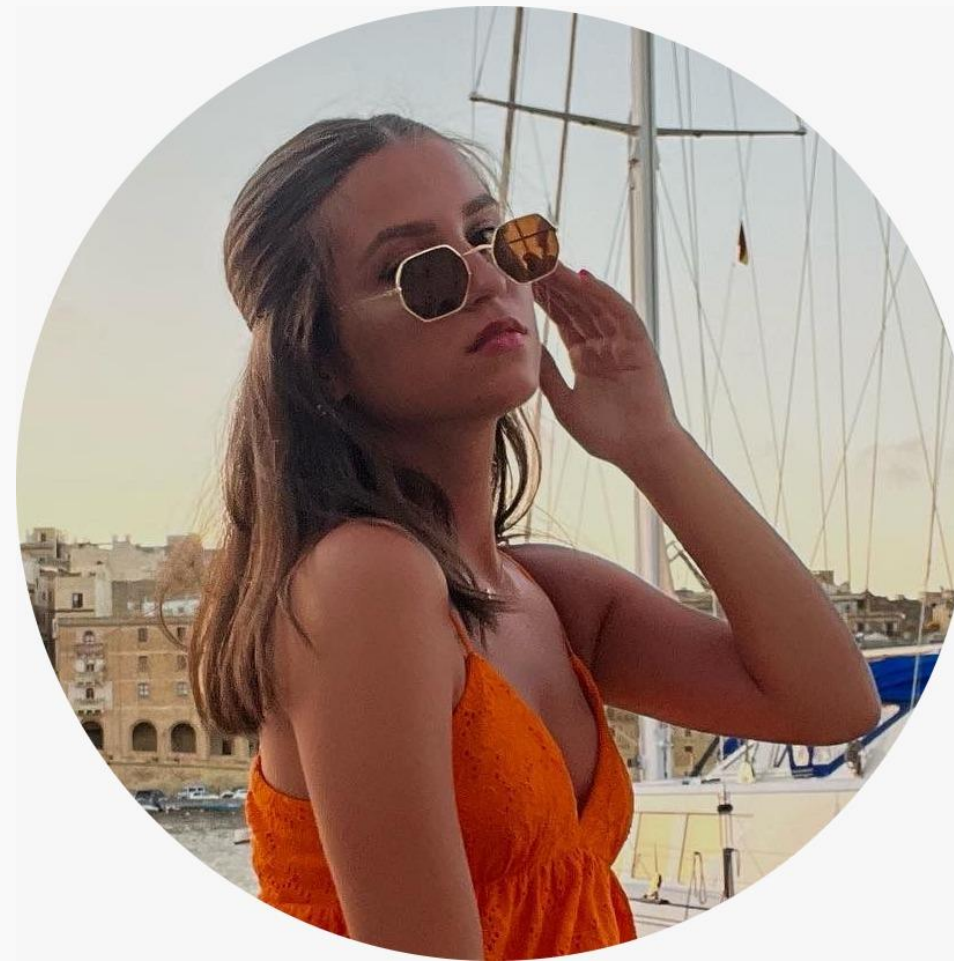


Linux



Sofija Marković
sofijazm8@gmail.com



Bogdan Radosavljević
bogdanradosavljevic97@gmail.com

```
choig = filterByOrg ? study.lead_organization === filterByOrg : true  
!Status = filterByStatus ? study.status === filterByStatus : true  
(matchStatus) {  
  function filterStudies({ studies, filterByOrg  
    studies.filter(study
```


Sadržaj

- Uvod
- Linux kernel, GNU, Windows management
- Distribucije
- Razlike u odnosu na Windows
- Posix
- Organizacija fajl sistema
- Bash



