Cheatography

PowerShell Cheat Sheet by giangpdh via cheatography.com/137135/cs/36171/

\$MyVariable = 1, 2, \$Path = "C:\Window	3 vs\System32"				
\$MyVariable	1 2 3				
\$MyVariable = "The green cat." \$MyVariable	The green cat. ."				
Clear-Variable -Name MyVariable \$MyVariable = \$null					
Remove-Variable -Name MyVariable Remove-Item -Path Variable:\MyVar- iable					
To get a list of all the variables in your PowerShell session, type Get- Variable.					
<pre>\$Processes = Get-Process \$Today = (Get-Date).DateTime</pre>					
\$a = \$b = \$c = 0					
\$i,\$j,\$k = 10, "- red", \$true \$i,\$j = 10, "red", \$true	# \$i is 10, \$j is "- red", \$k is True # \$i is 10, \$j is [object[]], Length 2				
	<pre>\$MyVariable = 1, 2, \$Path = "C:\Window \$MyVariable \$MyVariable "The green cat." \$MyVariable Clear-Variable -Nar \$MyVariable = \$nul Clear-Variable -Nar \$MyVariable = \$nul Clear-Variable -Nar \$MyVariable = \$nul \$MyVariable = \$nul \$A \$nul \$</pre>				

Types of variables			
\$a = 12	System.Int32		
\$a = "Word"	System.String		
\$a = 12, "Word"	array of System.Int32, System.String		
\$a = Get-ChildItem C:\Wind	lows FileInfo and DirectoryInfo typ		
To use cast notation, enter type name, enclosed in brackets, before the variabl name (on the left side of the assignment statement).	a [int]\$number = 8 e		
Variable substitution in strir	gs		
Concatenation	\$name = 'Kevin Marquette' \$message = 'Hello, ' + \$name		
Variable substitution	\$first = 'Kevin' \$last = 'Marquette' \$message = "Hello, \$first \$last."		
Arrays			
To create and initialize an array, assign multiple values to a variable.	\$A = 22,5,10,8,12,9,80		
The array sub-expression operator creates an array from the statements inside it.	@() \$a = @("Hello World") \$p = @(Get-Process Notepad)		
Where-Object filtering	\$data Where-Object {\$FirstName - 'Kevin'} \$data Where FirstName -eq Kevin		
Where()	\$data.Where({\$FirstName -eq 'Ke		
Selects objects or object properties.	Get-Process Select-Object -Propert ProcessName, Id, WS		
Hash Tables			
Hash Tables To create an empty hashtal the value of \$hash, type:	ole in \$hash = @{}		

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Hash Tables (cont)			PSCustomObject (cont)		
To display a hashtab saved in a variable, t	ble that's type the	\$hash	Enumerating property names	\$myObject Get-Member -MemberType NoteProperty Select -ExpandProperty Name	
variable name. hashtables have Key Values properties.	ys and	\$hash.keys \$hash.values	Dynamically accessing properties	\$myObject.'Name'	
You can iterate over a hashtable to proce values in several wa	the keys in ss the ys.	foreach (\$Key in \$hash.Keys) { "The value of '\$Key' is: \$(\$hash[\$Key])" }	Convert PSCust- omObject into a hashtable	<pre>\$hashtable = @{} foreach(\$property in \$myobject.psobject.pr- operties.name) {</pre>	
To add keys and values to a hashtable, use the following command format.		\$hash[" <key>"] = "<value>" \$hash["Time"] = "Now"</value></key>		<pre>\$hashtable[\$property] = \$myObject.\$p- roperty }</pre>	
You can also add ke values to a hashtable Add method of the S	ys and e using the system.Co-	Add(Key, Value) \$hash.Add("Time", "Now")	Testing for properties	if(\$null -ne \$myObject.ID) if(\$myobject.psobject.properties.match('ID').C- ount)	
llections.Hashtable c	object.		Functions		
PSCustomObject Creating a \$myObject PSCustomObject Name =	\$myObject = Name = 'K	[PSCustomObject]@{ evin'	A simple function	function Get-Version { \$PSVersionTable.PSVersion }	
	Language State = 'Te }	⊭ = 'PowerShell' exas'	Parameters	function Test-MrParameter { param (\$ComputerName	
Converting a \$my hashtable N L	\$myHashtabl Name = 'K Language	lashtable = @{ me = 'Kevin' nguage = 'PowerShell') Write-Output \$ComputerName }	
	State = 'Te }	xas'			
	\$myObject =	[pscustomobject]\$myHashtable			
Saving to a file	\$myObject 0 ntent -Path \$ \$myObject = ConvertFrom	ConvertTo-Json -depth 1 Set-Co- Path Get-Content -Path \$Path -Json			
Adding properties	\$myObject / NoteProperty 'KevinMarque \$myObject.IE	Add-Member -MemberType ' -Name 'ID' -Value ette')			
Remove properties	\$myObject.ps	sobject.properties.remove('ID')			

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