

Continuous Integration with TeamCity

Adrian Ritchie BSc, MBCS

<http://www.gringod.com>

Guernsey Software Developer Forum

<http://www.developers.org.gg>

What is CI?

- Automated:
 - Compiling
 - Testing
 - Packaging
- Much more

Why Use CI?

- Less developer time testing
- Less worry about other developers
- Standardised build environment

What TeamCity Offers

- Software build automation and management
- Team communication for the above
- Code inspection and coverage analysis
- Platform agnostic
- Free professional version

Pulling It All Together



Source Control

- Many providers - Subversion, Perforce, VSS, CVS
- Build triggering rules
- Shared VCS sources
- Source labelling

Build Agents

- Different build environments
- Concurrent build
- Real-time results
- Build breakers tracking

Communication

- TeamCity web interface
- Notification - RSS, Email, IDE, Jabber
- External status HTML widget
- Take responsibility

Administration

- Web GUI
- Project configuration
- User permissions
- Build agent deployment & management

IDE Integration

- Build status
- Pre-checkin integration
- Broken tests

Extensions

- Open APIs
- Runners
 - Rake, MSBuild, etc.
- Post integration
 - TeamPiazza, GrowlNotifier
- Scripted build runners

Demonstration

Known Problems

- Microsoft Visual SourceSafe!

- Open bug database

<http://jetbrains.net/tracker/workspace/TW>

- Early Access Program

<http://jetbrains.net/confluence/display/TW/Download+Latest>

Alternatives

- **CruiseControl**
<http://cruisecontrol.sourceforge.net/>
- **CruiseControl.Net**
<http://ccnet.thoughtworks.com/>
- **CI Factory**
<http://www.cifactory.org>
- **Many more...**
http://en.wikipedia.org/wiki/Continuous_Integration

More Information

- Official website

<http://www.jetbrains.com/teamcity/>

- TeamCity Blog

<http://blogs.jetbrains.com/teamcity/>

- Documentation

<http://www.jetbrains.net/confluence/display/TCD3>

- TeamCity Plugins

<http://www.jetbrains.net/confluence/display/TW/TeamCity+Plugins>

Questions & Answers