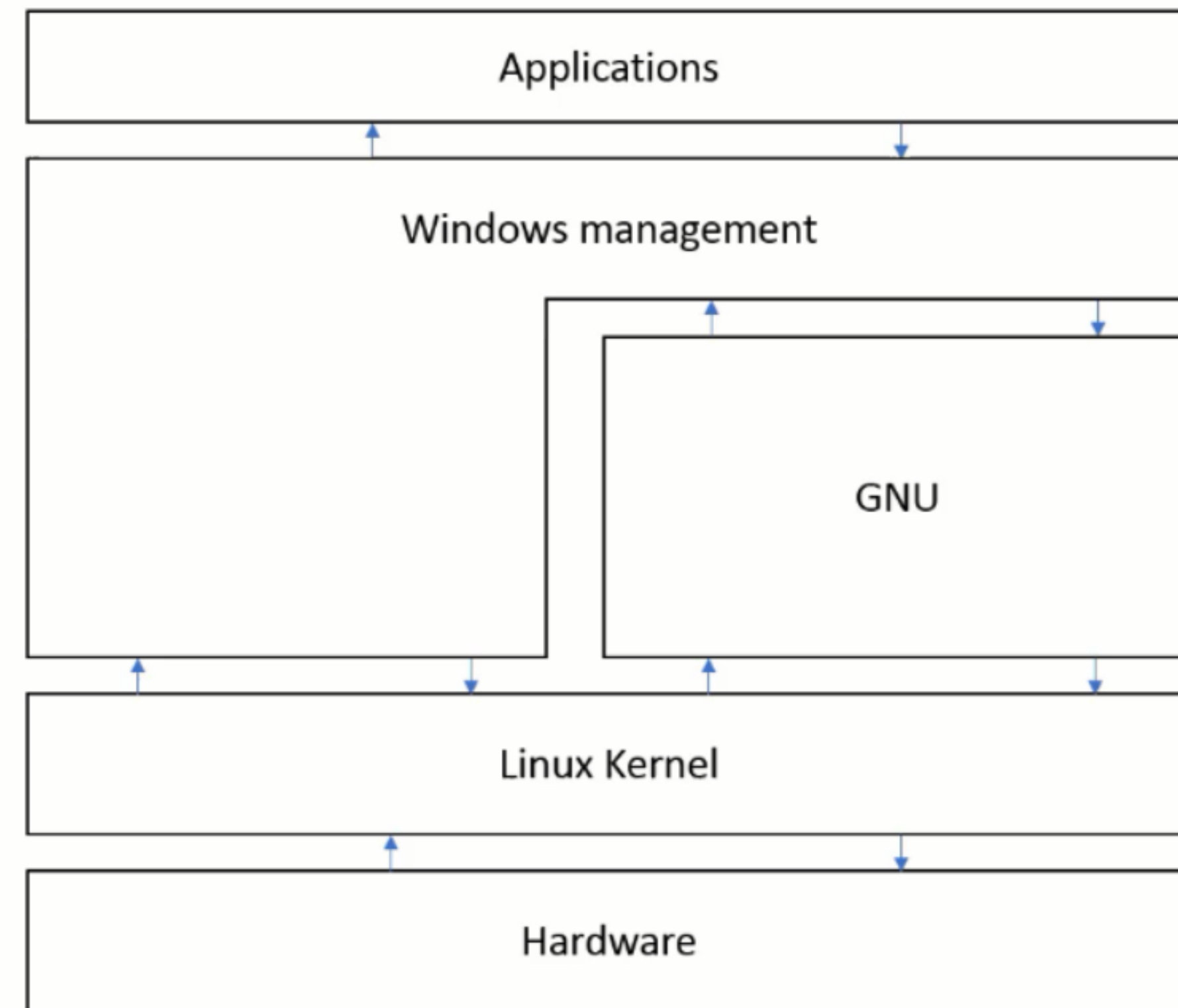
Uvod

- Open-source operativni sistem
- Nastao početkom 90ih godina prošlog veka
- Osnivač Linus Torvalds
- Većinski je napisan u programskom jeziku C
- Široko rasprostranjen

