

TroubleSniper

By Jonathan Castle

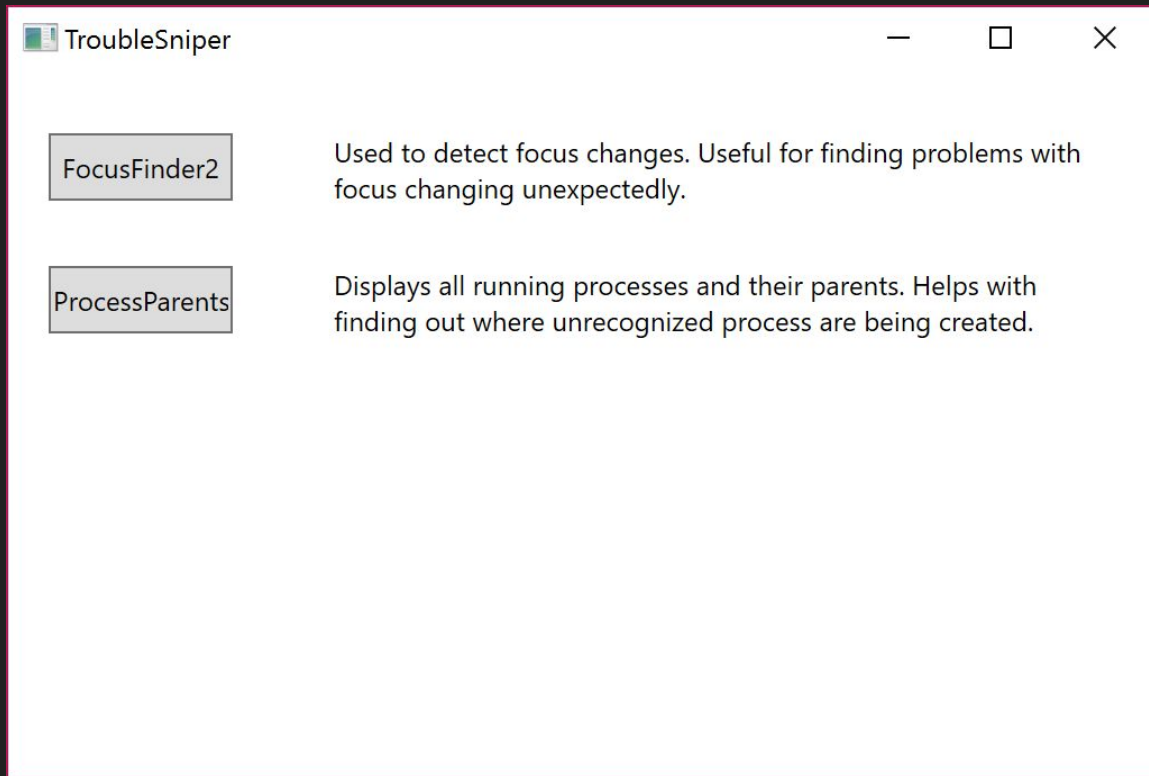
The Problem

- Windows 10 (and Windows in general) has many problems that the provided troubleshooting applications can't find
- As with all operating systems, there are edge cases in Windows 10 operation that can create problems with apps and games
- Though these operating systems have the tools (programmatically) to find these problems, they are rarely used in the diagnostics tools provided, especially to the general user

