



# Tutorial 1

## Linux/Unix Instructions

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# Outline

- Pros and cons of Linux system
- Unix 指令
- Change email address on Moodle

# Pros and cons of Linux system

## □ Advantage

- 系統具高穩定性
- 多工且多使用者
- 方便管理群組
- 容易進行版本控制
- 業界常用的作業系統

## □ Disadvantage

- 圖形化介面不夠平易近人
- 需花時間學習使用指令



# Outline

- Pros and cons of Linux system
- Unix 指令
- Change email address on Moodle

# ls (list)

## □ % ls

- shows you all files and directories

## □ % ls -a

- shows you all files, even files that are hidden

## □ % ls -l

- shows you huge amounts of information (permissions, owners, size, and when last modified.)

-a : all

-l : long listing format

```
vlasicad5:/home/user2/ms104/patty% ls
local.cshrc  local.profile  ??????/  ??????/  ??????/  ??????/
local.login  ??????/  ??????/  ??????/  ??????/

vlasicad5:/home/user2/ms104/patty% ls -a
./          .gnote/      .synopsys_dc.setup~
../         .gnupg/      .xsession-errors
.ICEauthority .gstreamer-0.10/ .xsession-errors.old
.Xauthority .gtk-bookmarks local.cshrc
.abrt/      .gvfs/       local.login
.cache/     .history     local.profile
.config/    .imsettings.log ??????/
.cshrc      .local/      ??????/
.cshrc~     .nautilus/   ??????/
.dbus/      .profile     ??????/
.gconf/     .pulse-cookie ??????/
.gconfd/    .recently-used ??????/
.gnome/     .ssh/        ??????/
.gnome2/    .sunw/       ??????/
.gnome2_private/ .synopsys_dc.setup
vlasicad5:/home/user2/ms104/patty% ls -l
total 88
-rw-r--r-- 1 patty stapdev 136 Jan 19 15:29 local.cshrc
-rw-r--r-- 1 patty stapdev 157 Jan 19 15:29 local.login
-rw-r--r-- 1 patty stapdev 174 Jan 19 15:29 local.profile
drwxr-xr-x 2 patty stapdev 512 Jan 19 15:53 ??????/
drwxr-xr-x 2 patty stapdev 512 Jan 19 15:53 ??????/
drwxr-xr-x 2 patty stapdev 512 Jan 19 15:53 ??????/
drwxr-xr-x 2 patty stapdev 512 Jan 19 15:53 ??????/
drwxr-xr-x 2 patty stapdev 512 Jan 19 15:53 ??????/
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drwxr-xr-x 2 patty stapdev 512 Jan 19 15:53 ??????/
drwxr-xr-x 2 patty stapdev 512 Jan 19 15:53 ??????/
vlasicad5:/home/user2/ms104/patty% █
```

# mkdir (make directory)

- ❑ % mkdir Lab1
  - ❑ create a Lab1 directory

```
vlsicad5:/home/user2/ms104/patty% mkdir Lab1
vlsicad5:/home/user2/ms104/patty% ls
Lab1/      local.login  ???????/  ???????/  ???????/  ???????/
local.cshrc local.profile ???????/  ???????/  ???????/  ???????/
vlsicad5:/home/user2/ms104/patty% █
```

# cd (change directory)

- ❑ % cd ..
  - ❑ go back to last directory
- ❑ % cd ~
  - ❑ go back to home directory
- ❑ % cd Lab1
  - ❑ go to Lab1 directory

```
vlsicad5:/home/user2/ms104/patty% cd ..  
vlsicad5:/home/user2/ms104/ cd ~  
vlsicad5:/home/user2/ms104/patty/ cd Lab1/  
vlsicad5:/home/user2/ms104/patty/Lab1/ █
```

