



Automated Testing with WebDriver/Selenium

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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 (<http://xpoinjection.com>)
- 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
5. 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