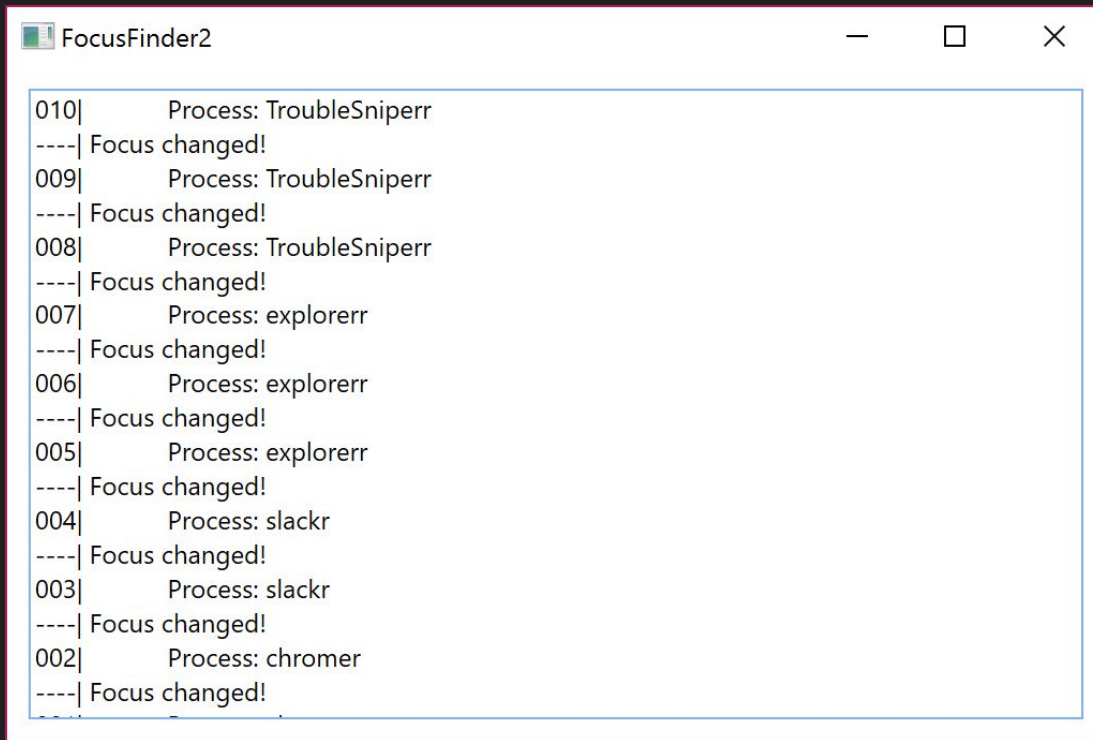
Typical Use of TroubleSniper

- The user has a problem occurring on their Windows 10 machine that the troubleshooter cannot find
 - This could be a problem with process, activities, or other goings on
- The user opens TroubleSniper and launches the relevant diagnostics mini apps
 - For example if a random window keeps coming up but the user cannot surmise its origin, ProcessParents can help them find out what's starting the process
- When the problem occurs again the user can go to the diagnostic window and see helpful information about the computer's activity

The Main Window



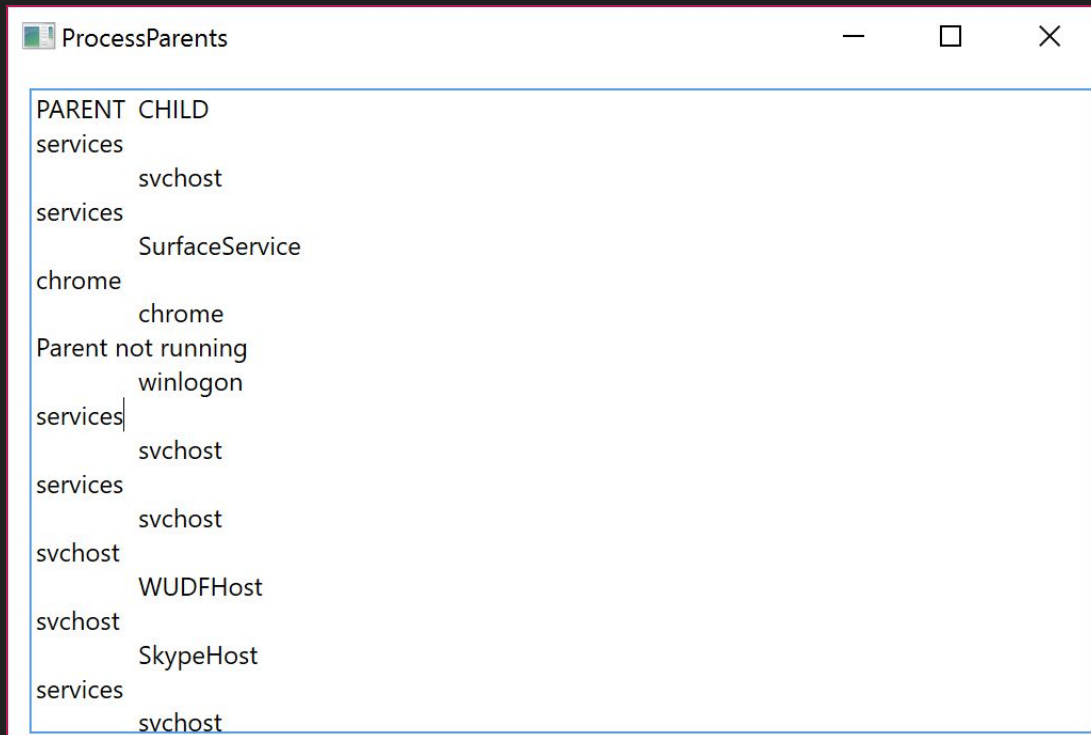
FocusFinder



The screenshot shows a Windows application window titled "FocusFinder2". The window contains a text area with a list of processes and focus change events. The list is as follows:

```
010|      Process: TroubleSniperr
----| Focus changed!
009|      Process: TroubleSniperr
----| Focus changed!
008|      Process: TroubleSniperr
----| Focus changed!
007|      Process: explorerr
----| Focus changed!
006|      Process: explorerr
----| Focus changed!
005|      Process: explorerr
----| Focus changed!
004|      Process: slackr
----| Focus changed!
003|      Process: slackr
----| Focus changed!
002|      Process: chromer
----| Focus changed!
```

ProcessParents



The screenshot shows a window titled "ProcessParents" with a list of processes and their parents. The list is organized into two columns: "PARENT" and "CHILD". The processes listed are: services, svchost, SurfaceService, chrome, chrome, Parent not running, winlogon, services, svchost, services, svchost, svchost, WUDFHost, svchost, SkypeHost, services, and svchost.

PARENT	CHILD
services	svchost
services	SurfaceService
chrome	chrome
Parent not running	winlogon
services	svchost
services	svchost
svchost	WUDFHost
svchost	SkypeHost
services	svchost

Installation (Now and Future)

- Installation/execution currently
 - Pull the repo
 - Go to \TroubleSniper\TroubleSniper\bin\Debug
 - Execute the application "TroubleSniper.exe"
- Installation in the future
 - Pull the repo
 - Run setup.bat
 - The setup will place an application launcher in a given directory
 - Execute the application "TroubleSniper.exe"

Adding to the project

- Instructions for adding to the project can be found in the README (which will point to the file “\TroubleSniper\ADDINGMINIAPPS”)
- To contribute to the project, a new project is made in the solution with the new module (implemented as a standalone project)
- In the main window of TroubleSniper, a reference to the new project is added, along with a button bound to the new module (and a description of the module)
- Documentation is added in the form of comments and a paragraph in the README describing the use and purpose of the new addition

Questions?