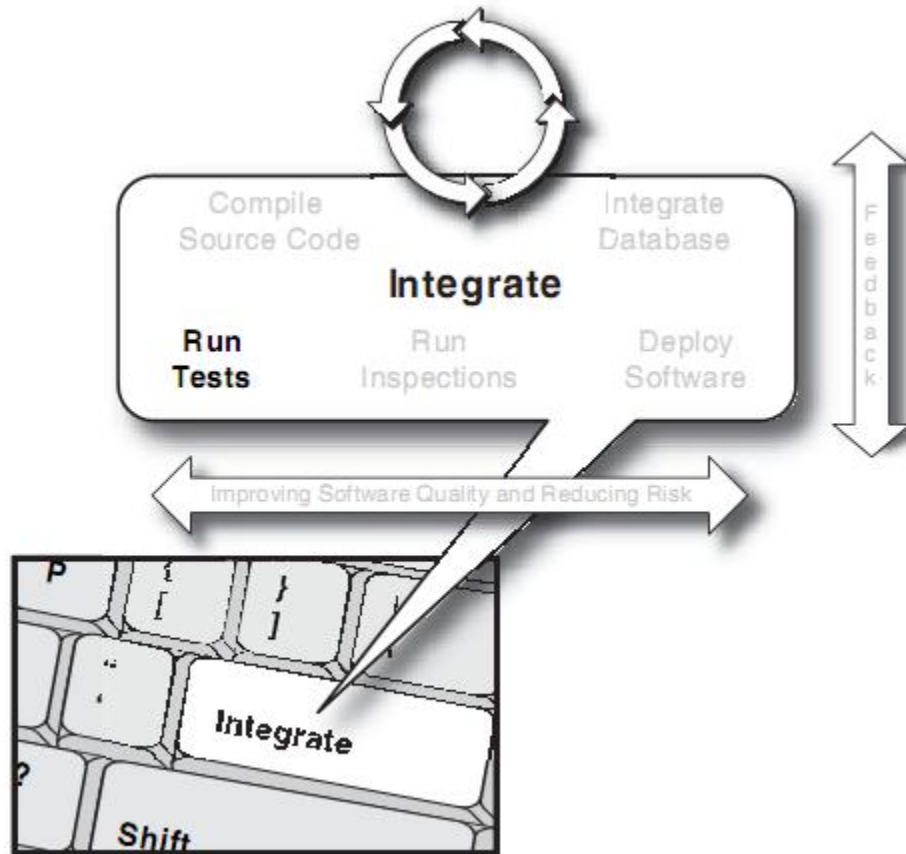
Continuous Integration (know as CI) is a software development practice where members of a team integrate their work frequently. Each integration is verified by an automated build (including test) to detect integration errors as quickly as possible.

from [Martin Fowler](#)

Continuous Integration Scenario



Continuous Test



Test Automation

- Test automation is a process of writing a computer program to do testing that would otherwise need to be done manually.

--From Wiki

- approaches
 - Unit Test
 - Code-driven (Api Level) testing
 - User Interface (Graphical/Command Tool) testing
- Future of automation

Test Code Framework

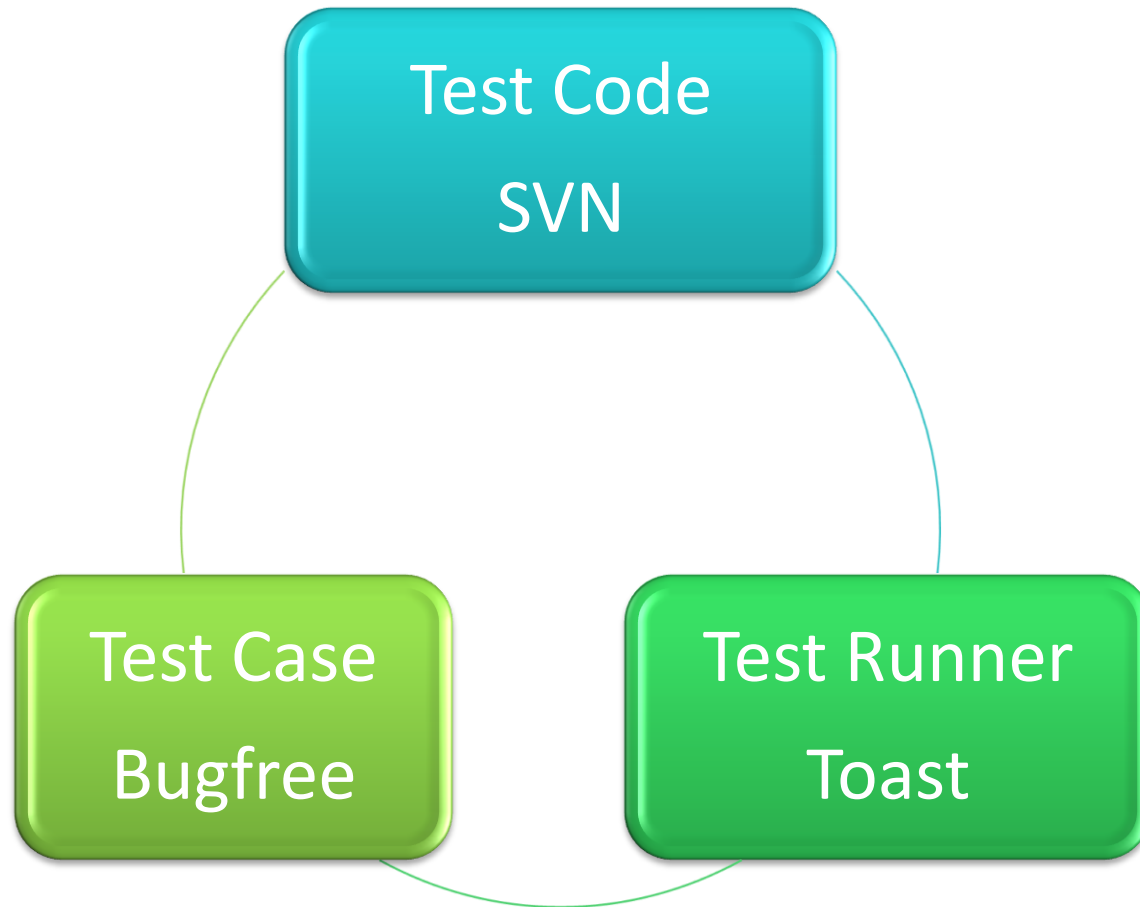
- API Level (XUnit)
 - Gtest/Cppunit/CpptestFramework
 - JUnit/MRUnit/PHPUnit
- User Interface Level (Black Box)
 - MMT/STFP (php script test framework)
 - Selenium/Ruby Watir
 - Custom Framework(Search Perl/CDN Java/Banner... etc)

