

終端機操作設定分享

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Bash & Zsh

Bash

是Unix Shell , 為大多數Linux 與Mac 預設Shell

<https://zh.wikipedia.org/wiki/Bash>

Zsh

Z shell 對Bourne shell做出了大量改進, 同時加入了Bash、ksh及tcsh的某些功能

https://zh.wikipedia.org/wiki/Z_shell

Linux 檔案結構

常見目錄操作指令

pwd => 目前所在位置

cd => 切換目錄

. => 目前目錄

.. => 目前目錄的上一層

ls 列表指令

d	rwxr-xr-x	2	root	root	4096	Jul 30 02:03	bin
類別	屬性	連結之節 點數	所有人	群組	大小	上次修改 時間	名稱

rwX	r-X	r-X
本人屬性	群組屬性	其他人屬性

http://linux.vbird.org/linux_basic/0220filemanager.php#ls

chmod 變更屬性

ex: chmod 755

本人屬性		
R	W	X
1	1	1
7		

群組屬性		
R	W	X
1	0	1
5		

其他人屬性		
R	W	X
1	0	1
5		

指令概述

cat => 檢視檔案內容

tac => 反向檢視(最後一行開始)

nl => 添加行號列印

more => 一頁一頁翻動

less => 一頁一頁翻動(可使用[pagedown] [pageup])

head => 取出前面幾行資料

tail => 取出後面幾行資料

cp => 複製

mv => 移動(更名)

rm => 刪除

補充危險指令 <https://blog.hcl.moe/archives/227>

詳細指令說明 http://linux.vbird.org/linux_basic/0220filemanager.php

實作時間



Ubuntu install Zsh

簡易安裝說明

<https://www.zephyrcoding.com/zsh-2/>

PS:字體記得要先下載安裝

<https://supr.link/TGDGE>

Zsh 安裝步驟

1. `sudo apt-get update`
2. `sudo apt-get upgrade`
3. `sudo apt-get install zsh`
4. `sudo apt-get install git`

- 查看是否安裝zsh

```
cat /etc/shells
```

- 變更預設

```
chsh -s /bin/zsh
```

設定後重新登入

- 安裝 oh-my-zsh 套件

```
#use wget
```

```
sh -c "$(wget https://raw.githubusercontent.com/robbyrussell/oh-my-zsh/master/tools/install.sh -O -)"
```

美化佈景主題

- 官方主題庫

<https://github.com/robbyrussell/oh-my-zsh/wiki/External-themes>

- 使用powerlevel9k

<https://github.com/bhilburn/powerlevel9k>

- 預設安裝位置

/home/users/.oh-my-zsh/custom/themes

- 安裝powerlevel9k

git clone <https://github.com/bhilburn/powerlevel9k.git> ~/.oh-my-zsh/custom/themes/powerlevel9k

- 設定佈景主題使用powerlevel9k

sudo nano ~/.zshrc

找到ZSH_THEME, 修改成ZSH_THEME="powerlevel9k/powerlevel9k"

- 套用

source ~/.zshrc

安裝字型

1. powerline

`sudo apt-get install powerline fonts-powerline`

重開終端機

2. NERD Font (<https://github.com/ryanoasis/nerd-fonts>)

下載點 <https://supr.link/TGDGE>

`sudo ./install.sh`

至zshrc 設置(需在`ZSH_THEME="powerlevel9k/powerlevel9k"` 之前)

`POWERLEVEL9K_MODE='nerdfont-complete'`

設定powerlevel9k 1/3

```
POWERLEVEL9K_BATTERY_CHARGING='yellow'
```

```
POWERLEVEL9K_BATTERY_CHARGED='green'
```

```
POWERLEVEL9K_BATTERY_DISCONNECTED='$DEFAULT_COLOR'
```

```
POWERLEVEL9K_BATTERY_LOW_THRESHOLD='10'
```

```
POWERLEVEL9K_BATTERY_LOW_COLOR='red'
```

```
POWERLEVEL9K_BATTERY_ICON='\uf1e6 '
```

```
POWERLEVEL9K_MULTILINE_FIRST_PROMPT_PREFIX=""
```

```
POWERLEVEL9K_MULTILINE_LAST_PROMPT_PREFIX='\uf0da'
```

設定powerlevel9k 2/3

```
POWERLEVEL9K_VCS_MODIFIED_BACKGROUND='yellow'
```

```
POWERLEVEL9K_VCS_UNTRACKED_BACKGROUND='yellow'
```

```
#POWERLEVEL9K_VCS_UNTRACKED_ICON='?'
```

```
POWERLEVEL9K_LEFT_PROMPT_ELEMENTS=(status os_icon battery context dir vcs)
```

```
POWERLEVEL9K_RIGHT_PROMPT_ELEMENTS=(time background_jobs ram virtualenv rbenv rvm)
```

```
POWERLEVEL9K_SHORTEN_STRATEGY="truncate_middle"
```

```
POWERLEVEL9K_SHORTEN_DIR_LENGTH=4
```


