# Internet Explorer - %PATH%

The Internet Explorer driver's website included a requirement that the folder you store the Selenium Drivers must be added to the environment variables. I had problems on my Windows 10 machine given that my %PATH% was over the limit. I used the techniques described below and in the workaround steps, but nothing seemed to make a difference which is why I passed the Selenium drivers path into the driver classes.

1. Setup the system environment variables to include the web driver's path.
2. The IE11 WebDriver must be added to the %PATH% variable in order for the IE Driver to work as expected. However, my Win10 got the dreaded "The environment variable is too large error."
   1. Normal steps if they work for you.
      1. Run > "Edit the system environment variables" > Under "Advanced" tab click "Environment Variables" > Under "System variables" select "Path" > Click "Edit" > Click "New" > "C:\Selenium.WebDrivers" > Click "OK" through the screens
   2. Workaround steps
      1. <https://stackoverflow.com/questions/34491244/environment-variable-is-too-large-on-windows-10>
      2. <https://superuser.com/questions/1385854/how-do-i-bypass-restrictions-on-the-length-of-the-path-variable>
   3. In a command prompt I ran "ECHO %PATH%" and found my %PATH% variable was slightly above the 2047 character limit at 2293 characters, so I couldn't use the "%NEWPATH%" techniques.
   4. Instead I used the PowerShell technique mentioned in the references with the code below. I had to run PowerShell as an Administrator so it could edit the registry.
      1. Do I need to run this script every time I restart the computer?
      2. Do I need this at all?

# echo the current %PATH% before the change  
Write-Output $env:Path

$newPath = $env:Path + '; C:\Selenium.WebDrivers'  
[Environment]::SetEnvironmentVariable("Path", $newPath, "Machine")  
$env:Path = $newPath

# echo the current %PATH% after the change  
Write-Output $env:Path

pause

# Chrome – Windows Defender conflict

My Win10 box also kept getting the "Windows Defender Antivirus wants to reset your settings" message as noted in the following urls.

* <https://www.tenforums.com/antivirus-firewalls-system-security/118683-windows-defender-wants-reset-chrome.html>
* <https://www.fixyourbrowser.com/removal-instructions/windows-defender-antivirus-wants-to-reset-your-settings/>

Solution:

In the Windows Registry Editor navigate to \HKEY\_CURRENT\_USER\Software\Google\Chrome\TriggeredReset\

Remove the Timestamp key and the ToolName key.