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=====

```
chcp # reports code page
~\AppData\Roaming\Vifm\vifmrc

in Explorer: Alt+D > cmd > Enter
```

Command Prompt

```
PS> cmd then exit
```

environment variables

```
echo %username%
echo %userprofile%
    echo %appdata%
    echo %localappdata%
set # shows them all
```

computer name

```
echo %computername%
hostname
```

path

```
echo %path:;=&echo.% # %PATH% on separate lines
powershell -Command ($env:Path).split(';')
pwsh -Command ($env:Path).split(';')
```

The Platinum Searcher

```
pt /version
pt search .
```

in \$Drpbx\JH

```
pt '$core' .
pt '$DJH' .
pt '$JH' .
```

PowerShell

```
$MyInvocation.MyCommand.Name # = the script's name
$MSWin10\gac.ps1 # to explore all commands
'Hello world'
1..3
<command> | Out-Null # works for some commands
Alt > Space > E > L > [ up / down to scroll Esc ]
iex <someCommand> # = invoke-expression
less <someFile>
foreach($element in 1..3){ $element }
get-package | Format-Table -AutoSize
PowerShell -NoProfile
sleep 1

$_ = $PSItem = current object in the pipeline object measure-object = measure
```

aliases

limited to single commands

Get-Alias

```
gal -Definition Get-ChildItem
gal ls
gal | sort Source | ft -view Source
```

standard

```
gal h*
nal <alias> <string>
sal <alias> <string>
```

cmdlets

```
get-commandSyntax <command>

• format-table: ft
• get-content: cat, gc, type
• get-item: gi
• invoke-expression: iex
• remove-item: del, erase, rd, ri, rm, rmdir
```

colour

```
[System.Enum]::GetValues('ConsoleColor') | ForEach-Object { Write-Host $_ -ForegroundColor $_ }
iex "$ITstack\MSWin\PowerShell\colours\ConsoleColor.ps1"
iex "$ITstack\MSWin\PowerShell\colours\LindbergColors.ps1"
iex "$onGH\misc\Colors.ps1"
Write-Color -Text 'Red ', 'Green ', 'Yellow ' -Color Red,Green,Yellow
```

PSScriptTools

```
Get-PSSessionInfo
```

bars

```
New-ANSIBar -Range (232..255)
New-RedGreenGradient
```

data

```
$x.GetType()  
Get-MyVariable
```

arrays

```
$a = 1,'a',2,'b'  
foreach ($element in $myArray) {$element}  
Format-Custom -InputObject $array -Expand CoreOnly # displays structure
```

strings

```
"Hello".Replace('l', 'x').Replace('H', 'Y')  
'a'.equals('b')  
'me'+'et'  
$string.trim() # removes whitespaces (including newlines) from ends  
[string]$Pwd  
Format-String PowerShell -Randomize  
if ( '5' -ne '4' ) { '5 is not 4' }
```

datetime

```
[System.TimeZoneinfo]::GetSystemTimeZones() | Out-GridView  
Get-TimeZone -listavailable | Out-GridView  
Get-TZData Australia/Hobart
```

Get-Date

```
$n = Get-Date -f yyyyMMddhhmmss  
(Get-Date).Day  
(Get-Date).ToString("yyMMdd-HH:mm:ss")
```

no standard aliases

executables

```
cd 'C:\Program Files'  
(Get-ItemProperty HKLM:\Software\Microsoft\Windows\CurrentVersion\Uninstall\* ).displayname  
C:\MozillaThunderbird\thunderbird.exe -addressbook  
C:\Windows\explorer.exe "microsoft-edge:searchterm"  
gcm explorer  
explorer shell:AppsFolder # Applications  
start <somefile>  
where.exe gpg  
where.exe pwsh  
where.exe where.exe # doesn't find executables in ~\AppData\
```

foreach-object

- % = foreach
- not the foreach loop statement

help

```
Get-Help Start-BitsTransfer  
man <cmdlet> # Get-Help, paged  
powershell /?  
Update-Help -UICulture en-US
```

history

Get-LastModifiedFile

command history

```
gvim (Get-PSReadlineOption).HistorySavePath  
h # Get-History
```

networking

wp

IP

```
cc  
ip  
Get-WhoIs 8.8.8.8
```

modules

```
$env:psmodulepath -split (';')  
C:\Users\troin\Documents\PowerShell\Modules  
get-installedmodule  
get-module  
get-module -all  
get-module -listavailable # details, including old and those in Windows PowerShell  
gvim $env:localappdata\Roaming\Microsoft\Windows\PowerShell\PSReadLine\ConsoleHost_history.txt  
New-BurntToastNotification  
pc # PowerColorLS
```

PSScriptTools

```
Get-MyAlias # limited to PSScriptTools  
Get-DirectoryInfo # alias dw  
Get-MyVariable  
Get-PathVariable  
Get-PSSessionInfo  
Get-PSScriptTools # synopsi of commands  
Get-TZData Europe/Paris  
Get-WhoIs 8.8.8.8  
Open-PSScriptToolsHelp
```

compact lists

```
Get-ModuleCommand ps.checkModuleUpdates  
Get-ModuleCommand PSScriptTools
```

