Understanding how developers use the debugger

Presentation for SCG seminar
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Applications are complex; debugging is difficult

One tool used for debugging is the debugger

How to improve the debugger?
Understand how do developers use the debugger?
Demo
HTTP request

Event Recorder

Debugger

Announcements

Server

HTTP request
Summarization

Statistical analysis
In what context is a debugging action used the most?

Give recommendations what to do next
Are there some debugging patterns?
Redo Loop

Same position in the code earlier in the current session
Restore Session

Same context in a previous session
Find a categorization?
Debugging Actions
Are different types of bugs handled differently?

Custom debugger extensions
Do custom extensions help?

Compare efficiency with and without extension
Experienced vs inexperienced developers?

Learning from experienced developers
Debugging is difficult

Understand how developers use the debugger?

Provide better alternatives?

Many possible ways to continue?