

101: Software, OS

June, 2023



自己紹介

- “Mr. Luo”, ロウ ← 広東語発音
- <https://jing.rocks/> ← 個人ブログ. web server, file server, etc.

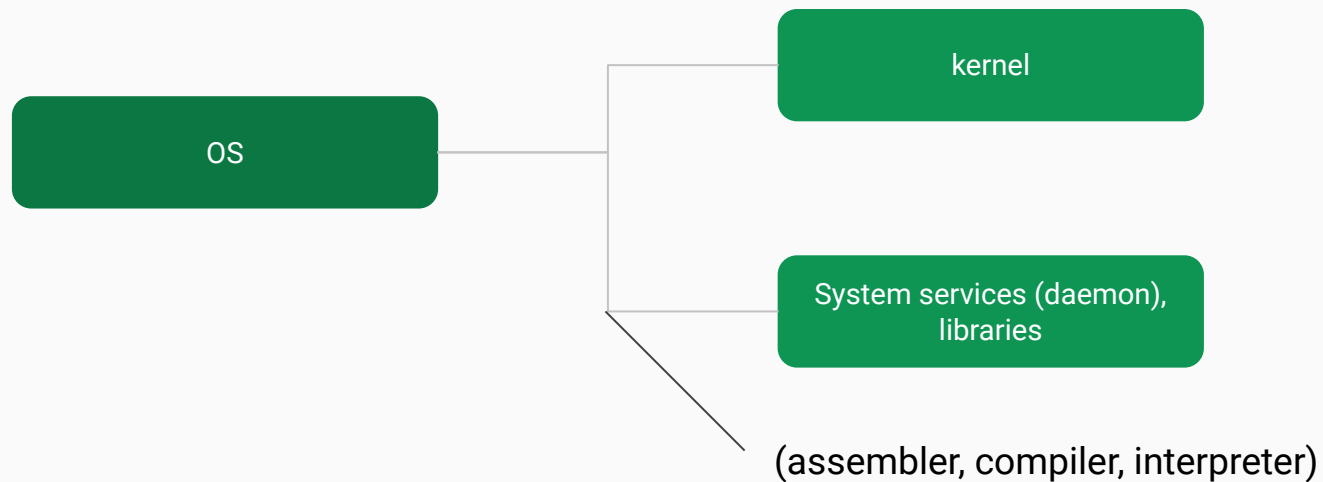
Lesson 1

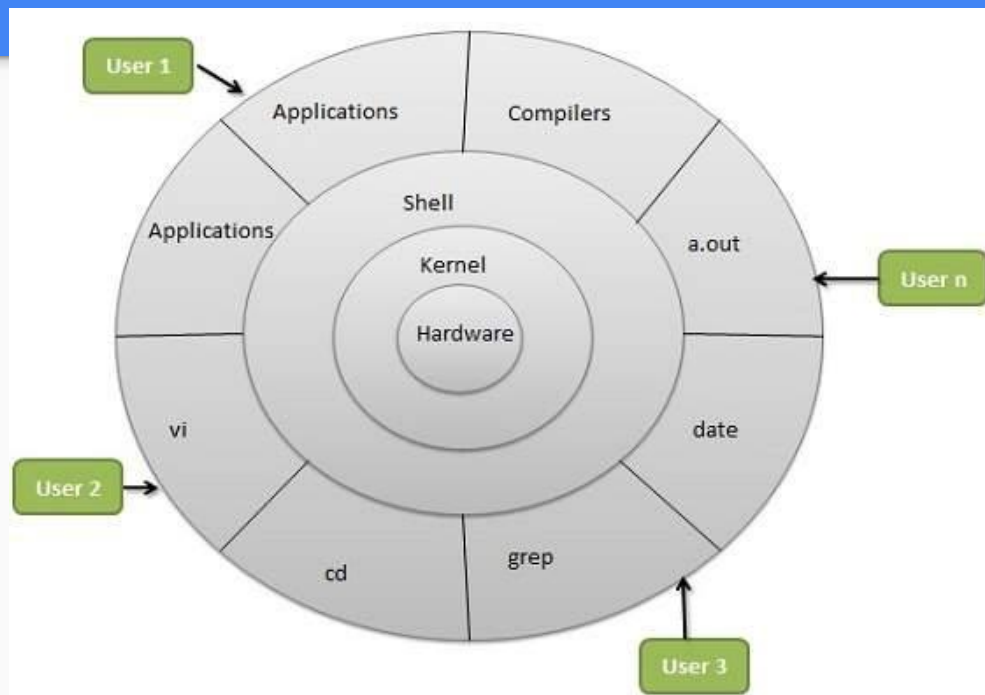
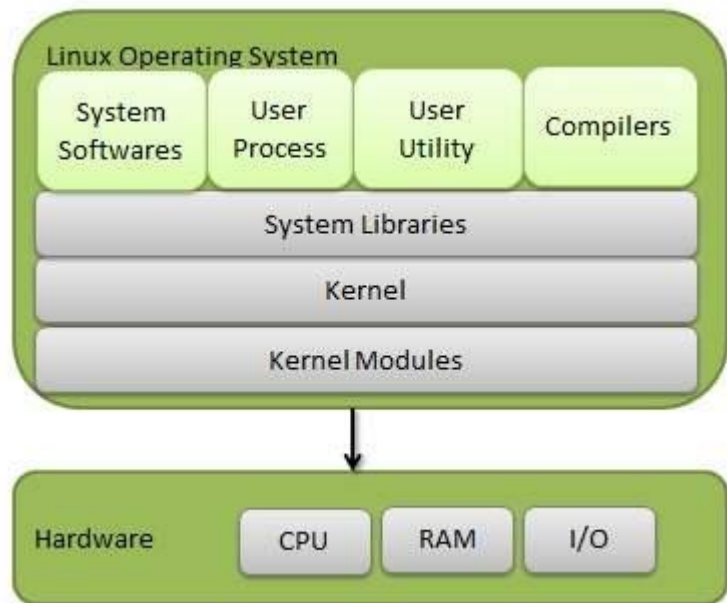
- ソフトウェアの種類
- OSの仕組み
- OSの”基本操作”