# pwd (print working directory)

❑ % pwd

❑ show the path of the current working directory

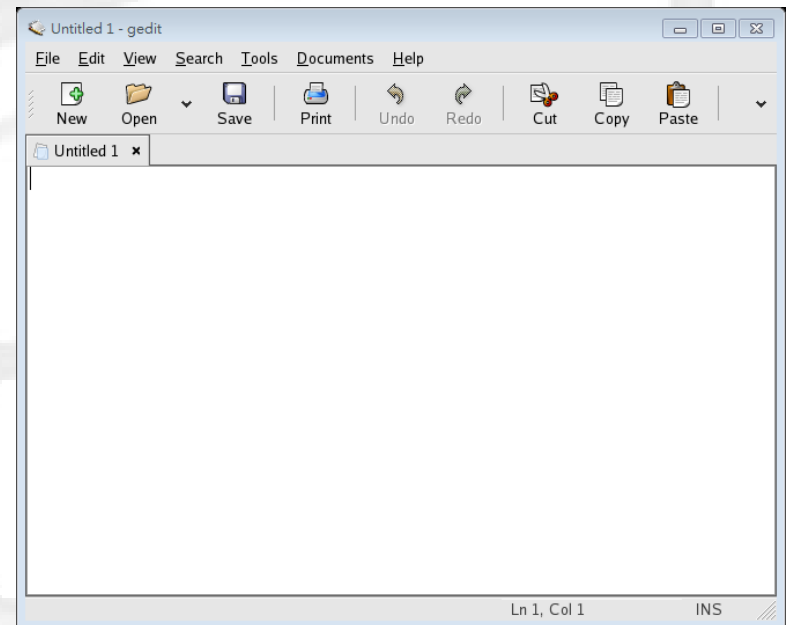
```
||vlsicadb:/home/user2/ms104/patty/Lab1/ pwd  
|/home/user2/ms104/patty/Lab1  
||vlsicadb:/home/user2/ms104/patty/Lab1/ █
```



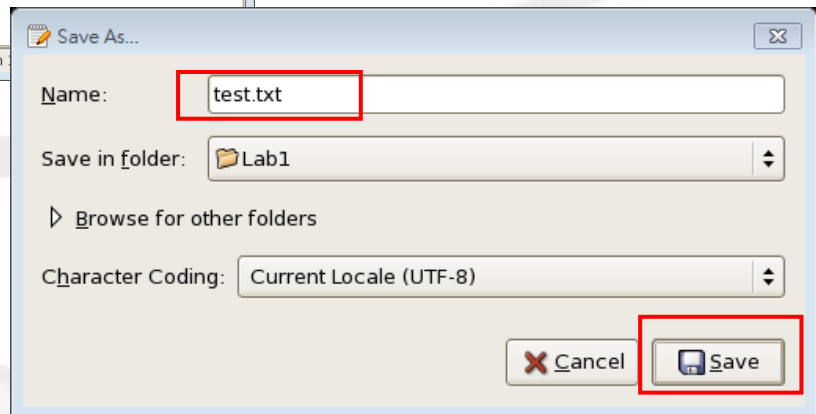
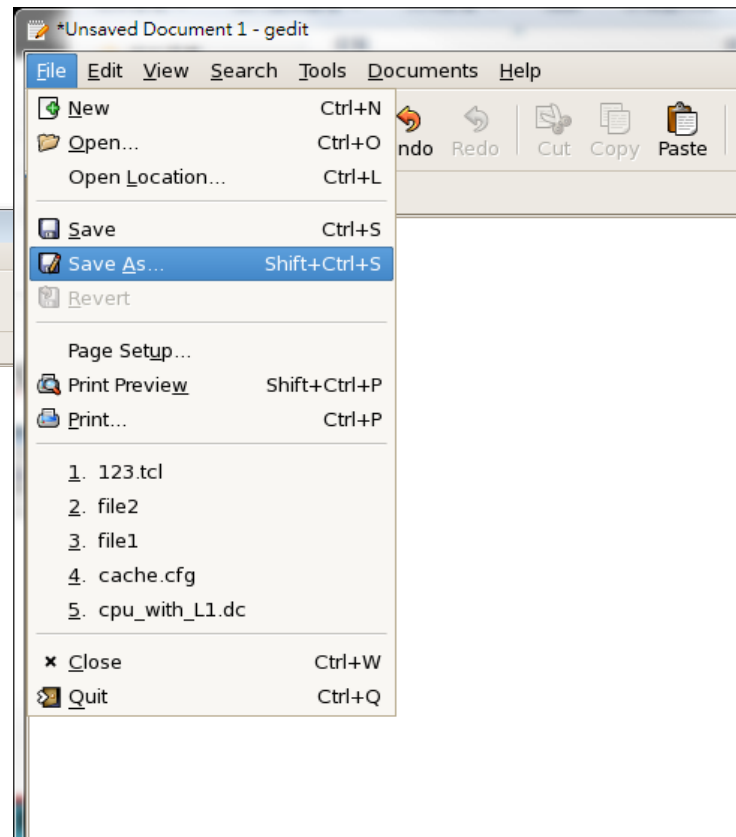
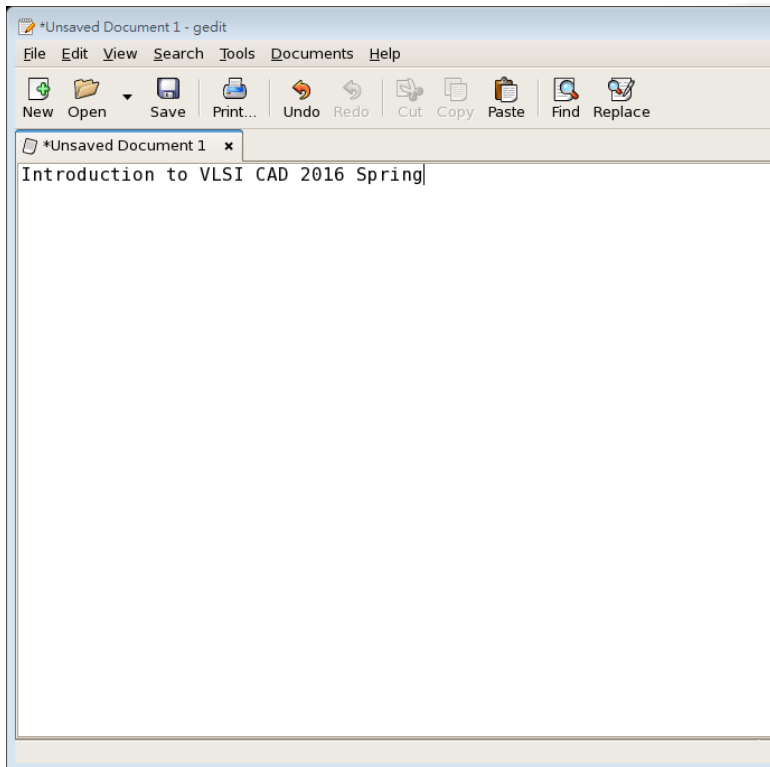
# gedit (gui editor) (1/3)