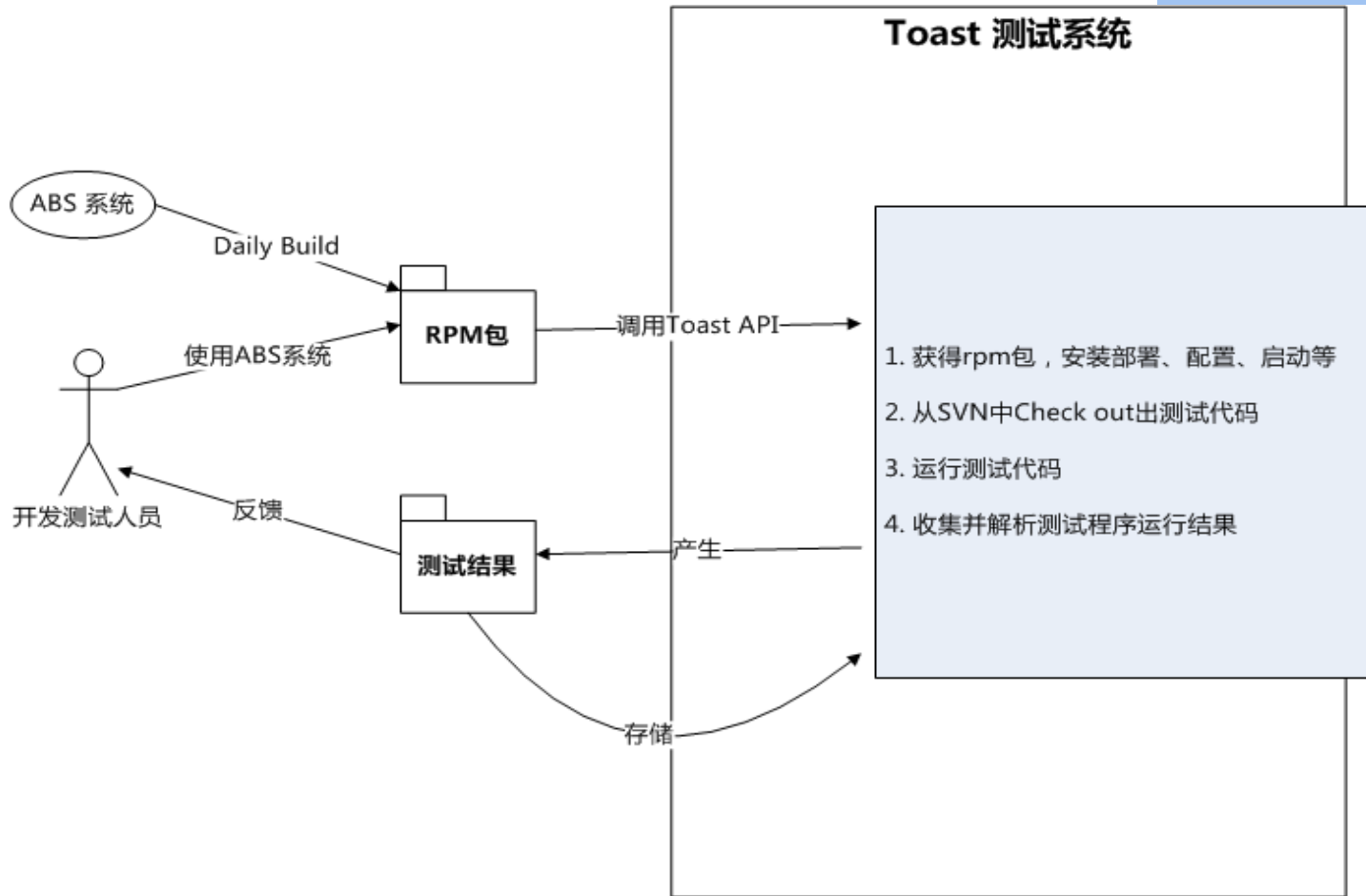
自动化测试调度工具 - TOAST

- Toast = Toast Open Automation System Test
- Base Goal
 - Make test **Run** easy, open and effective.
 - 测试执行调度工具
- Main Feature
 - Continues Integration Test
 - Distributed Testing
 - Reporting
 - Open API



Test Case/Code/Run





Toast Scenario: Regression Test