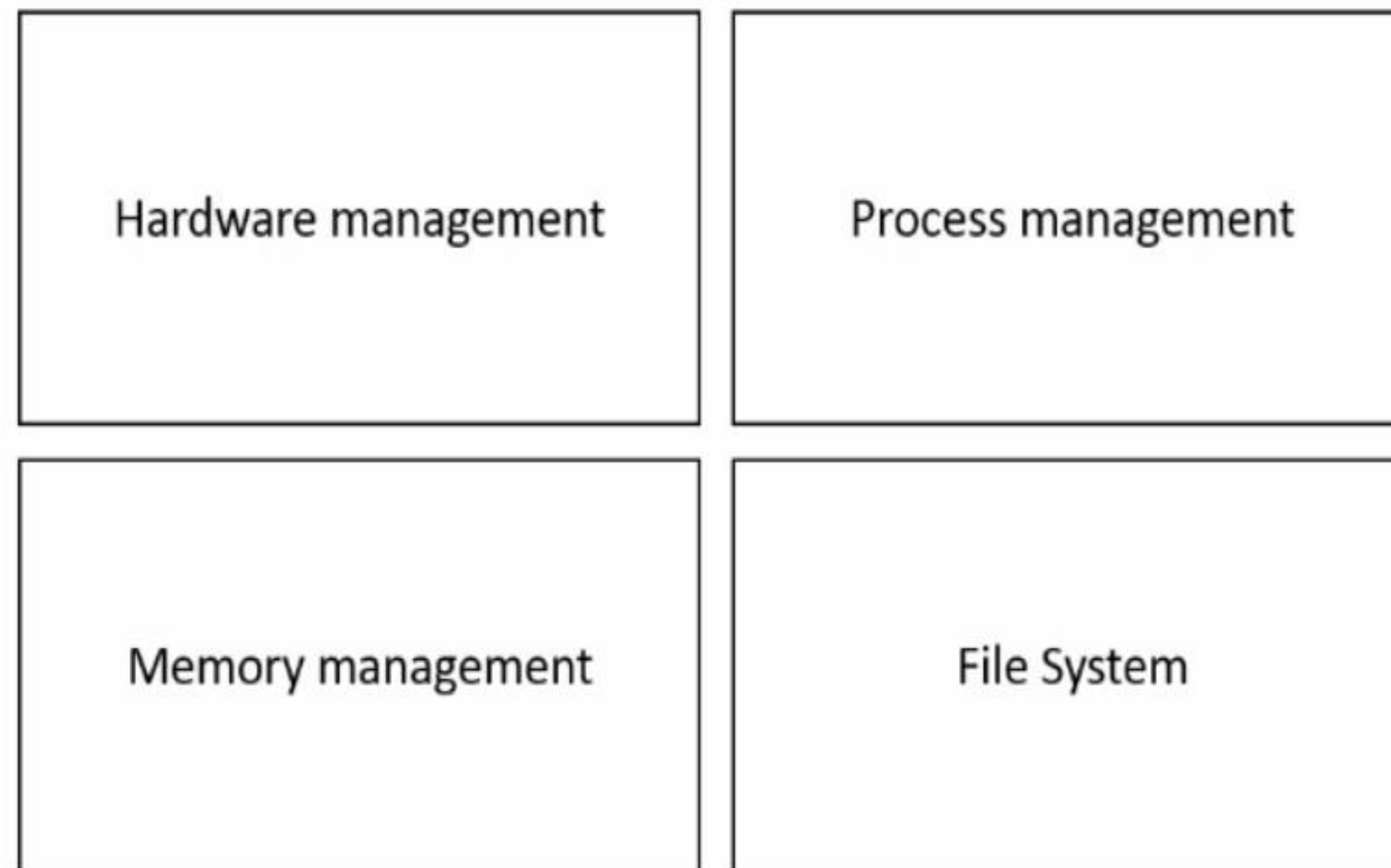


Uvod

- Šta je Linux?

