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## 终端的应用

### 1. 命令行 vs 图形化界面 运行中出现问题

```
PS D:\rust\hello_world\hello_cargo> .\code
.\code : 无法将“.\code”项识别为 cmdlet、函数、脚本文件或可运行程序的名称
。请检查名称的拼写，如果包括路径，请确保路径正确，然后再试一次。
所在位置 行:1 字符: 1
+ .\code
+ ~~~~~
+ CategoryInfo          : ObjectNotFound: (.\code:String) [], CommandN
otFoundException
+ FullyQualifiedErrorId : CommandNotFoundException
```

Vscode 作为 code 的命令突然失效 检查了许多次 添加系统变量中的路径也没办法使用 折腾了半天（最后猜想可能是 vscode 的安装路径有问题 但安装过程太过繁琐）仍未解决 最后采用折中的办法 在 powershell 中设置了临时路径

```
PS D:\rust\hello_world\hello_cargo> Set-Alias -Name code -Value "D:\Microsof
t VS Code\code.exe"
PS D:\rust\hello_world\hello_cargo> code
```

在先前 rust 的学习中就发现终端的应用能够大大减轻工作量 但是对于终端的作用还是不太明确 真心觉得图形化窗口太复杂了… 想重装系统

```
[13412:0210/102908.392:ERROR:ssl_client_socket_impl.cc(879)] handshake faile
d; returned -1, SSL error code 1, net_error -101
[13412:0210/102908.437:ERROR:ssl_client_socket_impl.cc(879)] handshake faile
d; returned -1, SSL error code 1, net_error -101
[13412:0210/102908.637:ERROR:ssl_client_socket_impl.cc(879)] handshake faile
d; returned -1, SSL error code 1, net_error -101
[13412:0210/103138.209:ERROR:ssl_client_socket_impl.cc(879)] handshake faile
d; returned -1, SSL error code 1, net_error -101
[13412:0210/103138.422:ERROR:ssl_client_socket_impl.cc(879)] handshake faile
d; returned -1, SSL error code 1, net_error -101
```

设置临时路径之后又多次出现 SSL 握手失败的问题 未解决 不过影响不太 项目能够正常运行

### 2. 命令行窗口的学习

终端—对操作系统发号指令

首先 我很疑惑 为什么 windows 有两个命令窗口 一个 cmd 一个 powershell

Windows has two command-line shells: the Command shell and PowerShell. Each shell is a software program that provides direct communication between you and the operating system or application, providing an environment to automate IT operations.

The Command shell was the first shell built into Windows to automate routine tasks, like user account management or nightly backups, with batch (.bat) files. With Windows Script Host, you could run more sophisticated scripts in the Command shell. For more information, see [cscript](#) or [wscript](#). You can perform operations more efficiently by using scripts than you can by using the user interface. Scripts accept all commands that are available at the command line.

PowerShell was designed to extend the capabilities of the Command shell to run PowerShell commands called cmdlets. Cmdlets are similar to Windows Commands but provide a more extensible scripting language. You can run both Windows Commands and PowerShell cmdlets in PowerShell, but the Command shell can only run Windows Commands and not PowerShell cmdlets.

总结来看 cmd 是最古早的命令行 (DOS 遗留下来的产物) powershell 则是拓展包 有一套自己的语言系统 powershell 的语言和 cmd 的语音都可以使用 是一个完整的脚本语言运行环境

```
PS C:\Users\93917\Desktop> get-alias cd

CommandType      Name
-----
Alias             cd -> Set-Location

PS C:\Users\93917\Desktop> |
```

Alias 别名 比如 cd 和 Set-Location

二者底层逻辑完全不一样 简单的 windows 命令 vs cmdlet.net 包

可以用 get-alias 命令来查看别名关系 其中也有 linux 命令

管道符|

# Get-Process | Sort-Object | Select-Object

