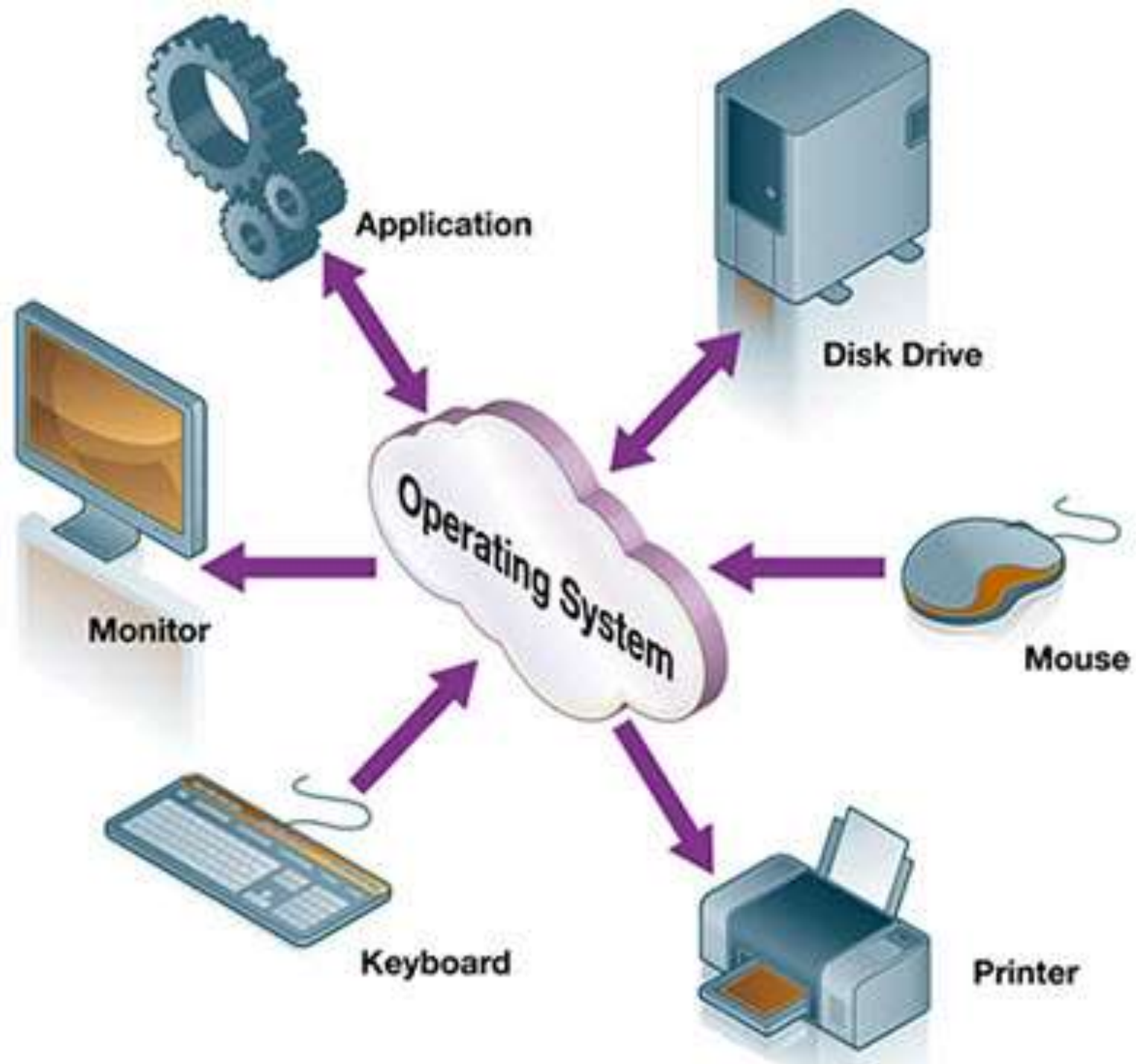




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# OPERATING SYSTEM

- A. Types of Operating System
- B. Popular Operating Systems



## OPERATING SYSTEM

- software that supports a computer's basic functions, recognizing the input data from a keyboard, sending output to the display screen, keeping files and directories of the disk and controlling peripheral devices like printers
- interface between user and machine

