commene Line Basics

Learn how to navigate your filesystem using the command line



So you want to create a collection of Twitter data...

You're going to need to know how to navigate your filesystem first



How do you create a new folder?

- a. Right-click on my desktop and click 'Create New Folder'
- b. Click on the 'New Folder' button in my file explorer
- c. Will it into existence, I have the power within me
- d. I don't. I like my files to be free range.





'PS' signals the shell prompt. You can tell when a process is complete when it returns to the shell prompt.

Capitalization and spacing matter! Make sure to always double check your work.

You can drag and drop folders into PowerShell instead of typing out their filepath

Using the up arrow on your keyboard will recall commands. Use this tip to waste less time writing out commands and lengthy filepaths.

You can paste text by right-clicking in PowerShell





Download the file <u>'walt_whitman.zip'</u> and save it to your Desktop.





Use the taskbar to search for PowerShell and select 'Windows PowerShell'







>>Find out where you are in your filesystem by entering the print working directory command





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PS M:\> P-

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>>Let's find out which directories and files are in your location with the list files command





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Windows PowerShel Copyright (C) Mic	l rosoft Corporation.	All rights rese	rved.			^
PS M:\> pud						
Path						
M:\						
PS M:\>						
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Moving Around Using PowerShell

>>Let's change directories. Navigate to your Desktop by entering the change directory command



Important: If this command doesn't work, you may need to enter a different filepath. If this is the case for this or any of the following commands in this presentation, type the command first and then paste the correct filepath into PowerShell. This is illustrated in the following animated gif.



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PS M:\> pwd				

Path

M:\

PS M:\> 1s

Directory: M:\

Mode	Last	WriteTime
d	1/7/2019	10:20 AM
d	1/7/2019	9:43 AM
-8	9/13/2018	4:43 PP
- a++++	9/11/2018	7:43 AM
-a	9/13/2018	4:43 PM

Length Name

1 october twarc 0 201809138arrieMParis.json1 16017 Information for New Users.docx 368 twarc.log

PS M:\>

Instead of typing out the filepath, you can just paste it into PowerShell

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>>Create a directory and title it walt_whitman by using the make directory command





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PS M:\> pud

Path

M:\

PS M: \> 1s

Directory: M:\

Mode	LastWriteTime					
d	1/7/2019	10:20 AM				
d	1/7/2019	9:43 AM				
-a	9/13/2018	4:43 PM				
-a	9/11/2018	7:43 AH				
-a	9/13/2018	4:43 PH				

PS N:\> cd D:\Desktop PS D:\Desktop> Length Name 1 october twarc 0 20180913BarrieMParis.jsonl 16017 Information for New Users.docx 368 twarc.log

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Moving Around Using PowerShell

>>Move the 'walt_whitman' zip file you downloaded from your Desktop into your 'walt_whitman' directory by using a new command, move:

mv walt_whitman.zip walt_whitman



🛃 Admini	strator: Windows PowerShell			-	×
d d -a -a PS M:\> cd PS D:\Desk Direct	1/7/2019 10:20 AM 1/7/2019 9:43 AM 9/13/2018 4:43 PM 9/11/2018 7:43 AM 9/13/2018 4:43 PM 0/13/2018 4:43 PM D:\Desktop top> mkdir walt_whitman	8 16817 368	1 october twarc 20180913BarrieMParis.jsonl Information for New Users.docx twarc.log		
Mode d PS D:\Desk	LastWriteTime 1/25/2019 11:34 AM	Length	Name walt_whitman		
	⊳				



>>Navigate to your new directory using the change directory command

cd D:\Desktop\walt_whitman



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d d -a -a PS M:\> cd	1/7/2019 10:20 AM 1/7/2019 9:43 AM 9/13/2018 4:43 PM 9/11/2018 7:43 AM 9/13/2018 4:43 PM D:\Desktop	1 0 2 16017 I 368 t	october warc 0180913BarrieMParis.jsonl nformation for New Users.docx warc.log			
Directo Mode 	ory: D:\Desktop LastWriteTime 1/25/2019 11:34 AM	Length N	lame walt_whitman			
PS D:\Deskt P5 D:\Deskt	top> mv walt_whitman.zip wa top>	lt_whitman		N		

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Nice work! Now we're going to manipulate some files using **PowerShell.**





>>First, we need to unzip the file. Use the expand archive command to do so

Expand-Archive walt_whitman.zip



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Path ----D:\Desktop\walt_whitman

PS D:\Desktop\walt_whitman>

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Manipulating Files Using PowerShell

>>Navigate to the directory containing the unzipped files using the change directory command

cd D:\Desktop\walt_whitman\walt_whitman





Path ----D:\Desktop\walt_whitman

and all the

PS D:\Desktop\walt_whitman> Expand+Archive walt_whitman.zip PS D:\Desktop\walt_whitman>



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>>Let's see what's inside. Use the list files command







Path ----D:\Desktop\walt_whitman

PS D:\Desktop\walt_whitman> Expand-Archive walt_whitman.zip PS D:\Desktop\walt_whitman> cd D:\Desktop\walt_whitman\walt_whitman PS D:\Desktop\walt_whitman> cd D:\Desktop\walt_whitman\walt_whitman

PS D:\Desktop\walt_whitman\walt_whitman>



Manipulating Files Using PowerShell

>> What a treat! You've unzipped four poems and a README plain text file. Let's find out how many lines and words are in the file '1_Poem.txt' by entering the get-content and measure-object commands

Get-Content 1_Poem.txt | Measure-Object –Line -Word





Path ----D:\Desktop\walt_whitman

PS D:\Desktop\walt_whitman> Expand Archive walt_whitman.zip PS D:\Desktop\walt_whitman> cd D:\Desktop\walt_whitman\walt_whitman PS D:\Desktop\walt_whitman\walt_whitman> ls

ength Name

13260 1_Poem.txt 1346 2_Poem.txt 650 3_Poem.txt

> 281 4_Poem.txt 473 readme.txt

Directory: D:\Desktop\walt_whitman\walt_whitman

Mode	LastWriteTime					
-a	1/6/2019	2:16 PM				
-a	1/6/2019	2:16 PM				
-3	1/6/2019	2:15 PM				
-8	1/6/2019	2:15 PM				
-8	1/6/2019	2:28 PM				

PS D:\Desktop\walt_whitman\walt_whitman>

There are 289 lines

and 2,451 words in

the first poem.