- ❑ % gedit
- ❑ % gedit &
  - ❑ & -> executes in the background

```
vlsicad5:/home/user2/ms104/patty/Lab1/ gedit
vlsicad5:/home/user2/ms104/patty/Lab1/ gedit&
[1] 27417
vlsicad5:/home/user2/ms104/patty/Lab1/ █
```



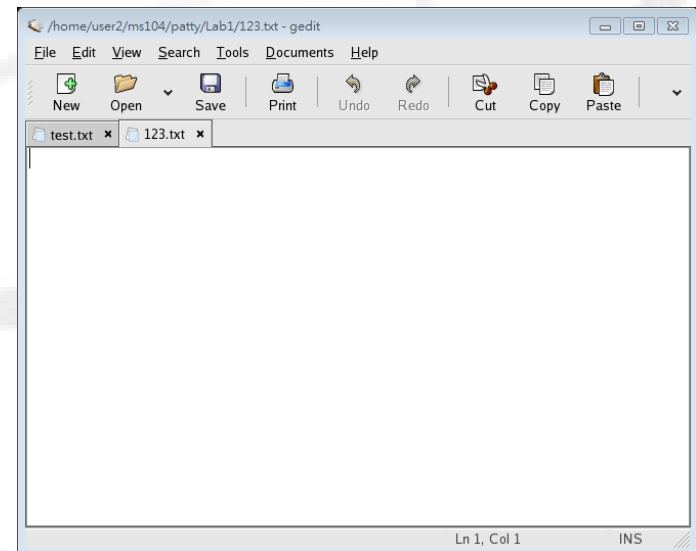
# gedit (2/3)



## gedit (3/3)

- ❑ % gedit test.txt &
  - ❑ open the exist file test.txt by gedit
- ❑ % gedit 123.txt &
  - ❑ open a new file named 123.txt by gedit

```
vlsicad5:/home/user2/ms104/patty/Lab1/ gedit test.txt &  
[1] 27434  
vlsicad5:/home/user2/ms104/patty/Lab1/ █
```



# more

❑ % more test.txt

❑ displays content in the file on the terminal

```
vlsicad5:/home/user2/ms104/patty/Lab1/ more test.txt
Introduction to VLSI CAD 2016 Spring
vlsicad5:/home/user2/ms104/patty/Lab1/
```

# cp (copy)

❑ % **cp test.txt homework.txt**

❑ copy file from test.txt to homework.txt

❑ % **cp -r Lab1 Lab2**

-r : recursive

❑ copy all subdirectories and files under Lab1 directory to Lab2 directory

```
vlsicad5:/home/user2/ms104/patty/Lab1/ cp test.txt homework.txt
vlsicad5:/home/user2/ms104/patty/Lab1/ ls
homework.txt  test.txt
vlsicad5:/home/user2/ms104/patty/Lab1/ cd ..
vlsicad5:/home/user2/ms104/patty/ cp -r Lab1 Lab2
vlsicad5:/home/user2/ms104/patty/ ls
Lab1/         local.login   ???????/   ???????/   ???????/
Lab2/         local.profile ???????/   ???????/
local.cshrc   ???????/    ???????/   ???????/
vlsicad5:/home/user2/ms104/patty/ █
```