## TYPES OF OPERATING SYSTEM

- Normal Operating System
- Real Time Operating System

## NORMAL OPERATING SYSTEM

- classified into two types:
  - Character User Interface OS
  - Graphical User Interface OS

## NORMAL OPERATING SYSTEM

- **Character User Interface OS (CUI)**
  - text-based OS, used for interacting with the software or files by typing commands to perform specific tasks
  - Command Line OS uses only keyboard to enter commands
  - Example: DOS and UNIX

# NORMAL OPERATING SYSTEM

**DOS OPERATING SYSTEM** Page

**DOS commands** **Comments**

`c:\>`

Emulator is already initialized.  
Now you can go on by typing any valid DOS command.

**Hard disk unit C:**

- COMMAND.COM
- CONFIG.SYS
- AUTOEXEC.BAT
- WINA20.386

**DIR1**

- FILE1
- DOCUMENT.TXT
- FILE2

**DIR2**

- UTILITY.1
- MYFILE
- NIKOS.DOC
- GEORGE.EXE

**DIR3**

- AEK
- PAO
- OSFP

**DIR2**

- NIKOS
- GIORGOS
- PANOS
- MICHEL

**Floppy disk unit A:**

- ORION
- SETUP.EXE
- DOS.TBK
- AB.TBK

**DIR1**

- BACKUP.001
- BACKUP.002

**DIR2**

- NONAME

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Character User Interface OS (CUI)



## NORMAL OPERATING SYSTEM

- **Graphical User Interface OS (GUI)**
  - mouse-based OS (Windows OS, LINUX), wherein a user performs the tasks or operations without typing the commands from the keyboard
  - files or icons can be opened or closed by clicking them with a mouse button

# NORMAL OPERATING SYSTEM



Graphical User Interface OS (GUI)



## Popular Operating Systems

# MICROSOFT WINDOWS OS

- **Microsoft** created the Windows OS in the mid-1980s
- **Versions:** Windows 10, Windows 8, Windows 7, Windows XP
- **Editions:** Home, Premium, Professional, Ultimate

# MICROSOFT WINDOWS OS



Windows Graphical User Interface OS (GUI)