>>Let's find out which poem it is! Start by using the tail command, which pulls up the last 10 lines of a text

Get-Content 1_Poem.txt -Tail 10



27 Administrator: Windows PowerShell

PS D:\Desktop\walt_whitman\walt_whitman> Get-Content 1_Poem.txt | Measure-Object -Line -Word

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C 10 11

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Lines Words Characters Property 289 2451

PS D:\Desktop\walt_whitman\walt_whitman>

>>Here's what you should see



With the holders holding my hand nearing the call of the bird,

Comrades mine and I in the midst, and their memory ever to

keep, for the dead I loved so well,

For the sweetest, wisest soul of all my days and lands—and this

for his dear sake,

Lilac and star and bird twined with the chant of my soul,

There in the fragrant pines and the cedars dusk and dim.

https://whitmanarchive.org/published/LG/1891/clusters/192





>>So that didn't give us the title, let's try and see if using the head command to get the first 10 lines of a text will help

Get-Content 1_Poem.txt -Head 10



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- E.		100	1212.40				1 1 1 1 1 1	C 10 1	CICIL
_									

-a	1/6/2019	2:15 PM	650 3_Poem.txt
-a	1/6/2019	2:15 PM	281 4_Poem.txt
-a	1/6/2019	2:28 PH	473 readme.txt

PS D:\Desktop\walt_whitman\walt_whitman> Get-Content 1_Poem.txt | Reasure-Object -Line -Word

~

Lines Words Characters Property

289 2451

PS D:\Desktop\walt_whitman\walt_whitman> Get+Content 1_Poem.txt -Tmil 10 of woe, With the holders holding my hand nearing the call of the bird, Comrades mine and I in the midst, and their memory ever to keep, for the dead I loved so well, For the sweetest, wisest soul of all my days and landså€"and this for his dear sake, Lilac and star and bird twined with the chant of my soul, There in the fragrant pines and the cedars dusk and dim.

https://whitmanarchive.org/published/LG/1891/clusters/192
P5 D:\Desktop\walt_whitman\walt_whitman>

>>Here's what you should see

WHEN LILACS LAST IN THE DOORYARD BLOOM'D.

WHEN lilacs last in the dooryard bloom'd,

And the great star early droop'd in the western sky in the night,

I mourn'd, and yet shall mourn with ever-returning spring.

Ever-returning spring, trinity sure to me you bring,

Lilac blooming perennial and drooping star in the west,





>>Looks like we tracked down the title of the poem. Let's rename the file to match the poem's title. You can do this using the move command you learned earlier

mv 1_Poem.txt when_lilacs_last.txt



27 Administrator: Windows PowerShell

PS D:\Desktop\walt_whitman\walt_whitman> Get+Content 1_Poem.txt -Head 10 WHEN LILACS LAST IN THE DOORYARD BLOOM'D.

WHEN lilacs last in the dooryard bloom'd, And the great star early droop'd in the western sky in the night, I mourn'd, and yet shall mourn with ever-returning spring.

Ever-returning spring, trinity sure to me you bring, Lilac blooming perennial and drooping star in the west, PS D:\Desktop\walt_whitman\walt_whitman>



>>Let's check out the 'readme.txt' file to see if it tells us about any of the other poems. You can open the file by using the cat (concatenate) command

cat readme.txt



27 Administrator: Windows PowerShell

PS D:\Desktop\walt_whitman\walt_whitman> Get+Content 1_Poem.txt -Head 10 WHEN LILACS LAST IN THE DOORYARD BLOOM'D.

WHEN lilacs last in the dooryard bloom'd, And the great star early droop'd in the western sky in the night, I mourn'd, and yet shall mourn with ever-returning spring.

Ever-returning spring, trinity sure to me you bring, Lilac blooming perennial and drooping star in the west, PS D:\Desktop\walt_whitman\walt_whitman> mv l_Poem.txt when_lilacs_last.txt PS D:\Desktop\walt_whitman\walt_whitman>



>>Before we exit PowerShell, let's get rid of the 'walt_whitman.zip' file since we don't need it anymore. Do this by entering the remove command

rm D:\Desktop\walt_whitman\walt_whitman.zip



27 Administrator: Windows PowerShell

All poems are from the Walt Whitman Archive.

URL: https://whitmanarchive.org/published/LG/1891/clusters/192 PS D:\Desktop\walt_whitman\walt_whitman> -----

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>>Since we're all done in this directory, navigate up two directories to your Desktop by entering the change directory command





27 Administrator: Windows PowerShell

All poems are from the Walt Whitman Archive.

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https://whitmanarchive.org/published/LG/1891/clusters/192
P5 D:\Desktop\walt_whitman\walt_whitman> rm D:\Desktop\walt_whitman\walt_whitman.zip
PS D:\Desktop\walt_whitman\walt_whitman>

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>>Home sweet Desktop. Print the working directory one more time to make sure you're in the right place.





PS D:\Desktop>

All Address

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>>We're good to go! Go ahead and leave PowerShell by entering the exit command







Nice work! Now you can use the command line to navigate your filesystem.



thank you want to email miranda.barrie @unlv.edu