# mv (move)

- ❑ % mv test.txt hw1.txt
  - ❑ modify test.txt to hw1.txt
- ❑ % mv hw1.txt ../Lab2
  - ❑ move hw1.txt to Lab2 directory
- ❑ % mv Lab2 Lab3
  - ❑ modify Lab2 directory to Lab3 directory

```

vlsicad5:/home/user2/ms104/patty/ cd Lab1
vlsicad5:/home/user2/ms104/patty/Lab1/ mv test.txt hw1.txt
vlsicad5:/home/user2/ms104/patty/Lab1/ ls
homework.txt hw1.txt
vlsicad5:/home/user2/ms104/patty/Lab1/ mv hw1.txt ../Lab2
vlsicad5:/home/user2/ms104/patty/Lab1/ cd ..
vlsicad5:/home/user2/ms104/patty/ cd Lab2
vlsicad5:/home/user2/ms104/patty/Lab2/ ls
homework.txt hw1.txt test.txt
vlsicad5:/home/user2/ms104/patty/Lab2/ cd ..
vlsicad5:/home/user2/ms104/patty/ mv Lab2 Lab3
vlsicad5:/home/user2/ms104/patty/ ls
Lab1/      local.login  ???????/  ???????/  ???????/
Lab3/      local.profile  ???????/  ???????/
local.cshrc  ???????/    ???????/  ???????/
vlsicad5:/home/user2/ms104/patty/ █

```

# rm (remove)

- ❑ % rm homework.txt
  - ❑ delete homework.txt file
- ❑ % rm -r Lab3
  - ❑ delete Lab3 directory

```

vlsicad5:/home/user2/ms104/patty/ cd Lab3
vlsicad5:/home/user2/ms104/patty/Lab3/ rm homework.txt
rm: remove regular file `homework.txt'? yes
vlsicad5:/home/user2/ms104/patty/Lab3/ ls
hw1.txt  test.txt
vlsicad5:/home/user2/ms104/patty/Lab3/ cd ..
vlsicad5:/home/user2/ms104/patty/ rm -r Lab3
rm: descend into directory `Lab3'? yes
rm: remove regular file `Lab3/test.txt'? yes
rm: remove regular file `Lab3/hw1.txt'? yes
rm: remove directory `Lab3'? yes
vlsicad5:/home/user2/ms104/patty/ ls
Lab1/      local.login      ???????/  ???????/  ???????/  ???????/
local.cshrc local.profile    ???????/  ???????/  ???????/  ???????/
vlsicad5:/home/user2/ms104/patty/ █

```

# rmdir (remove directory)

❑ % rmdir Lab4

❑ delete **empty** directory Lab4

```

vlsicad5:/home/user2/ms104/patty/ mkdir Lab4
vlsicad5:/home/user2/ms104/patty/ ls
Lab1/      local.login  ???????/  ???????/  ???????/
Lab4/      local.profile ???????/  ???????/
local.cshrc ???????/      ???????/  ???????/
vlsicad5:/home/user2/ms104/patty/ rmdir Lab4
vlsicad5:/home/user2/ms104/patty/ ls
Lab1/      local.login  ???????/  ???????/  ???????/  ???????/
local.cshrc local.profile ???????/  ???????/  ???????/  ???????/
vlsicad5:/home/user2/ms104/patty/ █

```

# tar

❑ % tar **-cvf** Lab1.tar Lab1

❑ compress Lab1 to Lab1.tar

❑ % tar **-xvf** Lab1.tar

❑ decompress Lab1.tar to the original directory

-c : create file  
-v : show the info.  
-f : following is the file name  
-x : decompress file

```
vlasicad5:/home/user2/ms104/patty/ tar -cvf Lab1.tar Lab1
Lab1/
Lab1/homework.txt
vlasicad5:/home/user2/ms104/patty/ ls
Lab1/      local.login      ???????/  ???????/  ???????/
Lab1.tar   local.profile    ???????/  ???????/
local.cshrc ???????/        ???????/  ???????/
vlasicad5:/home/user2/ms104/patty/ rm -r Lab1
rm: descend into directory `Lab1'? yes
rm: remove regular file `Lab1/homework.txt'? yes
rm: remove directory `Lab1'? yes
vlasicad5:/home/user2/ms104/patty/ tar -xvf Lab1.tar
Lab1/
Lab1/homework.txt
vlasicad5:/home/user2/ms104/patty/ ls
Lab1/      local.login      ???????/  ???????/  ???????/
Lab1.tar   local.profile    ???????/  ???????/
local.cshrc ???????/        ???????/  ???????/
vlasicad5:/home/user2/ms104/patty/ █
```