設定powerlevel9k 3/3

```
POWERLEVEL9K_TIME_FORMAT="%D{\uf017 %H:%M \uf073 %d.%m.%y}"
```

```
POWERLEVEL9K_STATUS_VERBOSE=false
```

```
POWERLEVEL9K_PROMPT_ON_NEWLINE=true
```

設定完成後套用

```
source ~/.zshrc
```

樣式參考

<https://github.com/bhilburn/powerlevel9k/wiki/Show-Off-Your-Config>

第三方套件

安裝第三方套件

官方套件推薦列表

<https://github.com/robbyrussell/oh-my-zsh/wiki/Plugins>

<https://github.com/robbyrussell/oh-my-zsh/wiki/Plugins-Overview>

PS: git 已安裝

推薦安裝第三方套件

zsh-autosuggestions

<https://github.com/zsh-users/zsh-autosuggestions/blob/master/INSTALL.md>

zsh-completions

<https://github.com/zsh-users/zsh-completions>

zsh-syntax-highlighting

<https://github.com/zsh-users/zsh-syntax-highlighting/blob/master/INSTALL.md>

zsh-completions

安裝方式

```
git clone https://github.com/zsh-users/zsh-completions ${ZSH_CUSTOM:=~/.oh-my-zsh/custom}/plugins/zsh-completions
```

設定/.zshrc

```
plugins=(... zsh-completions)
```

```
autoload -U compinit && compinit
```

zsh-autosuggestions

安裝方式

```
git clone https://github.com/zsh-users/zsh-autosuggestions ${ZSH_CUSTOM:-~/.oh-my-zsh/custom}/plugins/zsh-autosuggestions
```

設定/.zshrc

```
plugins=(zsh-autosuggestions)
```

zsh-syntax-highlighting

安裝方式

```
git clone https://github.com/zsh-users/zsh-syntax-highlighting.git
```

設定/.zshrc

```
echo "source ${(%q-)PWD}/zsh-syntax-highlighting/zsh-syntax-highlighting.zsh" >> ${ZDOTDIR:-$HOME}/.zshrc
```

套用

```
source ~/.zshrc
```

指令練習

1/2

```
mkdir test
```

```
cp ~/.bashrc test/bashrc
```

```
mv bashrc bashrc1
```

```
cat bashrc1
```

```
tail bashrc1
```

```
cp bashrc1 bashrc2
```

```
mkdir a1
```


指令練習 2/2

```
mv bashrc1 bashrc2 a1
```

```
cd a1
```

```
ls -l
```

```
cd ..
```

```
rm -r a1
```

補充資料

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Windows 終端機

有Dos 和 PowerShell

介面無法調整

Linux 下好用的指令無法通用

Cmdr

<https://cmdr.net/>

參考介紹文章

<https://blog.miniasp.com/post/2015/09/27/Useful-tool-Cmdr>

<https://mousyball.github.io/2018/02/12/my-vscode-setting/>

Mac 終端機美化

使用iTerm + oh-my-zsh

安裝套件管理員

- Homebrew https://brew.sh/index_zh-tw

安裝 iTerm2

- brew cask install iTerm2

安裝Zsh

```
brew install zsh
```

安裝 Oh My Zsh

```
sh -c “$(curl -fsSL https://raw.githubusercontent.com/robbyrussell/oh-my-zsh/master/tools/install.sh)”
```

安裝字型

brew tap caskroom/fonts (開啟brew可安裝字型)

brew cask install font-hack-nerd-font

brew cask search nerd (瀏覽nerd系列字型)

安裝主題

powerlevel9k

git clone <https://github.com/bhilburn/powerlevel9k.git> ~/.oh-my-zsh/custom/themes/powerlevel9k

修改主題

```
sudo nano ~/.zshrc
```

```
POWERLEVEL9K_MODE='nerdfont-complete'
```

```
ZSH_THEME="powerlevel9k/powerlevel9k"
```

立即套用

```
exec $SHELL
```

設定檔參照上面

Mac 設定參考資料

<https://medium.com/statementdog-engineering/prettify-your-zsh-command-line-prompt-3ca2acc967f>

<https://andy6804tw.github.io/2018/01/01/iterm2-zsh-intro/>

<https://ithelp.ithome.com.tw/articles/10192874>