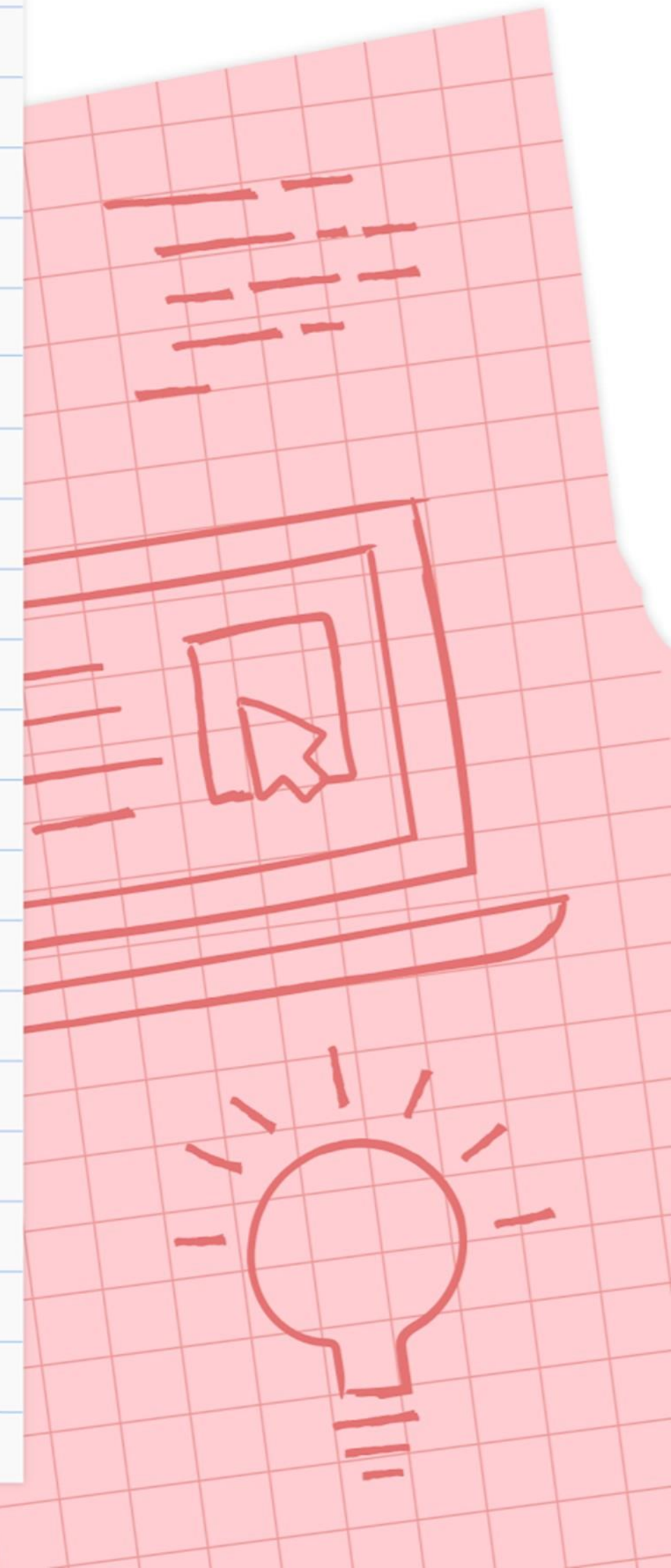
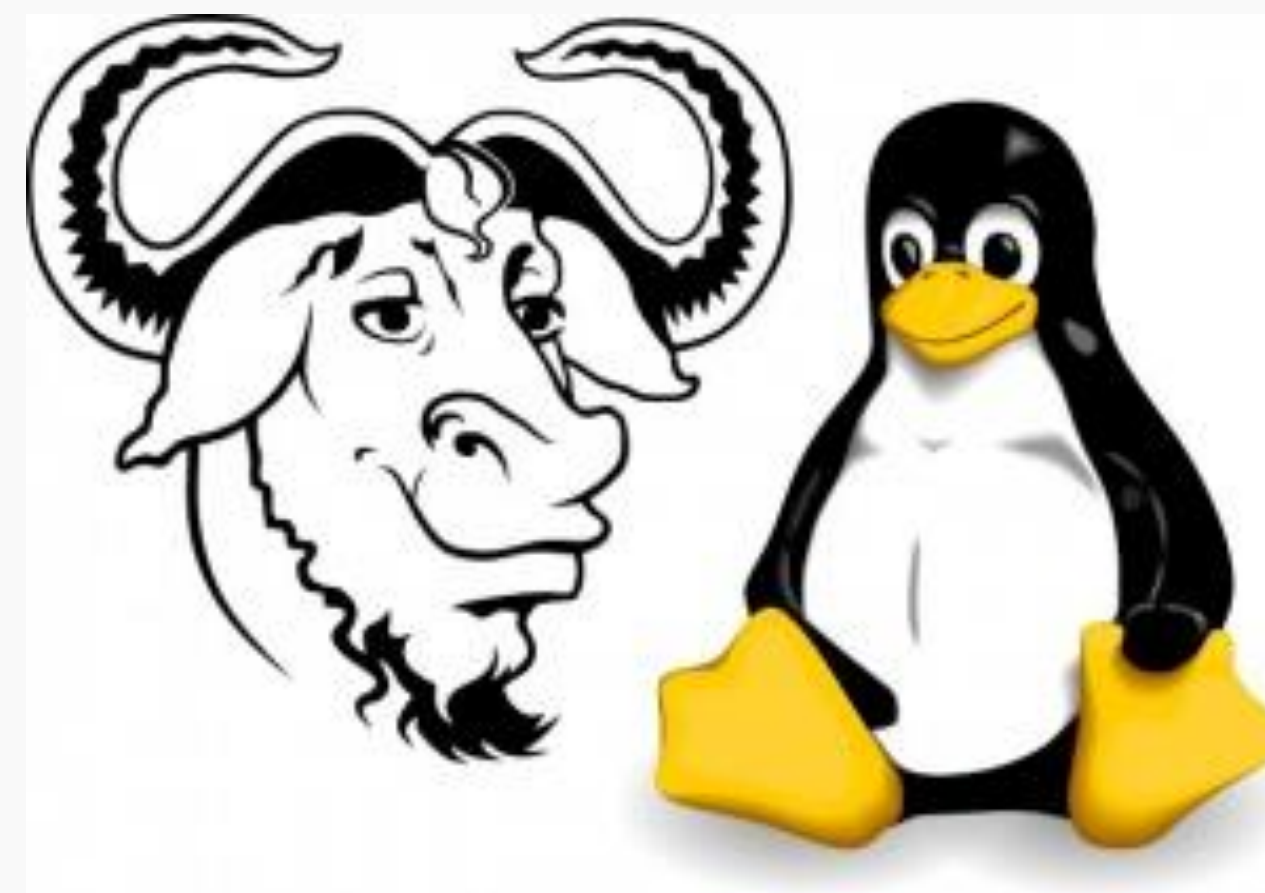