“ソフトウェア”

- 見えない、触れない vs hardware: <https://downloadmoreram.com>
- 環境依存 i386 vs amd64 vs arm64, PC vs Mac
- System software vs application software
- Open source vs closed source (proprietary)

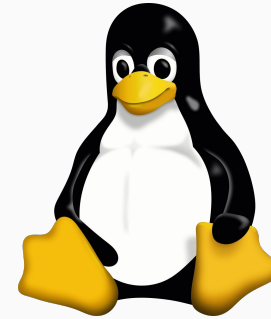
Operating system







Linus Torvalds (2012)



Linux (GNU/Linux)

First open source OS

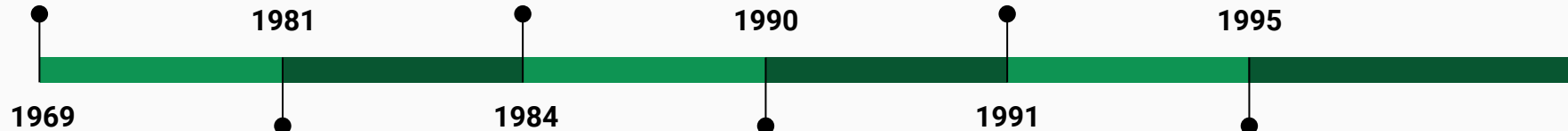


Mac OS (Classic) Mac OS

GUIの元祖, UNIX-based

UNIX

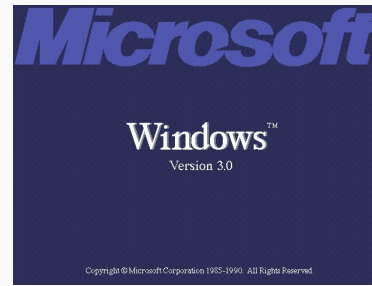
AT&T社が開発した無料 *のOS