# APPLE MAC OS X

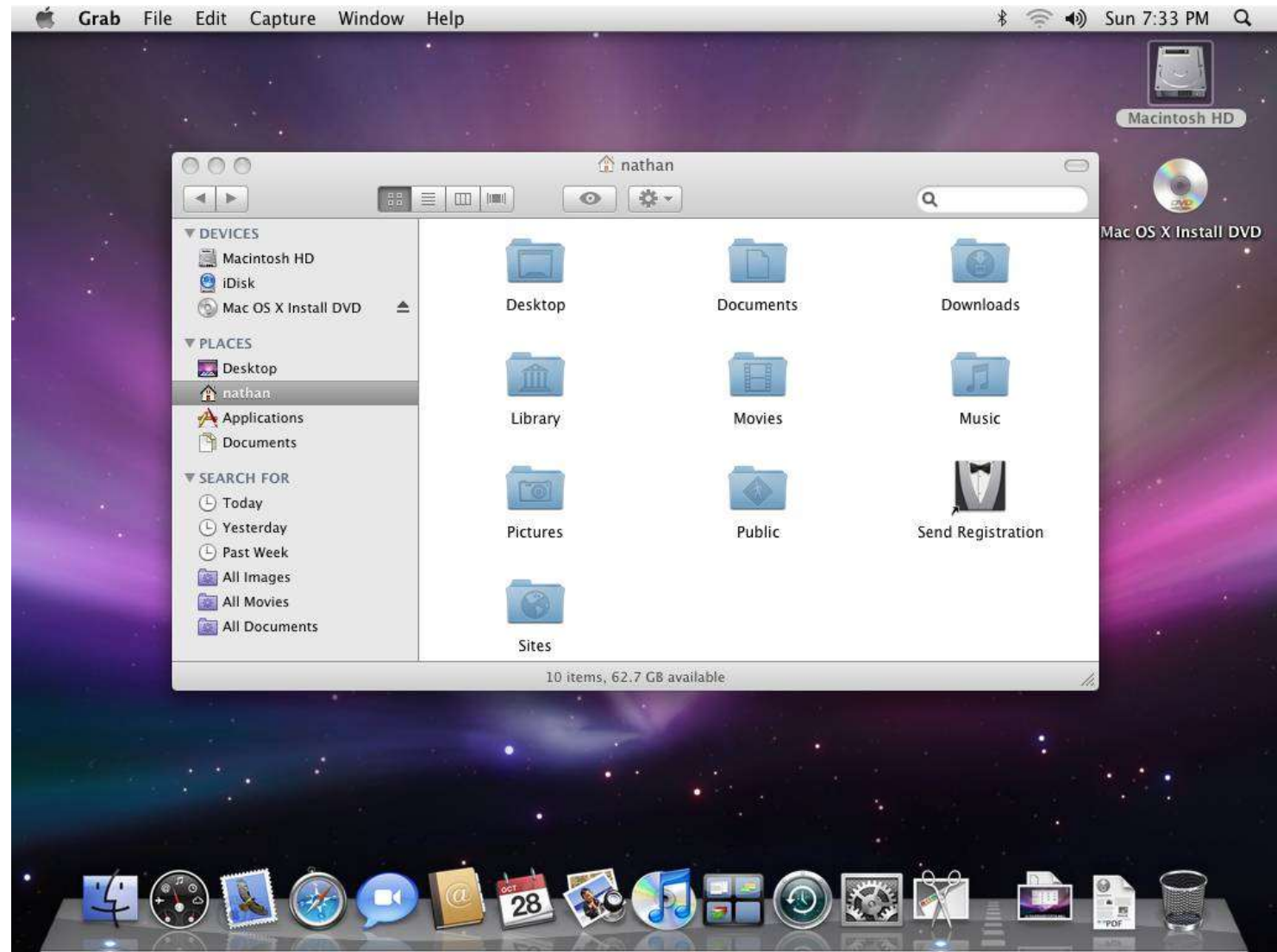
- MAC OS is a line of OS created by Apple Inc.
- **Versions:** MAC OS X, Lion, Snow Leopard, Leopard

## Why does APPLE name their OS after wild cats?

- People don't relate well to numbers, names are easier to remember and differentiate.
- As for why big cats? It's a marketing thing.
- People associate big cats with power, grace and beauty.



