

Forum:[Hack Forums](#)

Thread: [\[PowerShell\] File Type Locator Function](#)

Travelers - August 7, 2017, 2:22 pm

So I'm still translating all my scripts when I have the chance from batch to PowerShell. I just re-wrote this one, but it is waaay better than the original. I had some help from Google with this one, but I hope you can find a use for it.

Any feedback is more than welcome. ?

```
Code # -- Create function
Function FileFind {
#--- Create variable and get input from user
$File = Read-Host -Prompt "file extension to find: "
$Location = Read-Host "directory to search in: "
#--- Use Test-Path to check if path is true/false
$Result = (Test-Path($Location));
# --- search directory
IF ($Location)
{
#--- Create directory variable to recursively look through
$Dir = Get-ChildItem $Location -recurse
#--- pass the variable $File though the $_. to check if it exists
#--- in the directory which holds the $Location variable
$List = $Dir | where {$_ .extension -EQ $File}
#--- Pipe the output of $List into a table
$List | Format-Table Name
}
# --- error handle non-existent diretory
else
{
"Folder path does not exist"
}
# --- display results
# --- create function
Function TestPath()
{
# ---See if the path in $Location is true or false
$FileExists = Test-Path $Location
IF ($FileExists -eq $true)
{
Return $true
}
Else
{
Return $false
}
}
}
```

Edit: added many comments.

?CARUs L?VE?™ - August 7, 2017, 3:12 pm

Would you be able to comment your code? Most/many here (including myself) cannot fully understand Powershell.

Travelers - August 7, 2017, 3:55 pm

(Aug 7, 2017 03:12 PM)?CARUs L?VE?™ Wrote: [\[CITE\]](#) Would you be able to comment your code? Most/many here (including myself) cannot fully understand Powershell.

Absolutely. I apologize. I have one other dude I work with who I bounce code off of, so we generally don't comment too, too much. I'll correct it now.

?CARUs L?VE?™ - August 7, 2017, 5:56 pm

(Aug 7, 2017 03:55 PM)Travelers Wrote: [\[CITE\]](#) Absolutely. I apologize. I have one other dude I work with who I bounce code off of, so we generally don't comment too, too much. I'll correct it now.

Please, and thank you! It may be unapparent sometimes, but there are people who read code. Also, Powershell isn't a strength of mine, so it absolutely helps me write hybrid scripts with batch.

Travelers - August 8, 2017, 2:15 am

(Aug 7, 2017 05:56 PM)?CARUs L?VE?™ Wrote: [\[CITE\]](#) Please, and thank you! It may be unapparent sometimes, but there are people who read code. Also, Powershell isn't a strength of mine, so it absolutely helps me write hybrid scripts with batch.

Sure thing. I didn't really think of it. Really one of the best ways to learn is to use the "get-alias" and "get-help" cmdlets. Learning the Powershell equivalents of batch commands is the best way to get started.

Hackoo - August 8, 2017, 2:16 am

Hi ?

Can you post an example to show us how we can use this portion of powershell with a batch file ?
Thank you !

Travelers - August 8, 2017, 2:23 am

(Aug 8, 2017 02:16 AM)Hackoo Wrote: [\[CITE\]](#) Hi ?

Can you post an example to show us how we can use this portion of powershell with a batch file ?
Thank you !

Absolutely. This is the batch file that I was using until I re-wrote in Powershell and added some features.

Code @echo off

```
for %%a IN (*.txt *.doc *.bat) do (  
    IF EXIST %%a (echo File found: %%a) ELSE (echo File NOT found: %%a)  
)  
pause
```

You can see where I added support for user input and the ability to specify which directory you would like to search, straight from the command line. This script only got me so far, and then I needed to expand it. Hope this helps. ?

Hackoo - August 8, 2017, 3:04 am

Hi ?

Here is an example that i made it just right now to show you how we can use the command [Where /?](#) to locate and display files in a directory tree !

Code @echo off

Title Find Location Files using the command Where by Hackoo 2017

Mode con cols=90 lines=5 & color 9E

REM The search will be recursively on the current directory

Set "Source=%~dp0"

Set "Ext=txt doc bat"

set "LogSearch=%~dp0%~n0_SearchLog.txt"

If exist "%LogSearch%" Del "%LogSearch%"

Cls

echo(

echo -----

echo Please Wait a while Searching is in progress

echo -----

@for %%a IN (%Ext%) do (

Where /R %Source% "*.%%a" /F >>"%LogSearch%" 2>&1

)

Start "" "%LogSearch%"

I use the same logic in my last batch file called [Incremental_Copy.bat](#) for searching files paths !