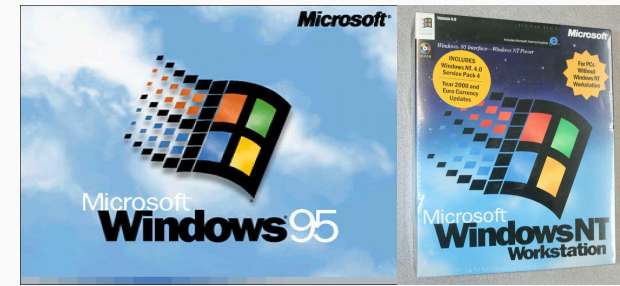
IBM PC-DOS 1.0
MS-DOS 1.25



Windows 3.0



Windows 95
Windows NT

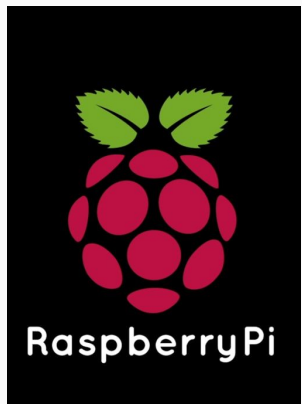




debian



Ubuntu

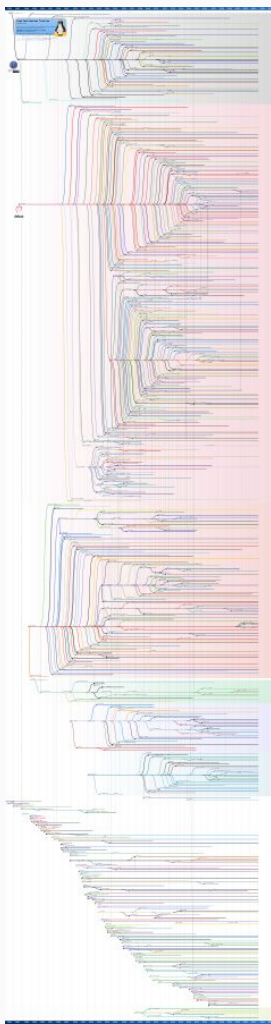


RaspberryPi

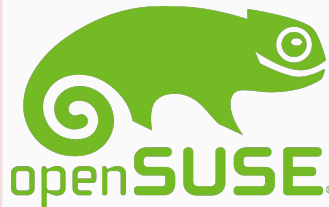


linux Mint
from freedom came elegance

Pop!
_OS



fedora



openSUSE



Powered by

archlinux

A simple, lightweight linux distribution.



manjaro



Red Hat
Enterprise Linux



CentOS



android

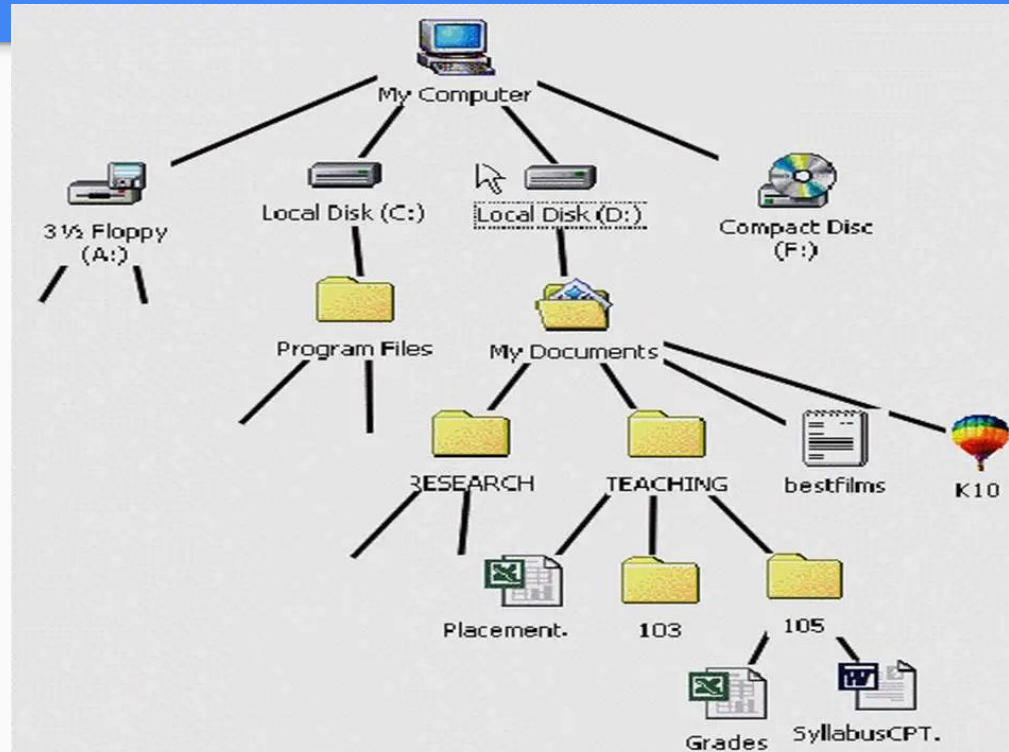
OSの”基本操作”

