

Reviewing the C++ toolbox

Identifying tools that support Agile development in C++

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Abstract

C++ is used in a wide variety of projects and developers using it have typically had to learn different editors, build and deployment tools, unit and acceptance test frameworks and specialist libraries to suit the organisation that runs the project.

It would benefit everyone if there were a ready made catalogue of effective tools for the various tasks that support Agile processes.

There are many more options in each category than we have time to explore ourselves and no forum for comparing experiences. It is difficult for the individual developer to make progress towards an ideal toolset.

This session allows participants share experiences with other developers.

(From “Grappling with C++”)

The risks of choice

- **Uninformed choice**
 - “What you know” vs “what is appropriate”
 - Unforeseen interactions
- **Lack of experience**
 - Developers on “learning curves”
- **Prolonging the “Storm”**

Reviewing the C++ toolbox Process

- A few of my experiences with tools followed by...
- ...a discussion of the categories of tools and what participants would like/expect from tools in each category.
- Following this groups will be formed to focus on specific categories of tool and to document the experiences of group members.
- The groups then present their findings for discussion in a plenary session.

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Detailed timetable

- 00:00-00:10 Introduction and agenda
- 00:10-00:20 My experiences
- 00:20-00:30 Discussion and formation of categories
- 00:30-00:35 Form groups
- 00:35-01:00 Groups document experiences
- 01:00-01:15 Groups present experiences
- 01:15-01:25 Summary and recommendations

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00:10-00:20 - My Experiences

- **Build systems**
 - make(s), MSDev, scons, bjam
- **Continuous Integration**
 - CruiseControl (*2nd hand: Anthill?*)
- **Unit test frameworks**
 - boost.Test, CppUnit, CppUnitLite
- **Integration test frameworks**
 - FitCpp, FitNesse
- **Refactoring Editors**
 - VisualSlickEdit, Eclipse/CDT/CUTE
- **Instrumentation**

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00:20-00:30

Discussion and formation of categories

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00:30-00:35

Form groups

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00:35-01:00

Groups document experiences

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01:00-01:15

Groups present experiences

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01:15-01:25

Summary and recommendations

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- **Thank you!**
- **I intend to write up these results:**
 - **So please email me with more details**
 - **Or leave a note of your email address on sheet**

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