



Q7: Test automation for Eclipse-based applications

Eclipse Indigo DemoCamp

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Agenda



- Q7
 - Introduction
 - Components
 - Features
- Tests automation and Continuous Integration
- Live demo



Q7

Introducing *different* GUI
testing approach

Q7 – Introduction



- *Do we need another testing tool?*
- Handcrafted for Eclipse
 - IDE, RCP
 - GEF/GMF, SWT/JFace
- Runtime Intelligence
- State Management
- Eclipse Command Language (ECL)

Q7 – Features



- Test cases
 - Capture and playback
 - Scripting support
- Reuse and maintainability
- Contexts
 - Test initialization and finalization
 - Workbench, workspace, properties, group, debug
- Image recognition and OCR (*beta*)

Q7 – Components



- Q7 Platform
- Q7 Test Development Environment
- Q7 Runner

Continuous Integration



- Provided by Q7 Runner via:
 - Command line
 - Maven/Tycho plug-in
- Q7 Server
- JUnit-style reports
- Compatible with Bamboo, Hudson/Jenkins

■ Ant / Shell script

```
java -jar /eclipse/plugins/org.eclipse.equinox.launcher_{...}.jar \  
-application com.xored.q7.runner.headless \  
-data /Users/q7user/runner-example/runner-workspace/ \  
-aut /Users/q7user/runner-example/aut/ \  
-autWsPrefix /Users/q7user/runner-example/aut-ws- \  
-autConsolePrefix /Users/q7user/runner-example/aut-console- \  
-htmlReport /Users/q7user/runner-example/q7report.html \  
-junitReport /Users/q7user/runner-example/q7report.xml \  
-import "/tests/aut-tests"
```


■ Maven/Tycho

```
<project>
  ...
  <build>
    <plugins>
      <plugin>
        <groupId>com.xored.q7</groupId>
        <artifactId>q7-maven-plugin</artifactId>
        <version>1.1.1</version>
        <extensions>>true</extensions>
        <configuration>
          <aut>
            <groupId>com.xored.f4</groupId>
            <artifactId>com.xored.f4.product</artifactId>
          </aut>
        </configuration>
      </plugin>
    </plugins>
    ...
  </build>
</project>
```

- Eligible **not only** for developers, but also **users**
- Test **automation**
- Extensibility (Nebula, ECL, Contexts)
- **Tight** integration with Eclipse Platform
- Licensing
 - **Free** for open-source projects
 - Commercial license

- [http://wiki.eclipse.org/Automated Testing](http://wiki.eclipse.org/Automated_Testing)
- <http://help.xored.com/display/ECL/>
- <http://help.xored.com/display/ECL/>
- <http://help.xored.com/display/Q7/Continuous+Integration>



INTELLIGENT
INFORMATION
SYSTEMS
GROUP

Live demo

Questions?



- Thank you for your attendance!

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