```
PS C:\Users\93917\Desktop> Get-ChildItem $env:windir -Filter *.exe | Measure-Object -Sum Length
```

Alias	epcsv -> Export-Csv	
Alias	epsn -> Export-PSSession	
Alias	erase -> Remove-Item	
Alias	etsn -> Enter-PSSession	
Alias	exsn -> Exit-PSSession	
Alias	fc -> Format-Custom	
Alias	fhex -> Format-Hex	3.1.0.0
Alias	fl -> Format-List	
Alias	foreach -> ForEach-Object	
Alias	ft -> Format-Table	
Alias	fw -> Format-Wide	
Alias	gal -> Get-Alias	
Alias	gbp -> Get-PSBreakpoint	
Alias	gc -> Get-Content	
Alias	gcb -> Get-Clipboard	3.1.0.0
Alias	gci -> Get-ChildItem	
Alias	gcm -> Get-Command	
Alias	gcs -> Get-PSCallStack	
Alias	gdr -> Get-PSDrive	
Alias	ghy -> Get-History	
Alias	gi -> Get-Item	
Alias	gin -> Get-ComputerInfo	3.1.0.0
Alias	gjb -> Get-Job	
Alias	gl -> Get-Location	
Alias	gm -> Get-Member	
Alias	gmo -> Get-Module	
Alias	gp -> Get-ItemProperty	
Alias	gps -> Get-Process	
Alias	gpv -> Get-ItemPropertyValue	
Alias	group -> Group-Object	
Alias	gsn -> Get-PSSession	
Alias	gsnp -> Get-PSSnapin	
Alias	gsv -> Get-Service	
Alias	gtz -> Get-TimeZone	3.1.0.0

Alias	rp -> Remove-ItemProperty	
Alias	rsn -> Remove-PSSession	
Alias	rsnp -> Remove-PSSnapin	
Alias	rujb -> Resume-Job	
Alias	rv -> Remove-Variable	
Alias	rvpa -> Resolve-Path	
Alias	rwmi -> Remove-WmiObject	
Alias	sajb -> Start-Job	
Alias	sal -> Set-Alias	
Alias	saps -> Start-Process	
Alias	sasv -> Start-Service	
Alias	sbp -> Set-PSBreakpoint	
Alias	sc -> Set-Content	
Alias	scb -> Set-Clipboard	3.1.0.0
Alias	select -> Select-Object	
Alias	set -> Set-Variable	
Alias	shcm -> Show-Command	
Alias	si -> Set-Item	
Alias	sl -> Set-Location	
Alias	sleep -> Start-Sleep	
Alias	sls -> Select-String	
Alias	sort -> Sort-Object	
Alias	sp -> Set-ItemProperty	
Alias	spjb -> Stop-Job	
Alias	spps -> Stop-Process	
Alias	spsv -> Stop-Service	
Alias	start -> Start-Process	
Alias	stz -> Set-TimeZone	3.1.0.0
Alias	sujb -> Suspend-Job	
Alias	sv -> Set-Variable	
Alias	swmi -> Set-WmiInstance	
Alias	tee -> Tee-Object	
Alias	trcm -> Trace-Command	
Alias	type -> Get-Content	
Alias	wget -> Invoke-WebRequest	
Alias	where -> Where-Object	
Alias	wjb -> Wait-Job	
Alias	write -> Write-Output	

CommandType	Name	Version
Alias	% -> ForEach-Object	
Alias	? -> Where-Object	
Alias	ac -> Add-Content	
Alias	asnp -> Add-PSSnapin	
Alias	cat -> Get-Content	
Alias	cd -> Set-Location	
Alias	CFS -> ConvertFrom-String	3.1.0.0
Alias	chdir -> Set-Location	
Alias	clc -> Clear-Content	
Alias	clear -> Clear-Host	
Alias	clhy -> Clear-History	
Alias	cli -> Clear-Item	
Alias	clp -> Clear-ItemProperty	
Alias	cls -> Clear-Host	
Alias	clv -> Clear-Variable	
Alias	cnsn -> Connect-PSSession	
Alias	code -> code.exe	
Alias	compare -> Compare-Object	
Alias	copy -> Copy-Item	
Alias	cp -> Copy-Item	
Alias	cpi -> Copy-Item	
Alias	cpp -> Copy-ItemProperty	
Alias	curl -> Invoke-WebRequest	
Alias	cvpa -> Convert-Path	
Alias	dbp -> Disable-PSBreakpoint	
Alias	del -> Remove-Item	
Alias	diff -> Compare-Object	
Alias	dir -> Get-ChildItem	
Alias	dnsn -> Disconnect-PSSession	
Alias	ebp -> Enable-PSBreakpoint	
Alias	echo -> Write-Output	
Alias	epal -> Export-Alias	
Alias	epcsv -> Export-Csv	
Alias	epsn -> Export-PSSession	
Alias	erase -> Remove-Item	
Alias	etsn -> Enter-PSSession	

### 3. 常用操作

#### 1. 目录跳转

- 1) 有关命令: cd
- 2) 有关参数: 文件夹路径
- 3) 用法实例: cd /D d:/demo 等于 d:+cd demo
- 4) 切换当前 cmd 的工作路径到 D 盘的 demo 文件夹下; 路径可用文件夹的相对路径也可以使用文件夹在磁盘的绝对路径。

#### 2. 新建文件夹

- 1) 有关命令: md 或者 mkdir
- 2) 常用参数: 新建文件夹名字
- 3) 用法实例: mkdir d:\demo
- 4) mkdir d:\demo 命令可以在 D 盘根目录下新建一个叫做 demo 的文件夹

#### 3. 查看树结构

- 1) 有关命令: tree
- 2) 常用参数: /f 文件夹路径/文件名
- 3) 用法实例: tree d:\demo
- 4) tree d:\demo 可以查看 demo 目录下的目录层级结构 (不显示单独的文件), 加上 /f 参数可以将单个文件也显示到文档树

#### 4. mv-修改文件名称

#### 5. pip install- 下载

#### 6. app—version 查看 app 版本