

PowerShell vs. Unix Bash

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BASH

THE BOURNE-AGAIN SHELL

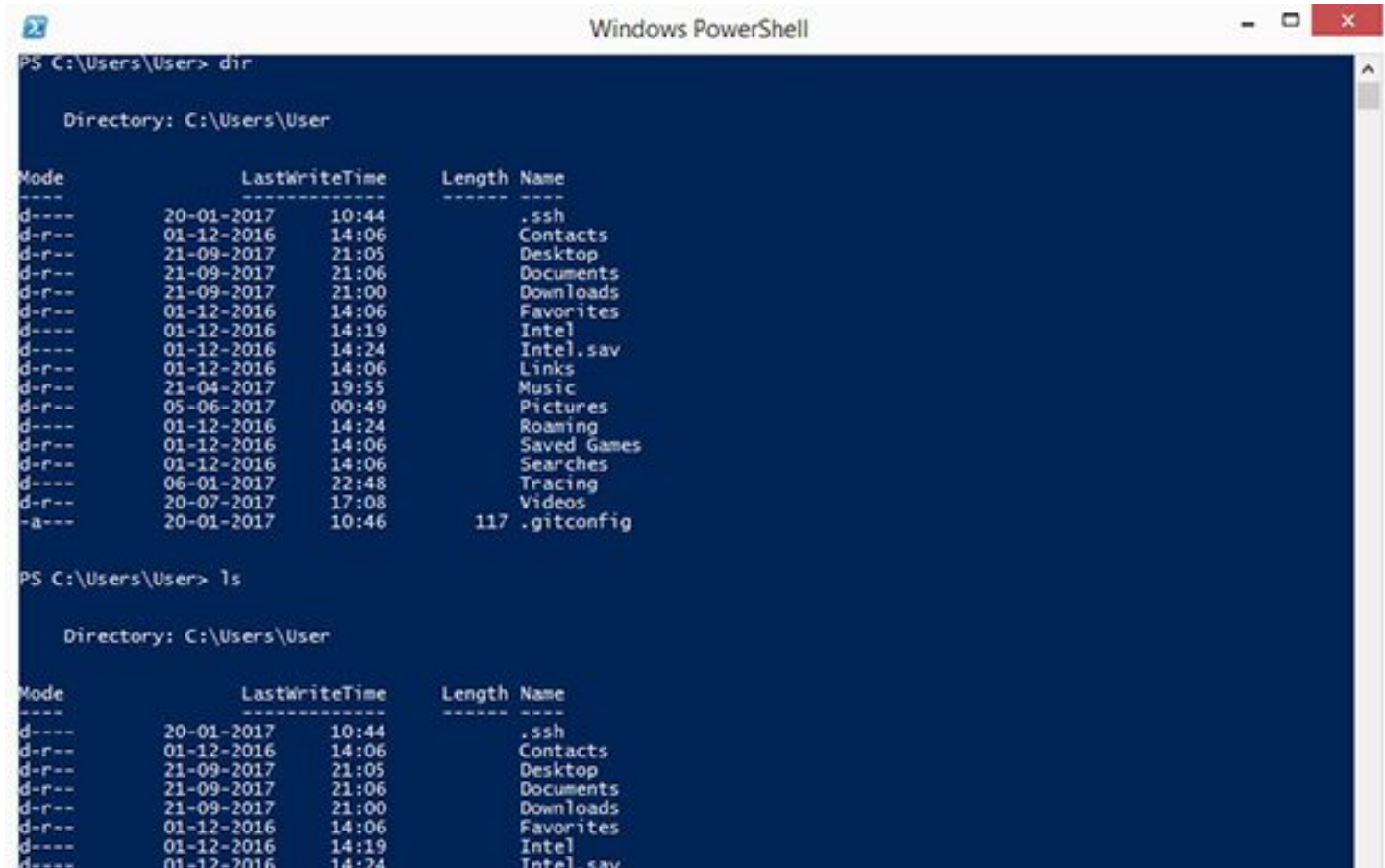


KEEP
CALM
AND
LEARN
POWERSHELL

Windows 10 Anniversary Update



In this comparison of Windows PowerShell vs. Bash, the output for Bash's `Ls` command and PowerShell's `dir` command is similar.



```
Windows PowerShell
PS C:\Users\User> dir

Directory: C:\Users\User

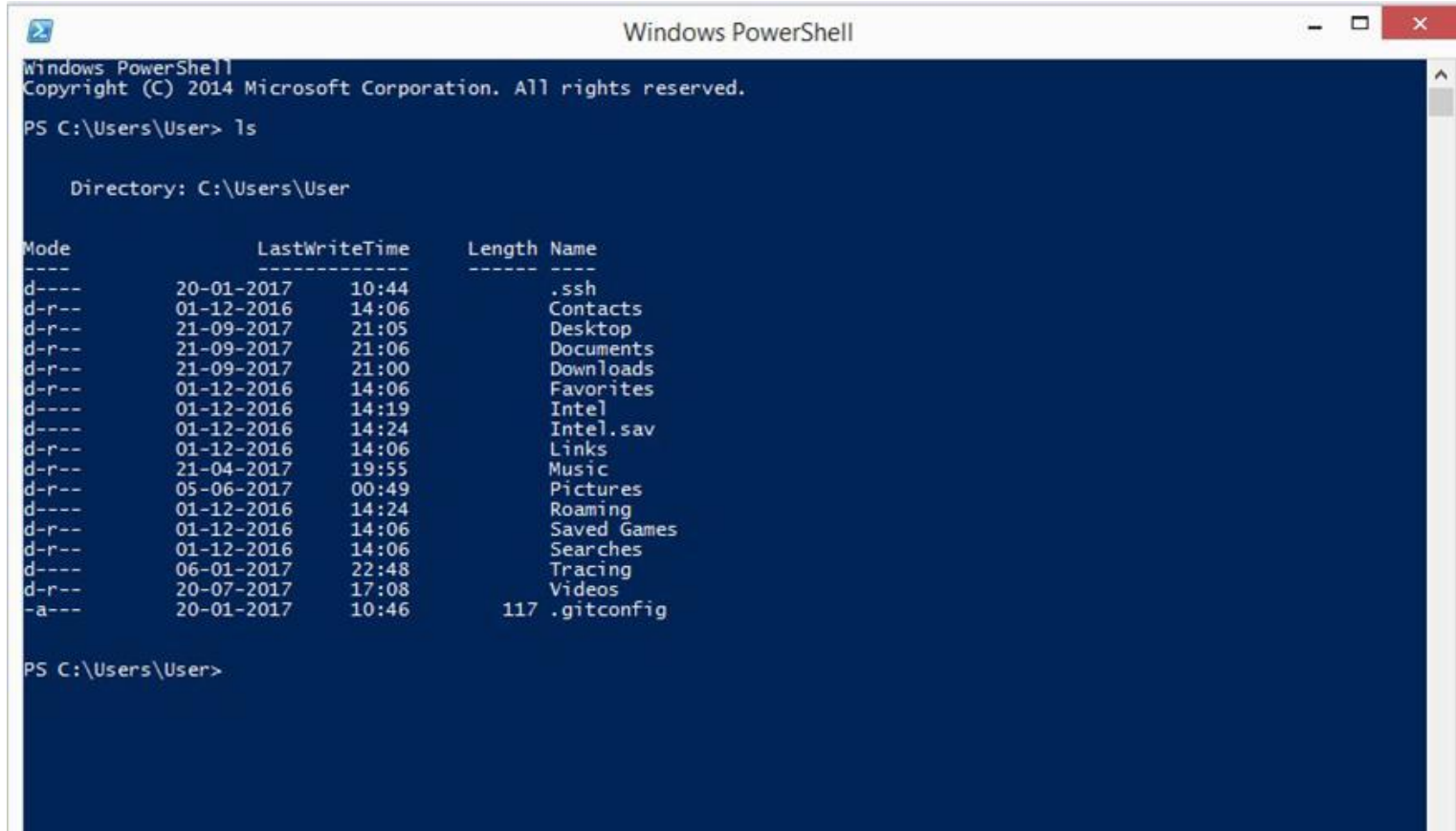
Mode                LastWriteTime         Length Name
----                -
d-----          20-01-2017         10:44     .ssh
d-r--          01-12-2016         14:06     Contacts
d-r--          21-09-2017         21:05     Desktop
d-r--          21-09-2017         21:06     Documents
d-r--          21-09-2017         21:00     Downloads
d-r--          01-12-2016         14:06     Favorites
d-----          01-12-2016         14:19     Intel
d-----          01-12-2016         14:24     Intel.sav
d-r--          01-12-2016         14:06     Links
d-r--          21-04-2017         19:55     Music
d-r--          05-06-2017         00:49     Pictures
d-----          01-12-2016         14:24     Roaming
d-r--          01-12-2016         14:06     Saved Games
d-r--          01-12-2016         14:06     Searches
d-----          06-01-2017         22:48     Tracing
d-r--          20-07-2017         17:08     Videos
-a---          20-01-2017         10:46     117 .gitconfig

PS C:\Users\User> ls

Directory: C:\Users\User

Mode                LastWriteTime         Length Name
----                -
d-----          20-01-2017         10:44     .ssh
d-r--          01-12-2016         14:06     Contacts
d-r--          21-09-2017         21:05     Desktop
d-r--          21-09-2017         21:06     Documents
d-r--          21-09-2017         21:00     Downloads