Show-Tree

```
pstree -?  
t [n] => pstree <depth>
```

-InColor only works in Windows PowerShell

PSFzf

```
Alt+a # select an argument  
Alt+c # change to sub-directory  
Ctrl+r # search PSReadline History  
Ctrl+t # select provider path  
Invoke-Fzf -?
```

tab completion

update

```
$machine\updateModules.ps1 # for reference  
compare-module | where updateneeded | foreach { update-module $_.name } # slow but reliable
```

Ruby

```
where.exe irb  
where.exe ruby
```

scripts

```
C:\Users\troin\Documents\PowerShell\Scripts  
Get-InstalledScript  
param( [switch]$doSomething ) # -doSomething creates $doSomething = true
```

storage

```
dw # directory counts  
get-volume # reports partitions  
ii . # invoke Explorer on WD  
sl <directoryToMoveTo>  
takeown /? | less
```

investigations

```
bat <textFile> # with beautiful formatting and less paging  
csl # symlink targets in green or red  
dw -?  
f # fzf preview files with bat  
Get-FileHash <fileForWhichYouWantSHA256>  
if ( ! ( test-path 'dir' ) ) { ni -name 'dir' -type directory }  
pc -a -l -t # includes hidden & time sorted  
stringInVims "string"
```

Get-Content

```
gc <file>  
gc somefile.txt | where { $_ -match "expression" }
```

aliases: cat, type

by extension

```
cex  
Get-FileExtensionInfo -r  
tomalak
```

gci

```
dir, list, ls  
gci * | select FullName  
gci * | select Name  
gci . -force # Gets both hidden & non-hidden. Shows desired symlinks target.  
gci -r -i i1*,i2*,i3*  
gci -r -i '* (* conflicted copy *' | %{echo $_.fullname} | ri  
gci -r | ? Name -match <regex>
```

PSAnsiMap

```
gci . | ft -view ansi # overrides Terminal-Icons
Get-PSAnsiFileMap # shows ANSI mappings
```

pure string output

```
gci *.pdf | select -expand name
gci $path | select -expand FullName
```

lastwritetime

```
lwp \.ps1
lwt md md
lwt sh sh
lwt docs doc odt
lwt tex cls sty tex
lwt txt txt
```

quick terminal output

```
lwts *.ps1 *.sh
lwts *.txt
```

sizes

```
du64 -l 1
Get-GitSize # when you're in .git's parent directory
```

functions in \$MSWin10\PSProfile.ps1

```
dc
fso
gfsi
```

manipulations

```
gci -r -i "*.txt" | %{mi $_.fullname ($_.fullname -replace ".txt",".dw")} # renames all txt
robocopy /mir <sourcedir> <destinationdir> /l # runs a simulation of mirroring source to de
```

ROBOCOPY.exe

aliases

```
copy-item: copy cp cpi move-item: move, mv, mi remove-item: erase, del, rd, ri, rm, rmdir
rename-item: ren, rni
```

new-item

```
ni <directory> -type directory
```

md = mkdir, which calls new-item

system info

```
$Profile
(Get-CimInstance Win32_OperatingSystem) | Select-Object -Property Version, Caption
Get-PowerShellEngine -Detail
Get-PSLocation
Get-PSWho
Get-WindowsUpdateLog # creates \Users\troin\Desktop\WindowsUpdate.log
Sysdm.cpl -> System Properties
winver # pops up About Windows
Get-PSSessionInfo
Get-WindowsVersion
Get-WindowsVersionString
Test-IsElevated
```

environment variables

```
$env:computername
$env:localappdata
$env:pathext
$env:programfiles # C:\Program Files
${env:programfiles(x86)} # C:\Program Files (x86)
$env:username
$env:userprofile
$home
$pscriptroot
gci env: # list the environment variables
```

Roaming

```
$Env:AppData # C:\Users\...\AppData\Roaming
ls "$Env:AppData\Pandoc\defaults"
```

path

```
$env:Path -split ';'
Get-PathVariable
```

text wrangling

```
"Hello".Replace('l', 'x')
& "${Env:ProgramFiles(x86)}\Vim\vim82\gvim.exe" <textfile>
(Get-Content $file) -replace $regex, $newtext | Set-Content $file
```

Emacs

```
C:\Emacs\emacs-28.1\bin\emacs.exe -nw
C:\Users\troin\AppData\Roaming\.emacs.d
sl C:\Users\troin\AppData\Roaming\.emacs.d
~\AppData\Roaming\.spacemacs
```

version

```
$PSVersionTable
Get-ItemPropertyValue -Path "HKLM:\SOFTWARE\Microsoft\PowerShellCore\InstalledVersions\*" -N
```

robocopy

```
/l - list only (= simulate)
/tee - output to console as well as log file
```

Windows PowerShell - modules

```
C:\Users\troin\Documents\WindowsPowerShell\Modules
get-installedmodule
get-module -listavailable # details, including old
```

wt

- in Explorer: Alt+D > wt > Enter
- win+; emojis
- win+r > wt opens wt on ~
- Windows Terminal

Settings

Startup > Launch on machine startup

- alt+shift+- = split down
- Ctrl+, = Settings

key-binds

Settings > Actions

- alt+D duplicate pane right
- alt+_ split pane below
- alt++ split pane right
- alt+arrow move focus
- ctrl+c copy text
- ctrl+T new tab
- ctrl+W close pane
- ctrl+Shift+PgUp scroll up a page
- ctrl(+Shift)+Tab move to next (previous) tab