# MAC OS X



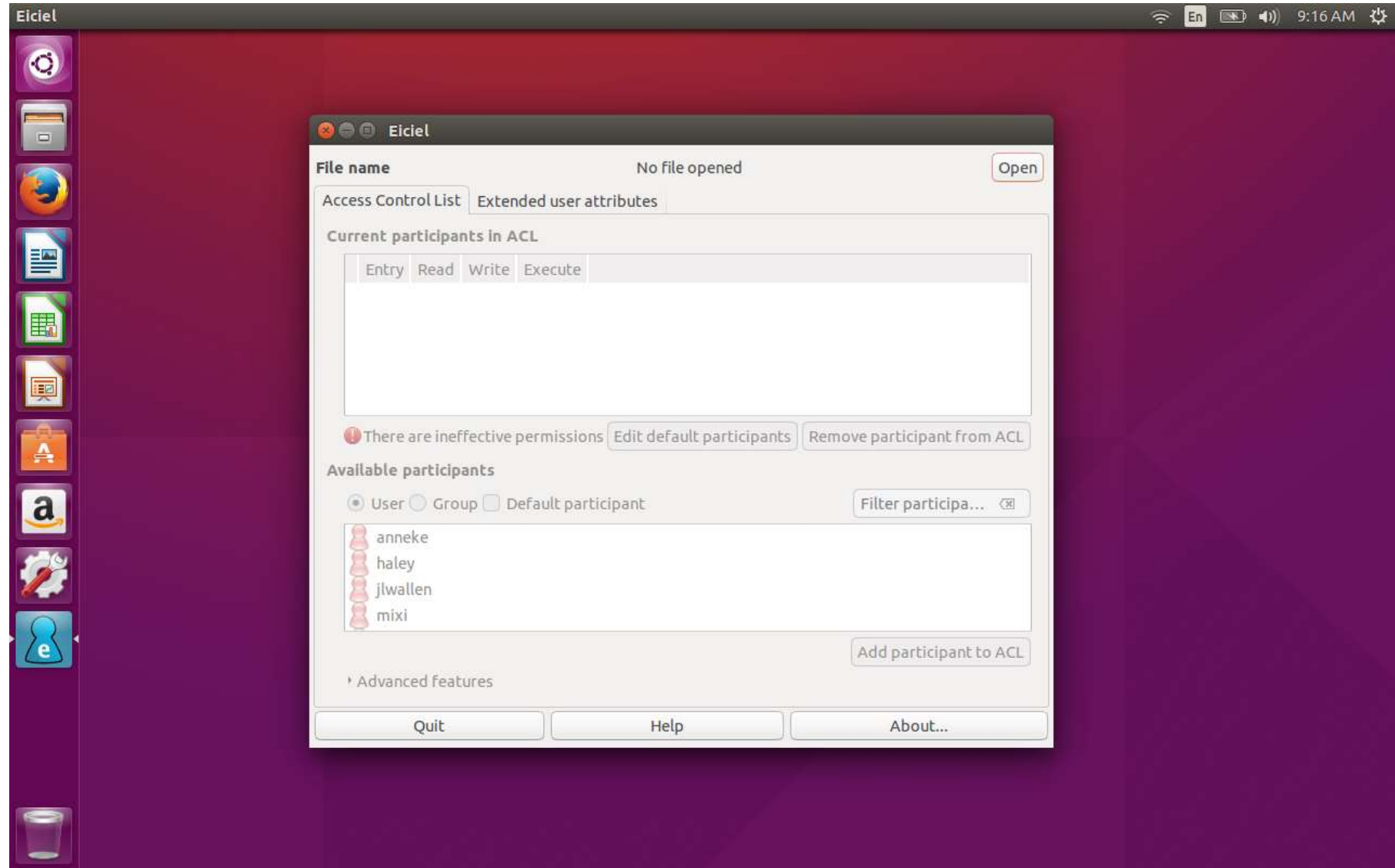
Mac OS X Graphical User Interface OS (GUI)



# LINUX

- family of open source OS, which means that they can be modified and distributed by anyone around the world
- Advantage: free
- **Versions:** Ubuntu, Mint, Fedora

# LINUX



LINUX Graphical User Interface OS (GUI)

## Additional Readings/References



**What is an Operating System (OS) and How does it work?**

<https://www.cleverism.com/operating-system-os-guide/>

**Operating System | Types of Operating Systems**

<https://www.geeksforgeeks.org/types-of-operating-systems/>

**Two Different Types of Computer Operating Systems**

<https://www.elprocus.com/different-types-of-computer-operating-systems/>

**Operating System Overview**

[https://www.tutorialspoint.com/operating\\_system/os\\_overview.htm](https://www.tutorialspoint.com/operating_system/os_overview.htm)

End of presentation



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