Automated Testing with WebDriver/Selenium

Mikalai Alimenkou

http://xpinjection.com

Background

- Java Technical Lead/Scrum Master at Zoral Labs
- 8+ years in software development
- 6+ years of working by Agile methodologies
- Expert in Agile engineering practices
- Founder and coach at XP Injection (<u>http://xpinjection.com</u>)
- Organizer of Selenium Camp, JEEConf and XP Days Ukraine conferences

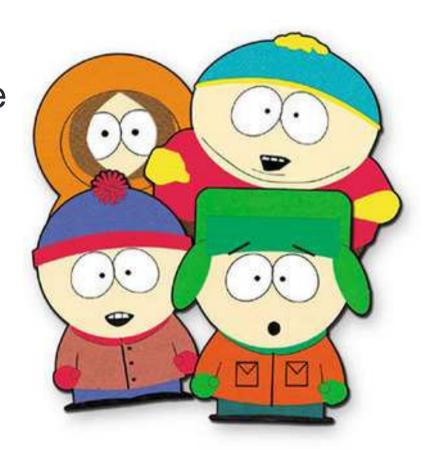
Simple Rules

- Cell phones on silent mode
 - If you need to talk, leave the class for a while
- Be active, participate
- Don't interrupt each other
 - Raise your hand if you want to talk
- No video recording
- We will have breaks
- Learn by asking questions
 - We promise to address all your questions



Introduction

- Name
- Project role
- Your Selenium experience
- Your expectations



Agenda

- 1. Introduction to Selenium
- 2. Selenium Concepts
- 3. Selenium IDE
- 4. WebDriver/Selenium RC
- Selenium Grid

7. General approaches

- √ AJAX testing
- ✓ Performance
- ✓ Selenium in Agile Team
- ✓ TDD with selenium
- Best Practices

8. Selenium Integration

- ✓ DSL Approach
- ✓ Tellurium
- √ FitNesse Integration
- √ StoryTestIQ
- Other Products

Why Testing?

Testing helps ...

- Verify implemented functionality
- Make sure that product has enough quality
- Find bugs and defects
- Find ideas for improvements
- Control correct work of existing functionality
- Checks if product is ready for usage

Why Automated?

Automation prevents ...

- Boring manual test cases execution
- Hidden issues in the application
- Low availability of testing results
- Human factor impact
- Time spent on regression testing
- Low frequency of tests running
- Bugs in new functionality

Why Selenium?

Selenium is ...

- Test automation tool for web applications
- Run directly in browser
- Support AJAX testing
- Free and open source
- Multibrowser
- Multiplatform
- Multilanguage
- Extendable
- Well documented
- Almost W3C standard...

Selenium Supports ...

































Selenium: Google

- 10+ products
- 50+ teams
- 50K+ test cases
- Internal Selenium farm
- Many contributors of Selenium framework

Why Selenium sucks?

Selenium is not ...

- Unit testing tool
- Load testing tool
- Record and play framework
- Performance testing tool
- Just another browser
- Browser differences cleaner
- Silver bullet ©

Selenium Product

- Selenium IDE
- WebDriver/Selenium RC
- Selenium Grid
- Bromine (not more supported)
- CubicTest (old but still live)

Questions & Answers

