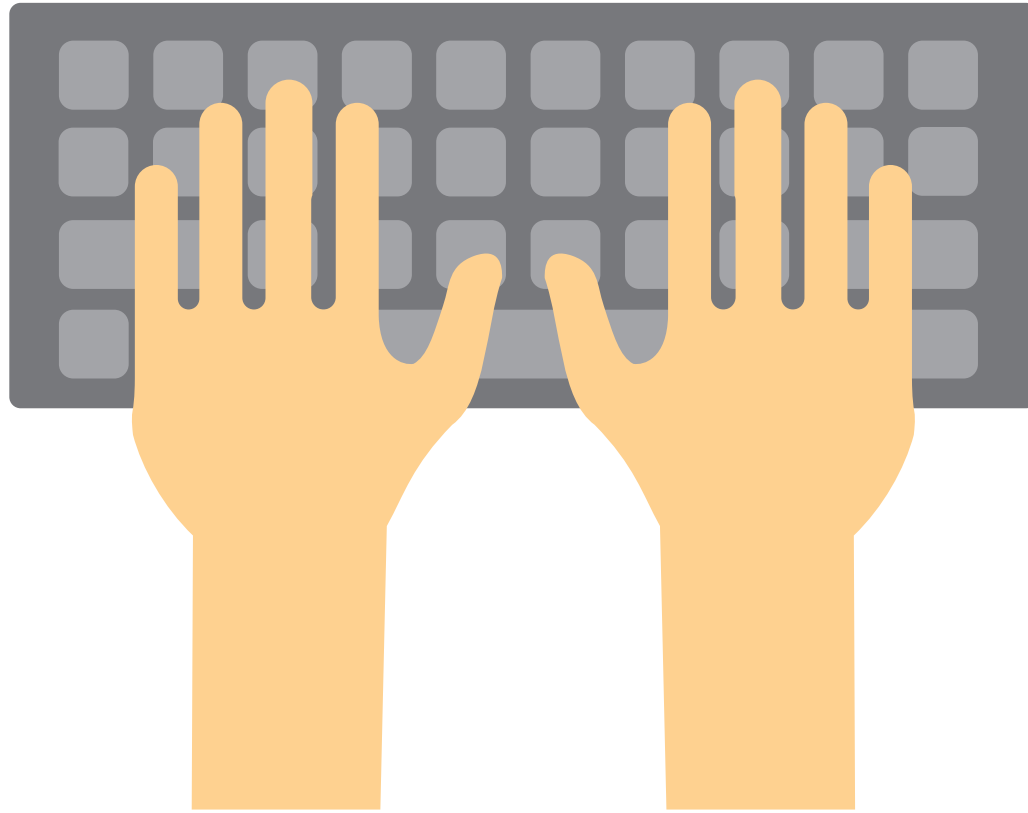# Debugging Techniques

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Typos and Fat Fingers

Simplify, Simplify, Simplify

Simplification

Removing any places where the script could go wrong

Limit it down to just the snippet that's causing the problem

The Mysteriously Named Home Folders
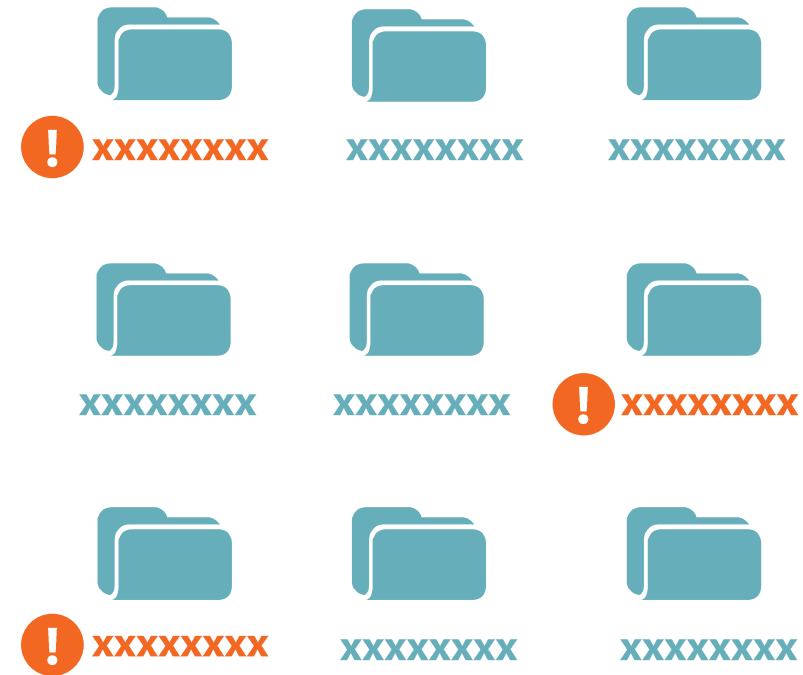
Reading a CSV file full of employee names

Creating the username

Creating a folder

Some strange looking folder names
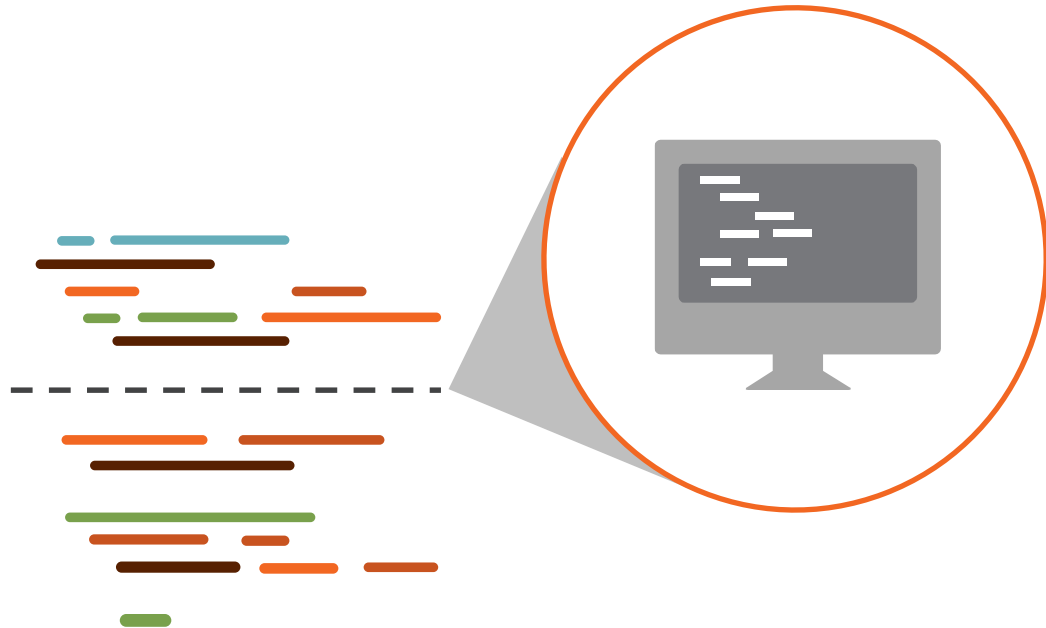
Halting Script Execution with Breakpoints

A typical script's runtime is probably only a few seconds

Need to pause the script midstream to check if it is working correctly

Although breakpoints are common with software developers with long codes, scripters too need to have breakpoints if the script becomes long

What is a Breakpoint?

A breakpoint is a great way to test scripts before you allow them to run so you can be sure they run successfully and don't cause any major harm

How to Create Breakpoints

Set-PSBreakPoint cmdlet

Write-Debug

Takeaways

Remove as many variables as possible from the equation

Use breakpoints frequently

Summary

Pick out typos and fat-finger incidents

Remove complexity

Using breakpoints