Linux kernel



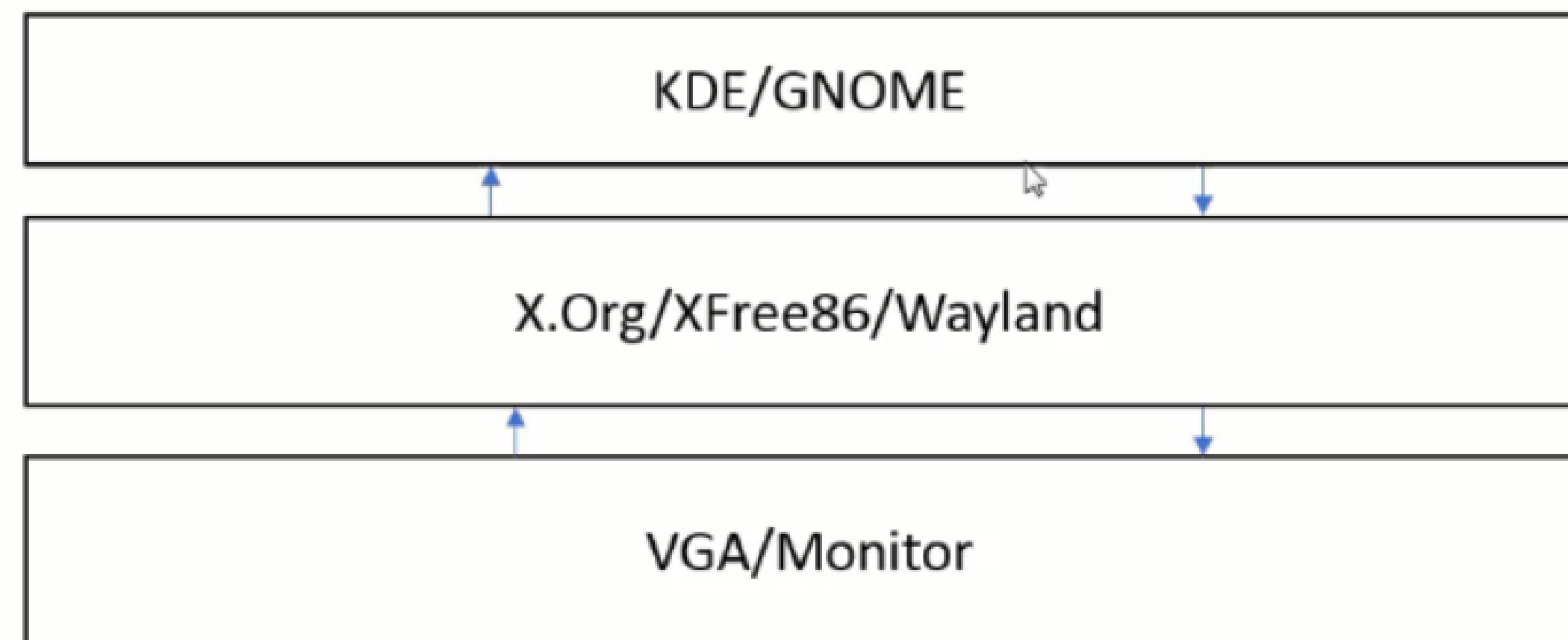
GNU

- GNU's not Unix
- Richard Stallman
- Skup programa koji služi za:
 - rukovanjem fajlova
 - manipulaciju tekstovima
 - rukovanje procesima
 - ...



Windows management

- Softver koji omogućava da se prikazuju prozori i aplikacije na monitoru



Distribucije

- Kombinacija kernela, sistemskog softvera i korisničkih aplikacija
- Najpoznatije:
 - Debian
 - Ubuntu
 - Mint
 - Red Hat
 - Fedora
 - Arch