- 環境変数
- 絶対パス、相対パス
- コマンドプロンプト/Powershell
- ファイルについて
- Text encoding, <newline>

Directory/folder

- D:\Music
- D:\Music\.. = D:\
- D:\Music\. = D:\Music\

```
C:\Users> cd ..  
C:\>  
C:\> cd .\Users  
C:\Users>
```

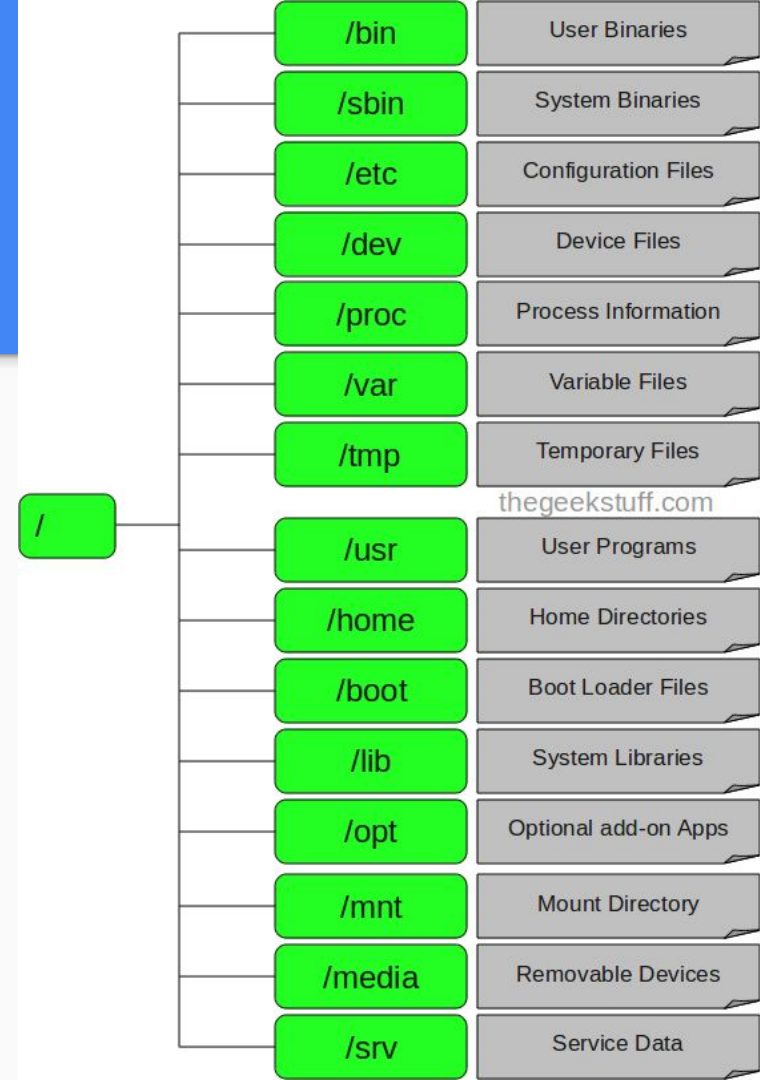


Directory/folder

```
$ ls /
```

[Filesystem Hierarchy Standard](#)

<https://www.pathname.com/fhs/pub/fhs-2.3.pdf>



SPECIFYING FILE PATHS IN



LINUX/MAC

WINDOWS

Windows Command Prompt

- CD
- DIR
- MKDIR/MD
- REN
- COPY
- MOVE
- DEL, RD (DELTREE)
- ECHO
- ATTRIB
- CLS
- EXIT
- TASKKILL
- FORMAT
- SYSTEMINFO
- PAUSE
- REM
- SET
- SHUTDOWN
- IPCONFIG
- PING
- NETSTAT
- TRACERT
- HOSTNAME
- FINGER
- NET
- NSLOOKUP

copy + paste text

Windows Powershell 5.0

- Set-Location (cd)
 - Get-Content (cat)
 - Get-Command
 - Show-Command
 - Get-Help
 - Copy-Item (copy)
 - Move-Item (move)
 - Get-Service
 - Out-File
 - Get-History
- Get-ChildItem (dir)
 - Invoke-WebRequest
 - Write-Output
 - Get-NetAdapter
 - Get-NetIPConfiguration
 - Resolve-DnsName
- ...