

# Debugging PowerShell in VS Code

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## UNDERSTANDING DEBUGGING



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## Why Should You Invest in Learning Debugging?

You spend a lot of time debugging

There will always be bugs in your code

Poor debugging skills lowers your productivity

Being a good debugger makes you a better developer

Debugging is sometimes the only way to validate your expectations



# Debugging:

The process of finding and resolving defects or problems within a program that prevent correct operation of computer software or a system.

*-Wikipedia, The Free Encyclopedia*



# The Process of Debugging



Build a mental model of expected behavior



Identify & analyze the bug



Correct the code



Validate the code change



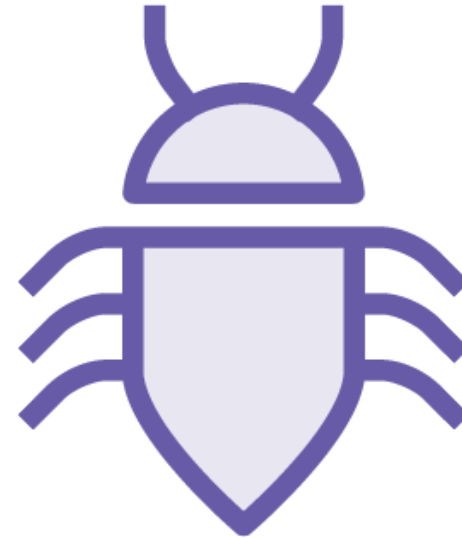
# When Is Debugging Useful?



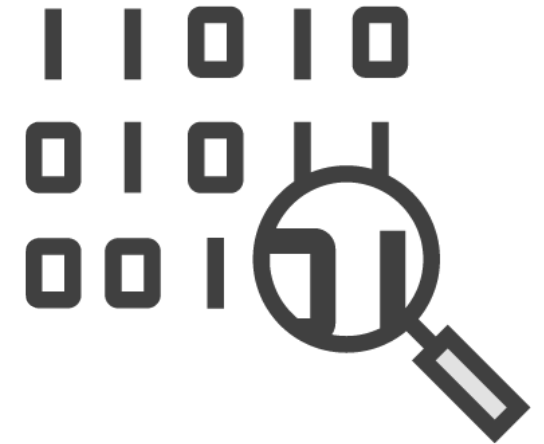
Writing Code



Get an Error



Unexpected  
Behavior (Bug)



Troubleshooting

# Debugging Methods



Visual Debugging &  
IntelliSense



System Output



Debugger Programs

# Demo



## Demonstrate Debugging Methods

- Visual debugging
- Adding system output
- Using a debugging program



# Summary



Why you should learn debugging

What debugging is

The process of debugging

When you should debug

Debugging methods

