

Mastering Debugging with Visual Studio

Creator

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Reference

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Presentation

Breakpoints

- Debugging with Breakpoints
 - Step Over
 - Step Into
 - Step Out
 - Continue
 - Set Next Statement
 - Show Next Statement
- Labeling in Break Point
- Conditional Breakpoint
- Import / Export Breakpoint
- Breakpoint Hit Count
- Breakpoint When Hit
- Breakpoint Filter

Data Tip

- Pin Inspect Value During Debugging
- Drag-Drop Pin Data Tip
- Adding Comments
- Last Session Debugging Value
- Import Export Data Tips
- Change Value Using Data Tips
- Clear Data Tips

Watch Windows

- Locals
- Autos

- Watch
 - Creating Object ID

Immediate Window

Call Stack

Debugging Multithreaded Program (optional)

- Exploring Threads Window
- Flag Just My Code
- Break Point Filter - Multithread Debugging
- Debugging Parallel Program
- Parallel Task and Parallel Stacks

Debugging with IntelliTrace (optional - speak to)

- Overview
- Mapping with IntelliTrace
- Filter IntelliTrace Data

Useful Shortcut Keys for VS Debugging

Shortcut Keys	Descriptions
Ctrl-Alt-V, A	Displays the Auto window
Ctrl-Alt-B	Displays the Breakpoints dialog
Ctrl-Alt-C	Displays the Call Stack
Ctrl-Shift-F9	Clears all of the breakpoints in the project
Ctrl-F9	Enables or disables the breakpoint on the current line of code
Ctrl-Alt-E	Displays the Exceptions dialog
Ctrl-Alt-I	Displays the Immediate window
Ctrl-Alt-V, L	Displays the Locals window
Ctrl-Alt-Q	Displays the Quick Watch dialog
Ctrl-Shift-F5	Terminates the current debugging session, rebuilds if necessary, and starts a new debugging session.
Ctrl-F10	Starts or resumes execution of your code and then halts execution when it
Ctrl-Shift-F10	Sets the execution point to the line of code you choose

Shortcut Keys	Descriptions
Alt-NUM *	Highlights the next statement
F5	If not currently debugging, this runs the startup project or projects and attaches the debugger.
Ctrl-F5	Runs the code without invoking the debugger
F11	Step Into
Shift-F11	Executes the remaining lines out from procedure
F10	Executes the next line of code but does not step into any function calls
Shift-F5	Available in break and run modes, this terminates the debugging session
Ctrl-Alt-H	Displays the Threads window to view all of the threads for the current
F9	Sets or removes a breakpoint at the current line
Ctrl-Alt-W, 1	Displays the Watch 1 window to view the values of variables or watch expressions
Ctrl-Alt-P	Displays the Processes dialog, which allows you to attach or detach the debugger to one or more running processes
Ctrl-D,V	IntelliTrace Event