# passwd

- ❑ % passwd
  - ❑ change password

```
#####
# Welcome to SoCLab-I !                                     #
# Available Workstations(Solaris): vlsicad1, vlsicad2, vlsicad3 #
# Tools: HSPICE, Laker, Verdi, SOCE, ModelSim, verilogXL, Calibre, #
#       DesignVision                                         #
# Available Workstations(Linux): vlsicad6                     #
# Tools: MathLab, ColWare2005, verilogXL, gcc/g++            #
#                                                             #
# Quota: 100 MB for each account!                             #
# When leaving, LOGOUT and SHUTDOWN the computer please!    #
# If there r any problem, contact Room 95316 please, thx!     #
# Email: soclab01@lpvlsi.ee.ncku.edu.tw                       #
#####
vlsicad2:/home/user2/ms104/patty% passwd
passwd: Changing password for patty
Enter existing login password:
New Password:
Re-enter new Password:
passwd: password successfully changed for patty
vlsicad2:/home/user2/ms104/patty% █
```



# Useful Tips (1/2)

- ❑ **Ctrl + c**
  - ❑ Terminate current task
- ❑ **Tab**
  - ❑ Autocomplete your command
- ❑ **↑**
  - ❑ show previous command

# Useful Tips (2/2)

## ❑ --help

❑ show you the usage of the command

❑ % **rm --help**

```
vlsicad5:/home/user2/ms104/patty/ rm --help
Usage: rm [OPTION]... FILE...
Remove (unlink) the FILE(s).

  -d, --directory      unlink FILE, even if it is a non-empty directory
                        (super-user only; this works only if your system
                        supports 'unlink' for nonempty directories)
  -f, --force          ignore nonexistent files, never prompt
  -i, --interactive    prompt before any removal
                        --no-preserve-root do not treat '/' specially (the default)
                        --preserve-root  fail to operate recursively on '/'
  -r, -R, --recursive  remove the contents of directories recursively
  -v, --verbose        explain what is being done
                        --help        display this help and exit
                        --version    output version information and exit
```

To remove a file whose name starts with a '-', for example '-foo',  
use one of these commands:

```
rm -- -foo
```

```
rm ./-foo
```

# Outline

- Pros and cons of Linux system
- Unix 指令
- Change email address on Moodle

# Change email address on Moodle (1/2)

NCKU Moodle 正體中文 (zh\_tw)

首頁 個人化首頁

個人化首頁(Dashboard) 行事曆(Calendar) 使用教學(Instruction Manual) 防疫期間成大線上教學建議方案

新增「HSP 互動內容」模組

「HSP 互動內容」模組可在影片中加入互動內容，例如：單選題、多重選擇題...等等，讓學習者除了觀看影片，也可進行簡單互動，以提升學習效率。

詳細說明

1 2 3 4 5 6 7

**學生端操作(教學影片)**

- 學生請於平臺[編修個人資料](#)，改成自己常用的信箱，以順利收到課程通知信件。
- 新生的信箱預設值是Google Workspace 帳號（學號@gs.ncku.edu.tw），第一次使用需先登入「[成功入口](#)」進行啟用後，才能取得GS信箱帳號登入密碼。

最新消息與公告/News

FAQ常見問題  
1 篇未閱讀的貼文

問題反映專區/Ask Question  
7篇未閱讀的貼文

課程類別

▶ 1101

我的課程

個人化首頁 簡歷 成績 訊息 偏好 登出

操作教學(Guidance)

防疫期間成大線上教學建議方案 (Learning proposed solution for COVID-19)

Webex相關停止教學

展開全部

# Change email address on Moodle (2/3)

## 偏好

### 用戶帳號

編修個人資料

更改密碼

偏愛的語言

討論區偏好

編輯器偏好

課程偏好

行事曆偏好設定

安全密鑰

訊息偏好

通知提醒的偏好

### 學習歷程檔案

設定

匯出紀錄



# Change email address on Moodle (3/3)

## □ Email address

- Default: School Gsuite email address
- Suggestion: Email address that you won't lose any important notification

### ▼ 一般

名字



電子郵件信箱



顯示電子郵件信箱



只允許課程同學看到我的電子郵件信箱



縣/市

選擇一個國家

台灣



時區

伺服器的時區(Asia/Taipei)





**Thanks for your  
participation and  
attendance !**