



終端機操作設定分享

Bash & Zsh

- Bash是Unix Shell ，為大多數Linux 與Mac 預設Shell
 - <https://zh.wikipedia.org/wiki/Bash>
- Z shell(Zsh) 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

補指令圖

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

Chmode 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		

其餘常用指令概述(1/2)

- `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

其餘常用指令概述(2/2)

- 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


```
source ~/.zshrc

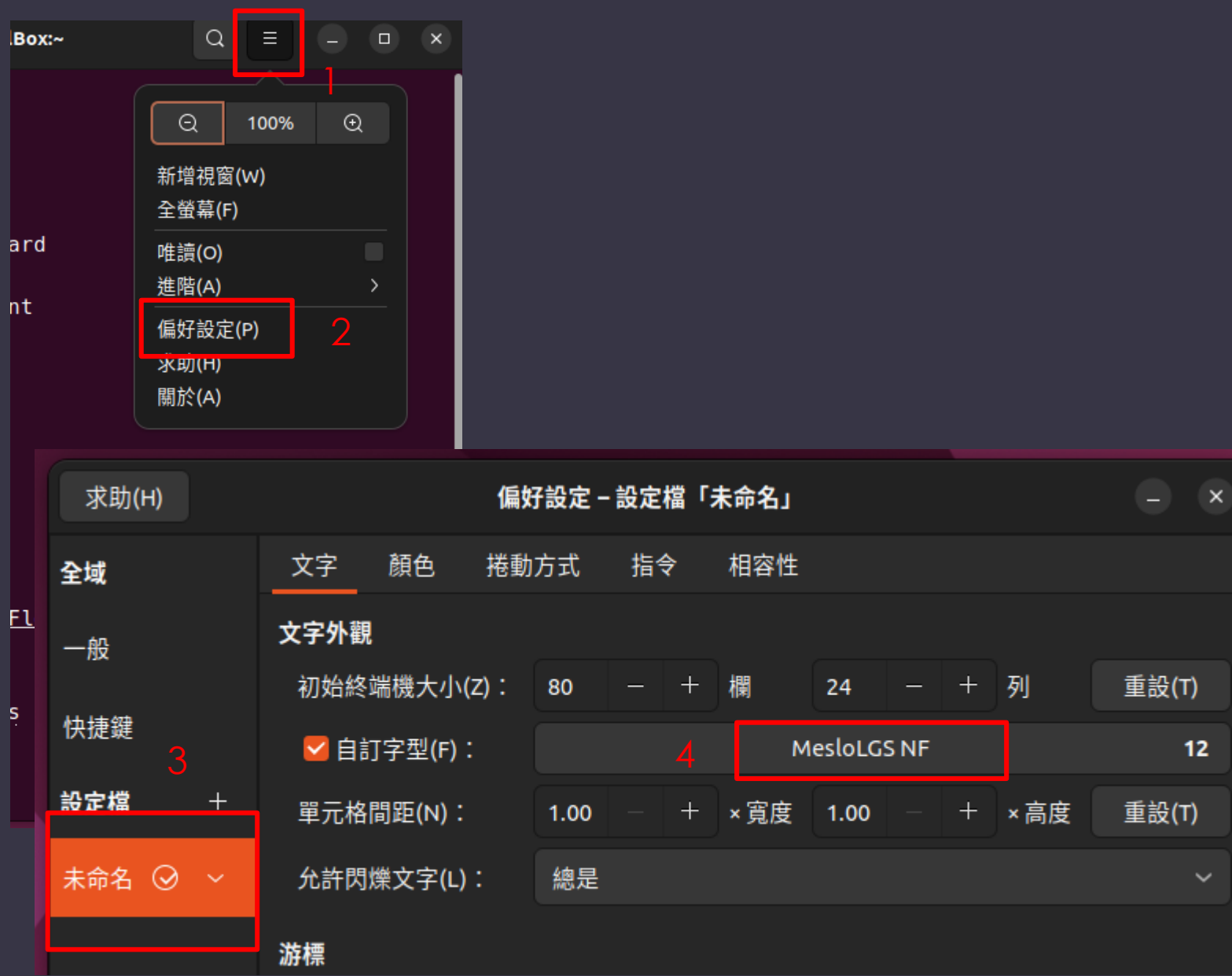
cd > 100% ~/Desktop/test 14:17 05.06.19 0.18G
cd > 100% ~/Desktop/test 14:17 05.06.19 0.18G
ld
ld: no input files
rm -r a1 > 100% ~/Desktop/test 14:17 05.06.19 0.18G
ls > 100% ~/Desktop/test 14:18 05.06.19 0.18G

> 100% ~/Desktop/test 14:19 05.06.19 0.21G
> 100% ~/Desktop/test 14:19 05.06.19 0.21G
> 100% ~/Desktop/test 14:19 05.06.19 0.21G

> 100% ~/Desktop/test 14:19 05.06.19 0.21G
> 100% ~/Desktop/test 14:19 05.06.19 0.21G
```

安裝字形

- [MesloLGS NF Regular.ttf](#)
- [MesloLGS NF Bold.ttf](#)
- [MesloLGS NF Italic.ttf](#)
- [MesloLGS NF Bold Italic.ttf](#)