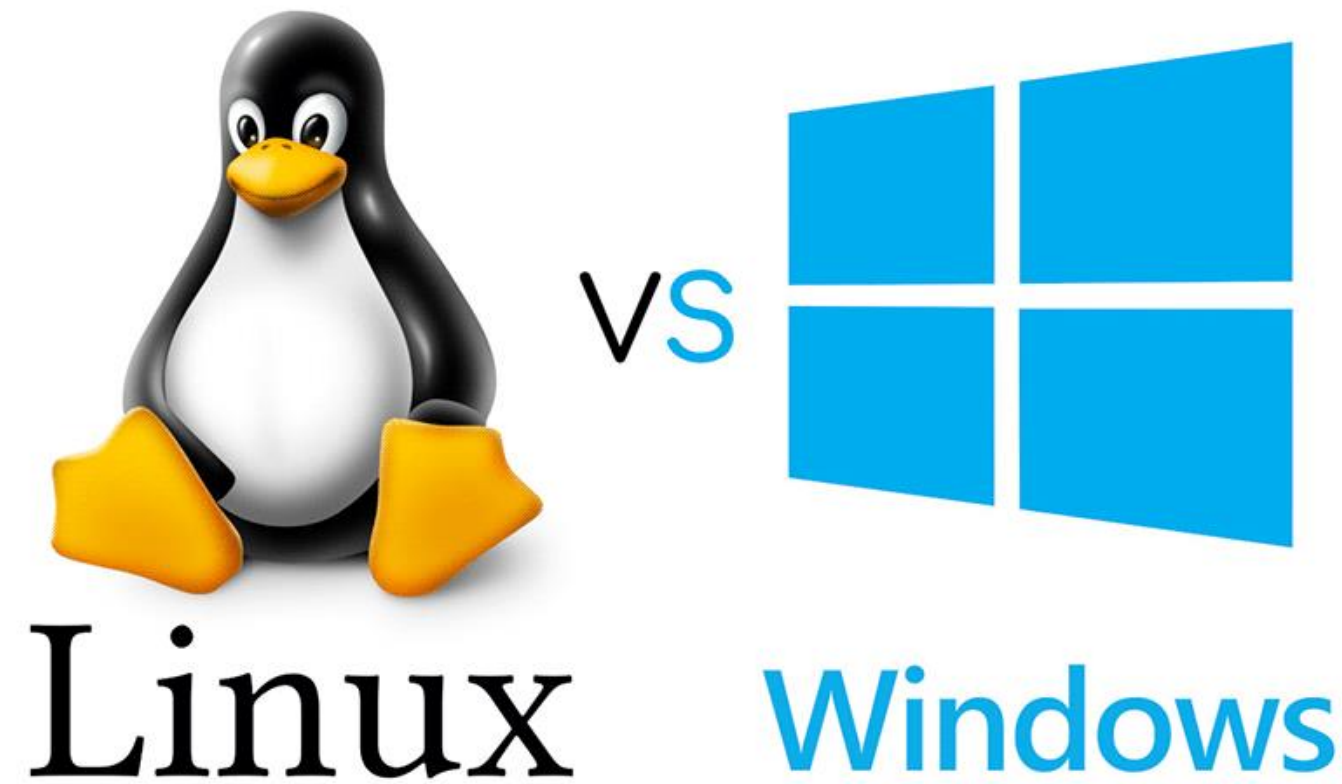
Posix

- Standard Unix sistema, aktivan i u Linux-u
- Biblioteka u programskom jeziku C
- Multithreading, networking...



Razlike u odnosu na Windows

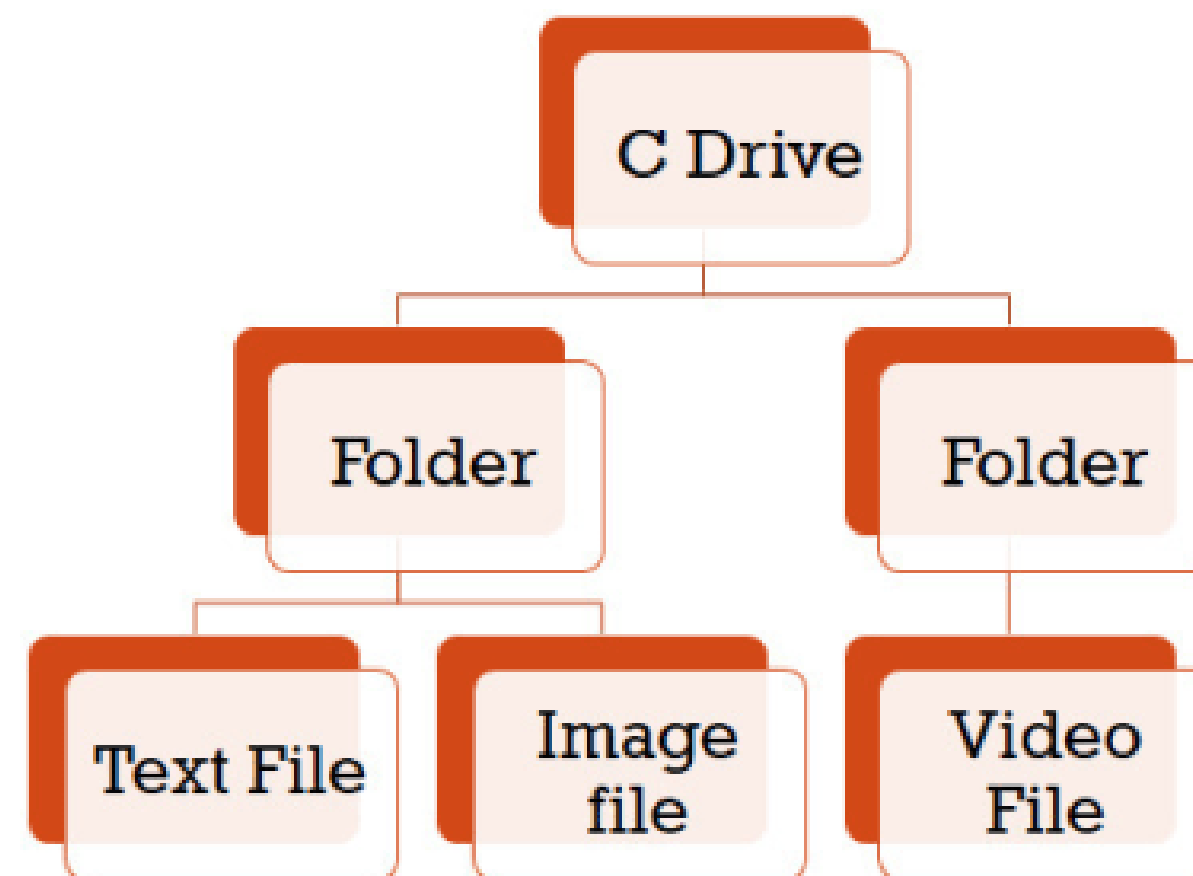
- Cena i licence
- Sigurnost i privatnost
- Stabilnost i pouzdanost
- Ažuriranja i nadogradnje
- Lakoća korišćenja
- Podrška hardvera
- Podrška za igre