d-r--          01-12-2016         14:06     Favorites
d-----          01-12-2016         14:19     Intel
d-----          01-12-2016         14:24     Intel.sav
```

PowerShell output for a directory list shows objects and properties.



```
Windows PowerShell
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PS C:\Users\User> ls

Directory: C:\Users\User

Mode                LastWriteTime         Length Name
----                -
d-----          20-01-2017         10:44     .ssh
d-r--          01-12-2016         14:06     Contacts
d-r--          21-09-2017         21:05     Desktop
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d-----          06-01-2017         22:48     Tracing
d-r--          20-07-2017         17:08     Videos
-a---          20-01-2017         10:46     117 .gitconfig

PS C:\Users\User>
```

This chart shows the differences between Windows PowerShell and Bash.

A comparison of PowerShell vs. Bash commands

TASK	POWERSHELL	BASH
Create a variable	<code>\$var=0</code>	<code>Var=0</code>
Add a number (2) to a variable	<code>\$var +=2</code>	<code>Let var=\$var+2</code>
Print a string on the screen	Echo string (or) Write-Host string	Echo String
Write a comment	<code># comment</code>	<code># comment</code>
Compare strings	<code>-eq -ne -ceq -cne</code>	<code>!=</code>
Transform a string	<code>-replace</code>	Sed
Print lines that match a pattern	Select-string	Grep
Work with Boolean values	<code>\$true \$false</code>	True false
Enact an if statement	<pre>if (condition) { codeblock }</pre>	<pre>if [condition] then codeblock fi</pre>
Create a for loop	<pre>foreach (\$var in \$array) { codeblock }</pre>	<pre>for var in \$array do codeblock done</pre>
List files	Ls or Get-Childitem	Ls
Search path	<code>\$env:path</code>	<code>\$PATH</code>

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