Zsh 安裝步驟

1. 簡介: https://zh.wikipedia.org/zh-tw/Z_shell
2. `sudo apt-get update`
3. `sudo apt-get upgrade`
4. `sudo apt-get install zsh git curl`

Zsh 安裝步驟

- 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
- `sh -c "$(curl -fsSL https://raw.githubusercontent.com/ohmyzsh/ohmyzsh/master/tools/install.sh)"`

美化佈景主題

- 官方主題庫
- <https://github.com/robbyrussell/oh-my-zsh/wiki/External-themes>
- 使用powerlevel10k
- <https://github.com/romkatv/powerlevel10k>
- 預設安裝位置
- /home/users/.oh-my-zsh/custom/themes

- 安裝**powerlevel10k**

- `git clone --depth=1 https://github.com/romkatv/powerlevel10k.git ${ZSH_CUSTOM:-$HOME/.oh-my-zsh/custom}/themes/powerlevel10k`

- 設定佈景主題使用**powerlevel10k**

- `sudo nano ~/.zshrc`

- 找到ZSH_THEME，修改成
`ZSH_THEME="powerlevel10k/powerlevel10k"`

- 套用

- `source ~/.zshrc`

Segment	Meaning
anaconda	virtual environment from conda
asdf	tool versions from asdf
aws	aws profile
aws_eb_env	aws elastic beanstalk environment
azure	azure account name
background_jobs	presence of background jobs
battery	internal battery state and charge level (yep, batteries <i>literally</i> included)
command_execution_time	duration (wall time) of the last command
context	user@hostname
cpu_arch	CPU architecture
dir	current working directory
direnv	direnv status
disk_usage	disk usage
dotnet_version	dotnet version
fvm	flutter environment from fvm
gcloud	google cloud cli account and project
goenv	go environment from goenv
google_app_cred	google application credentials
go_version	go version
haskell_stack	haskell version from stack
ip	IP address and bandwidth usage for a specified network interface

java_version	java version
jenv	java environment from jenv
kubecontext	current kubernetes context
laravel_version	laravel php framework version
load	CPU load
luaenv	lua environment from luaenv
midnight_commander	midnight commander shell
nix_shell	nix shell indicator
nnn	nnn shell
lf	lf shell
nodeenv	node.js environment from nodeenv
nodenv	node.js environment from nodenv
node_version	node.js version
nordvpn	nordvpn connection status
nvm	node.js environment from nvm
os_icon	your OS logo (apple for macOS, swirl for debian, etc.)
package	name@version from package.json
perlbrew	perl version from perlbrew
phpenv	php environment from phpenv
php_version	php version
plenv	perl environment from plenv
prompt_char	multi-functional prompt symbol; changes depending on vi mode: >, <, V,  for insert, command, visual and replace mode respectively; turns red on error

proxy	system-wide http/https/ftp proxy
public_ip	public IP address
pyenv	python environment from pyenv
ram	free RAM
ranger	ranger shell
rbenv	ruby environment from rbenv
rust_version	rustc version
rvm	ruby environment from rvm
scalaenv	scala version from scalaenv
status	exit code of the last command
swap	used swap
taskwarrior	taskwarrior task count
terraform	terraform workspace
terraform_version	terraform version
time	current time

timewarrior	timewarrior tracking status
todo	todo items
toolbox	toolbox name
vcs	Git repository status
vim_shell	vim shell (:sh)
virtualenv	python environment from venv
vi_mode	vi mode (you don't need this if you've enabled prompt_char)
vpn_ip	virtual private network indicator
wifi	WiFi speed
xplr	xplr shell

Powerlevel10K修改

- 修改顏色
- 應用 `source ~/.p10k.zsh`
- ```
for i in {0..255}; do print -Pn "%K{$i} %k%F{$i}${(l:3::0:)i}%f " ${${(M)${(i%6)}:#3}:+$'\n'};
done
```
- [https://blog.csdn.net/qq\\_36835255/article/details/128101588](https://blog.csdn.net/qq_36835255/article/details/128101588)

# 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>

# 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`

# zsh-autosuggestions

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

# zsh-syntax-highlighting

- 安裝方式
- `git clone https://github.com/zsh-users/zsh-syntax-highlighting.git` `${ZSH_CUSTOM:-~/.oh-my-zsh/custom}/plugins/zsh-syntax-highlighting`

# 設定套件

- 開啟設定.zshrc

Sudo nano ~/.zshrc

- 找到 plugins 字樣新增套件名稱

```
plugins=(git
 zsh-syntax-highlighting
 zsh-autosuggestions
 zsh-completions)
```

- 重新載入

source ~/.zshrc

# 指令練習 1/3

- `mkdir test`
- `cp ~/.bashrc test/bashrc`
- `cd test`
- `ls -l`
- `mv bashrc bashrc1` `ls -l`
- `cat bashrc1`
- `tail bashrc1`



# 指令練習 2/3

- `cp bashrc1 bashrc2`
- `ls -l`
- `mkdir a1`
- `ls -l`
- `mv bashrc1 bashrc2 a1`
- `cd a1`
- `ls -l`

# 指令練習 3/3

- `cd ..`
- `rm -r a1`

# 使用git 測試成果

- 下載程式碼
- git clone <https://github.com/yuanfu8899/Digital-rain.git>
- CD Digital-rain
- 執行
- firefox index.html
- 修改成自己的風格(index.html ; index.jsp)