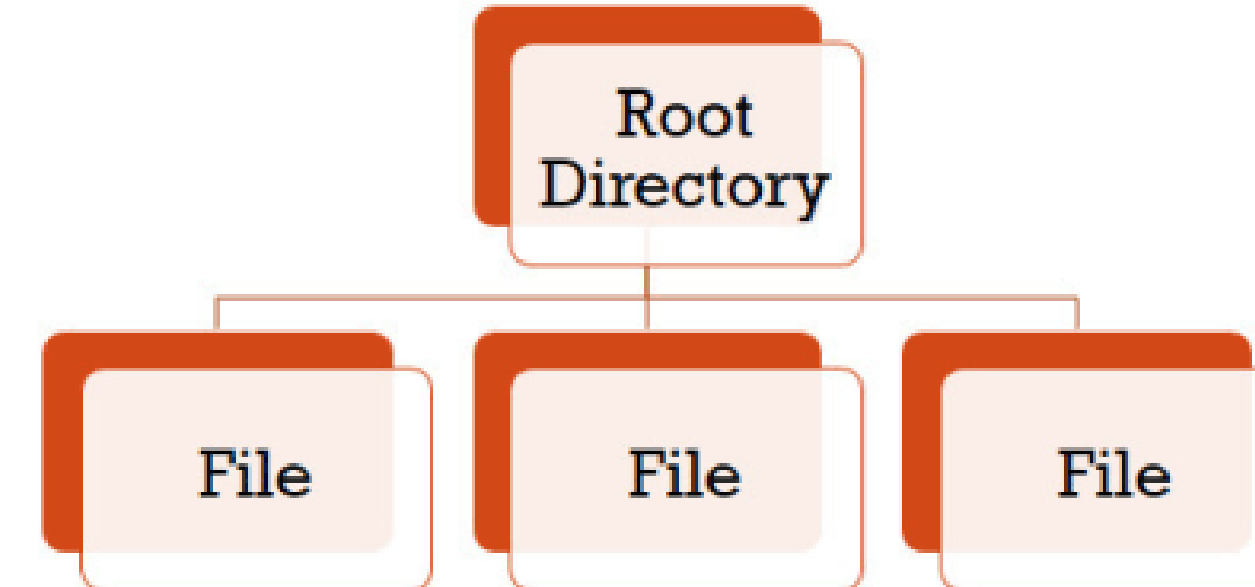
Organizacija fajl sistema

FILE SYSTEM

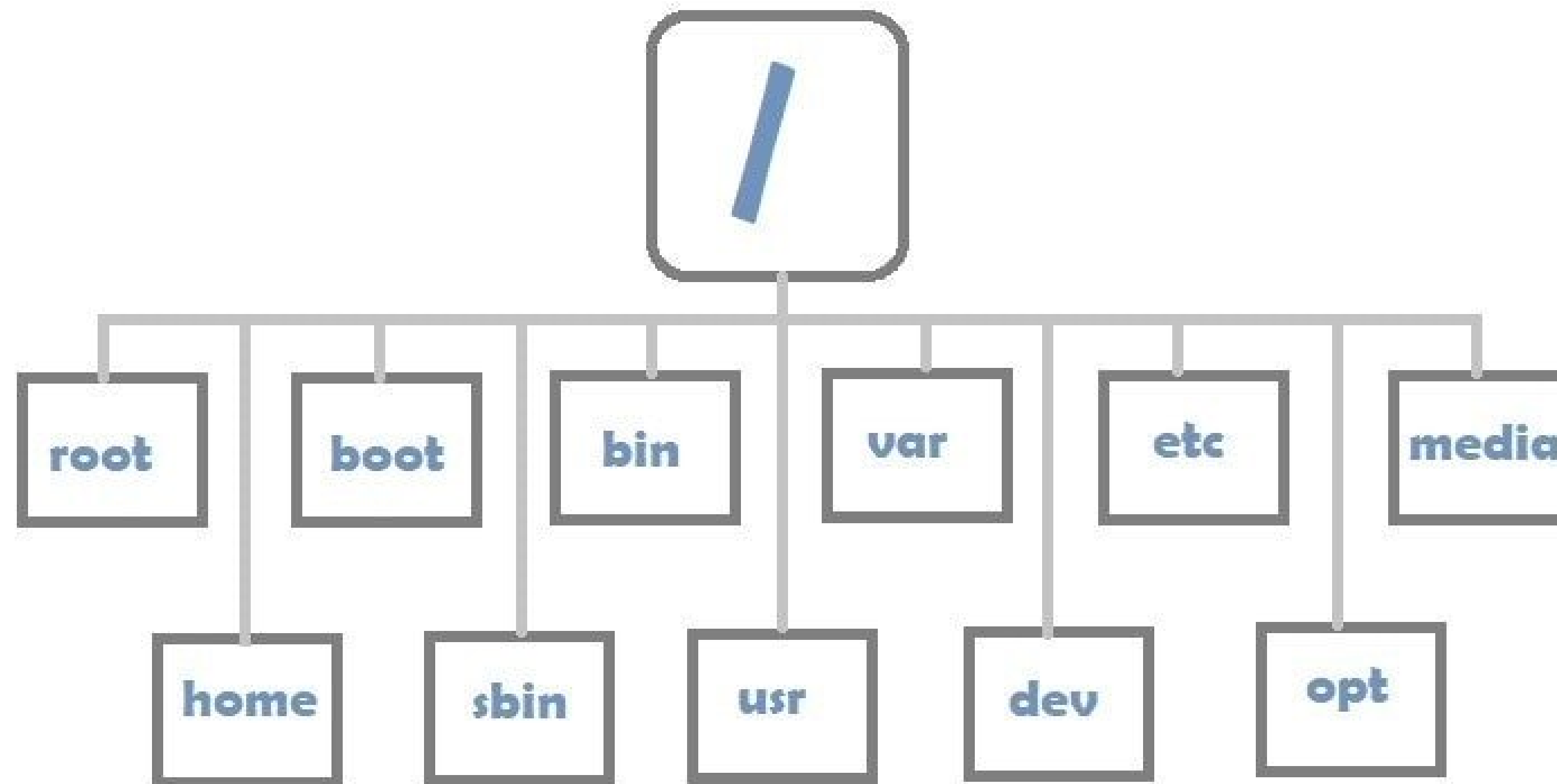
Windows



Linux



Organizacija fajl sistema



Bash

- Interpreter i programski jezik u obliku komandne linije
- Podržava petlje, grananja, regularne izraze, manipulaciju standardnog ulaza, izlaza i izlaza za greške, preusmeravanje u datoteke, pisanje skripti...

```

~: bash — Konsole
New Tab ▾ Split View Copy Paste F
[duke@archlinux ~]$ date
Tue Oct  4 21:39:40 CEST 2022
[duke@archlinux ~]$ cal
October 2022
Su Mo Tu We Th Fr Sa
                1
 2  3  4  5  6  7  8
 9 10 11 12 13 14 15
16 17 18 19 20 21 22
23 24 25 26 27 28 29
30 31
[duke@archlinux ~]$ pwd
/home/duke
[duke@archlinux ~]$ ls
Android Desktop Documents Downloads Music Pictures Projects Public Screenshots Templates Videos go openjdk-10+44_linux-x64_bin_ri.tar.gz
[duke@archlinux ~]$ neofetch
      .
     .o+
    .ooo/
   +oooo:
  +oooooo:
 +oooooo+:
/:-:++oooo+:
/+++++/+++++:
/+++++/+++++:
/++ooooooooooooo/
./ooooooooo+oooooo+
.ooooooo-`-/ooooo+
-ooooooo.   :ooooooo.
:ooooooo/   oooooo++
/ooooooo/   +oooooo/-
/oooooo+/-  -:/ooooo+
+soo+:-     -:/oso:
++:.        -/+
      .-/+

duke@archlinux
-----
OS: Arch Linux x86_64
Host: 81YH IdeaPad 5 14IIL05
Kernel: 5.19.12-arch1-1
Uptime: 14 hours, 15 mins
Packages: 1103 (pacman)
Shell: bash 5.1.16
Resolution: 3440x1440
DE: GNOME 42.5
WM: Mutter
WM Theme: Sweet-Dark-v40
Theme: Sweet-Dark [GTK2/3]
Icons: Tela-black-dark [GTK2/3]
Terminal: konsole
CPU: Intel i7-1065G7 (8) @ 3.900GHz
GPU: Intel Iris Plus Graphics G7
Memory: 2857MiB / 15678MiB

```