Travelers - August 8, 2017, 3:09 am

(Aug 8, 2017 03:04 AM)Hackoo Wrote: [\[CITE\]](#) Hi ?

Here is an example that i made it just right now to show you how we can use the command [Where](#)
[/?](#)

Code @echo off

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echo(

echo -----

echo Please Wait a while Searching is in progress

echo -----

@for %%a IN (%Ext%) do (

Where /R %Source% "*.%%a" /F >>"%LogSearch%" 2>&1

)

Start "" "%LogSearch%"

Nice job Hackoo.

The Poweshell version allows me to grab the user input and search for the file type and directory that they specify, though. This batch example is great, thank you for your effort?

Hackoo - August 8, 2017, 3:23 am

Here is another batch script that i made it before called :

Local_Search_Engine.bat

Local_Search_Engine.bat [\(Click to View\)](#)

You can also get the input string and browse for folder from user using a vbscript like this improved version :

Code @echo off

Title Find Location Files using the command Where by Hackoo 2017

Mode con cols=90 lines=5 & color 9E

Call :inputbox "Please enter extensions to search separted with space like [bat cmd vbs txt doc] without brackets " "Search for files with their extensions by Hackoo 2017" "bat cmd vbs txt doc"

If "%input%" == "" Color 0C & (

echo(

echo You must enter extensions separted with space to continue with this program

pause>nul & exit

) else (

Call :Browse4Folder "Choose source folder to scan for %input%" "c:\scripts"

)

..*****

Set "Source=%Location%"

If "%ErrorLevel%" EQU "1" Exit

Set "Ext=%input%"

set "LogSearch=%~dp0%~n0_SearchLog.txt"

If exist "%LogSearch%" Del "%LogSearch%"

Cls

echo(

echo -----

echo Please Wait a while Searching is in progress

echo -----

@for %%a IN (%Ext%) do (

Where /R %Source% "*.%%a" /F >"%LogSearch%" 2>&1

)

Start "" "%LogSearch%"

Exit

..*****

..:Browse4Folder

set Location=

set vbs="%temp%_vbs"

set cmd="%temp%_cmd"

for %%f in (%vbs% %cmd%) do if exist %%f del %%f

for %%g in ("vbs cmd") do if defined %%g set %%g=

(

echo set shell=WScript.CreateObject("Shell.Application")

echo set f=shell.BrowseForFolder(0,"%~1",0,"%~2")

echo if typename(f)="Nothing" Then

echo wscript.echo "set Location=Dialog Cancelled"

echo WScript.Quit(1^)

echo end if

echo set fs=f.Items():set fi=fs.Item(^)

echo p=fi.Path:wscript.echo "set Location=" ^& p

)>%vbs%

cscript //nologo %vbs% > %cmd%

for /f "delims=" %%a in (%cmd%) do %%a

for %%f in (%vbs% %cmd%) do if exist %%f del /f /q %%f

for %%g in ("vbs cmd") do if defined %%g set %%g=

goto :eof

..*****

..:

:InputBox

```

set "input="
set "heading=%~2"
set "message=%~1"
set "Default=%~3"
echo wscript.echo inputbox(WScript.Arguments(0),WScript.Arguments(1),WScript.Arguments(2))
>"%temp%\input.vbs"
for /f "tokens=* delims=" %%a in ('cscript //nologo "%temp%\input.vbs" "%message%"
"%heading%" "%Default%"") do (
    set "input=%%a"
)
exit /b
..*****
..

```

?CARUs L?VE?™ - August 8, 2017, 5:21 am
 (Aug 8, 2017 03:09 AM)Travelers Wrote: [\[CITE\]](#) Nice job Hackoo.

The Poweshell version allows me to grab the user input and search for the file type and directory that they specify, though. This batch example is great, thank you for your effort?
 You're so open to conversation, example, correction, and suggestion. You're fitting in quite nicely here!

Travelers - August 8, 2017, 1:00 pm
 (Aug 8, 2017 05:21 AM)?CARUs L?VE?™ Wrote: [\[CITE\]](#) You're so open to conversation, example, correction, and suggestion. You're fitting in quite nicely here!
 Ha. Well, what other way is there to be? I don't wanna be known as one of those people who is a douche bag and can't take criticism.

Hackoo - August 8, 2017, 1:21 pm
 @Travelers
 Did you checked my [last edit](#) ?

Travelers - August 8, 2017, 1:24 pm
 (Aug 8, 2017 01:21 PM)Hackoo Wrote: [\[CITE\]](#) @Travelers
 Did you checked my [last edit](#) ?
 I did. I enjoyed it. That's some good stuff to be able to produce from batch.

I could never write anything like that from just batch. ?