

# Command Line Tools

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## 1. Setup

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- Powershell 7
    - <https://learn.microsoft.com/en-us/powershell/scripting/install/installing-powershell-on-windows>
    - `notepad $profile` or `code $profile`
      - <https://gist.github.com/UndefinedVoidNull/055e23f8d9df82cf650d4e5f0a8f6f06>
      - `Set-Alias -Name ALIAS_NAME -Value COMMAND -Scope Global`
  - Windows Terminal
    - Set AHK Shortcut: **Win + Backtick** to open `wt.exe`
- ```
1 | #`::Run, wt.exe
```
- MSYS2
    - <https://www.msys2.org/>
    - Add to `$env:path`
  - Starship
    - <https://starship.rs/>
    - Config:
      - Win+R: `%USERPROFILE%\.config\starship.toml`
      - <https://gist.github.com/UndefinedVoidNull/24cd0afd8bab03950723eebcc4a5806b>
  - On-My-Posh (Not Recommend)
    - <https://ohmyposh.dev/>

## 2. Basic Tools

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- Package Manager
  - `winget`
  - `choco`
  - `scoop`
- `lsd` (ls)
  - <https://github.com/lsd-rs/lsd>
- `z` zoxide (smarter cd)
  - <https://github.com/ajeetsouza/zoxide>
- `rg` ripgrep (grep)
  - <https://github.com/BurntSushi/ripgrep>
- `bat` (cat)

- <https://github.com/sharkdp/bat>
- `fd` (find)
  - <https://github.com/sharkdp/fd>
- `fzf` (fuzzy find)
  - <https://github.com/junegunn/fzf>
- `dua` Disk Usage Analyzer (du)
  - <https://github.com/Byron/dua-cli>
- `gsudo` (sudo)
  - <https://github.com/gerardog/gsudo>
- `icdiff` Improved colored diff (diff)
  - <https://github.com/jeffkaufman/icdiff>
- `new` (New-Item) (Paste into `$profile`)

```

1 function new {
2     param(
3         [Parameter(Mandatory)]
4         [string]$Name
5     )
6
7     if ($Name -match '\.') {
8         # Contains a dot, assume it's a file
9         New-Item -Path $Name -ItemType File -Force
10    } else {
11        # No dot, assume it's a directory
12        New-Item -Path $Name -ItemType Directory -Force
13    }
14 }

```

### 3. Application Tools

- `conda` Anaconda
  - <https://www.anaconda.com/download-success>
- `gh` GitHub CLI
  - <https://cli.github.com/>
- `ffmpeg`
  - <https://www.ffmpeg.org/>
- `magick` ImageMagick
  - <https://imagemagick.org/script/command-line-tools.php>
- `http` httpie (curl)
  - <https://github.com/httpie/cli>
- `yt-dlp`
  - <https://github.com/yt-dlp/yt-dlp>

- `aria2c`
  - <https://aria2.github.io/>
- `calibre`
  - [https://calibre-ebook.com/download\\_windows](https://calibre-ebook.com/download_windows)
  - <https://manual.calibre-ebook.com/generated/en/cli-index.html>
  - `ebook-convert`
    - <https://manual.calibre-ebook.com/generated/en/ebook-convert.html>
  - `2pdf` (Paste into `$profile`)

```

1 function 2pdf {
2     param (
3         [string]$inputFile
4     )
5
6     if (-not $inputFile) {
7         Write-Host "Usage: 2pdf 'inputfile'"
8         return
9     }
10
11     # Ensure the input file exists
12     if (-not (Test-Path $inputFile)) {
13         Write-Host "Error: File '$inputFile' does not exist."
14         return
15     }
16
17     # Determine the output file name by changing the extension to .pdf
18     $outputFile = [System.IO.Path]::ChangeExtension($inputFile, "pdf")
19
20     # Run ebook-convert
21     try {
22         ebook-convert $inputFile $outputFile
23         Write-Host "Converted '$inputFile' to '$outputFile'"
24     } catch {
25         Write-Host "Error: Conversion failed. Ensure 'ebook-convert' is installed and
26         supports the input file format."
27     }
28 }
```

## 4. Commons

- `code` (Open With Visual Studio Code)
- `h` (history)
- `cls` (clear)
- `pwd` print current directory
- `ipconfig /flushdns`
- `netsh interface ip show dns`

- `netsh wlan show profiles`
- `netsh wlan show profile name="wi-fi_Name" key=clear`
- `ping`
- `ssh`
- `ssh-keygen`
- `ftp`
- `robocopy`
- `ps` Get-Process
- `kill` Stop-Process
- `gc -head 10` Get-Content (head)
- `gc -tail 10` Get-Content (tail)
- `Rename-Item old_name new_name` (mv)
- `Get-Alias`

## 5. Git

<https://git-scm.com/downloads/win>

- `.git`
- `.gitignore`

```

1  git init
2  git add # add files to staging area
3  git commit -m "... " # commit to local repo
4
5  git clone
6  git push origin main
7  git push origin
8  git push
9  git pull # fetch and merge
10 git fetch
11 git merge
12 git rebase
13
14 git statsh
15
16 git branch
17 git checkout
18 git merge
19
20 git status
21 git log
22 git diff

```

## 6. Win + R

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- `shell:startup`
- `%USERPROFILE%`
- `%USERPROFILE%/Desktop`
- `%USERPROFILE%/Downloads`
- `%USERPROFILE%/Documents`
- `%USERPROFILE%/Pictures`
- `%ALLUSERSPROFILE%`
- `%APPDATA%`
- `%LOCALAPPDATA%`
- `%WINDIR%`
- `%WINDIR%\system32`
- `%WINDIR%\system32\drivers\etc\hosts`
- `%PROGRAMFILES%`
- `%PROGRAMFILES(X86)%`
- `%TEMP%`