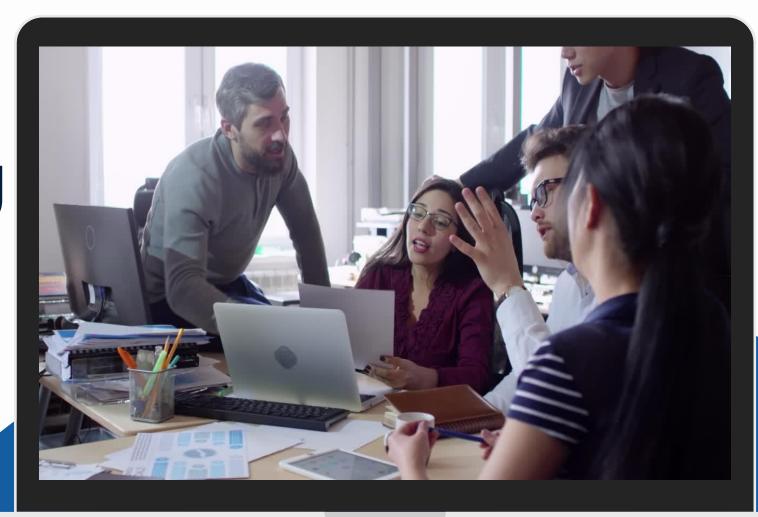


Understanding Windows, macOS, and Linux Operating Systems

by Md. Fahmidur Rahman Sakib,

Lecturer, Dept of CSE, Metropolitan

University



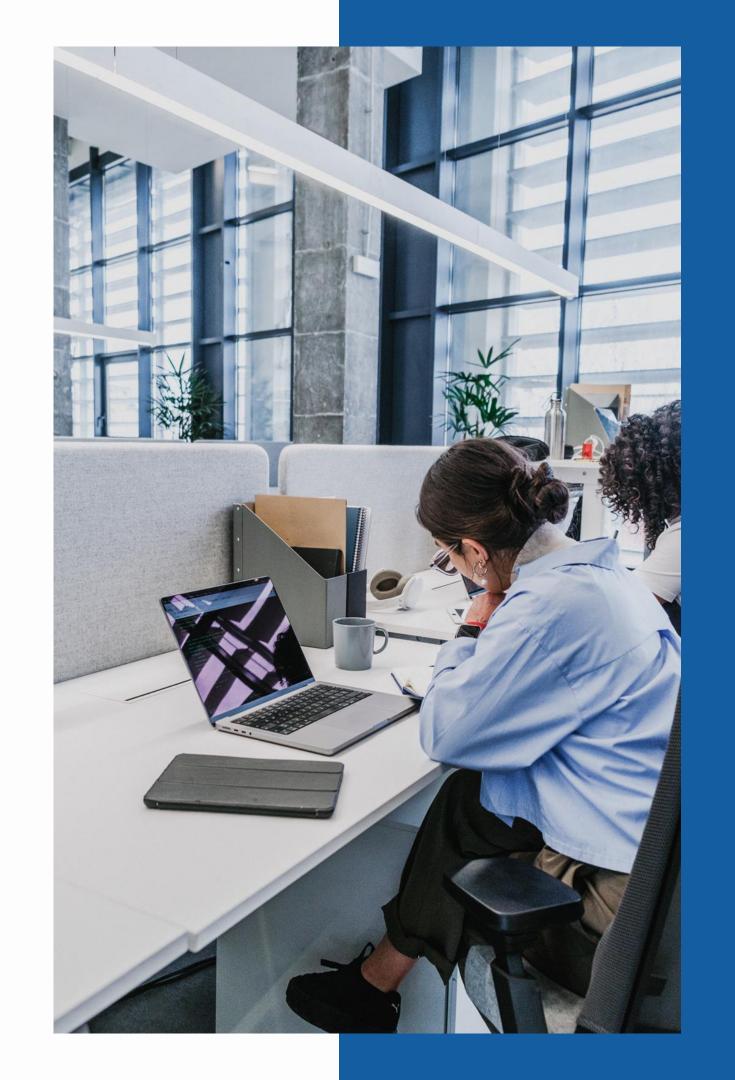
Welcome to our beginner's guide on popular operating systems! We'll explore Windows, macOS, and Linux. This presentation will give you a solid understanding of their differences. bt

hat is an Operating System?

Resource Manager

Service Provider

Mediator



Windows Operating System

Widespread Usage

Windows is the most widely used operating system globally, developed by Microsoft **User-Friendly**

User-Friendly Interface,
It offers an intuitive interface suitable for users of all skill levels

Extensive Compatibility Windows supports a wide range of hardware and software applications

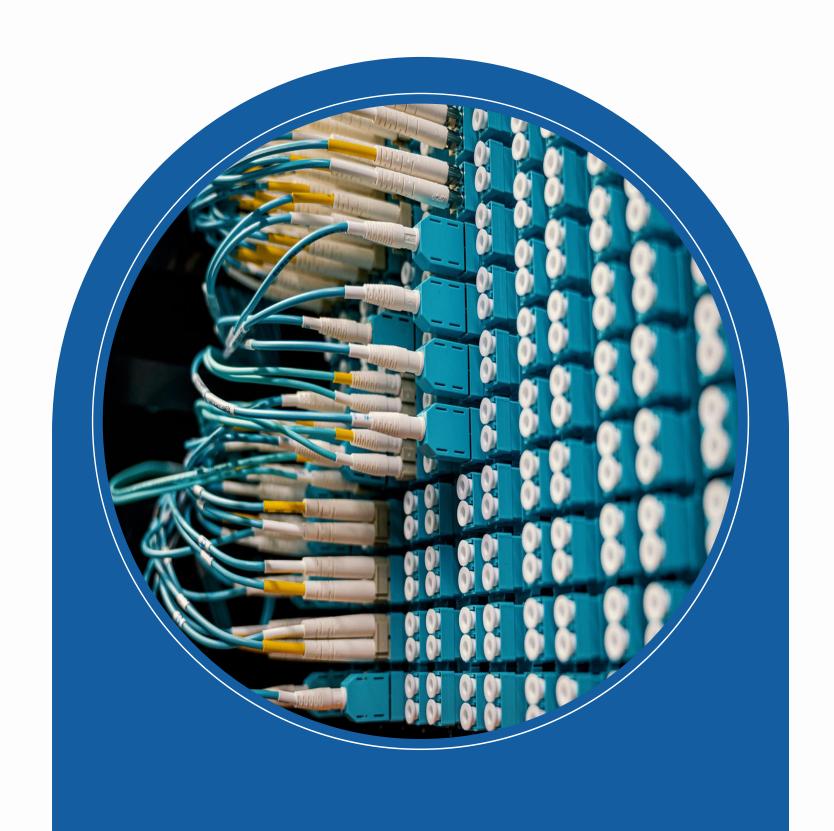


Windows Features

- File Management
- Virtual Assistant
- App Store

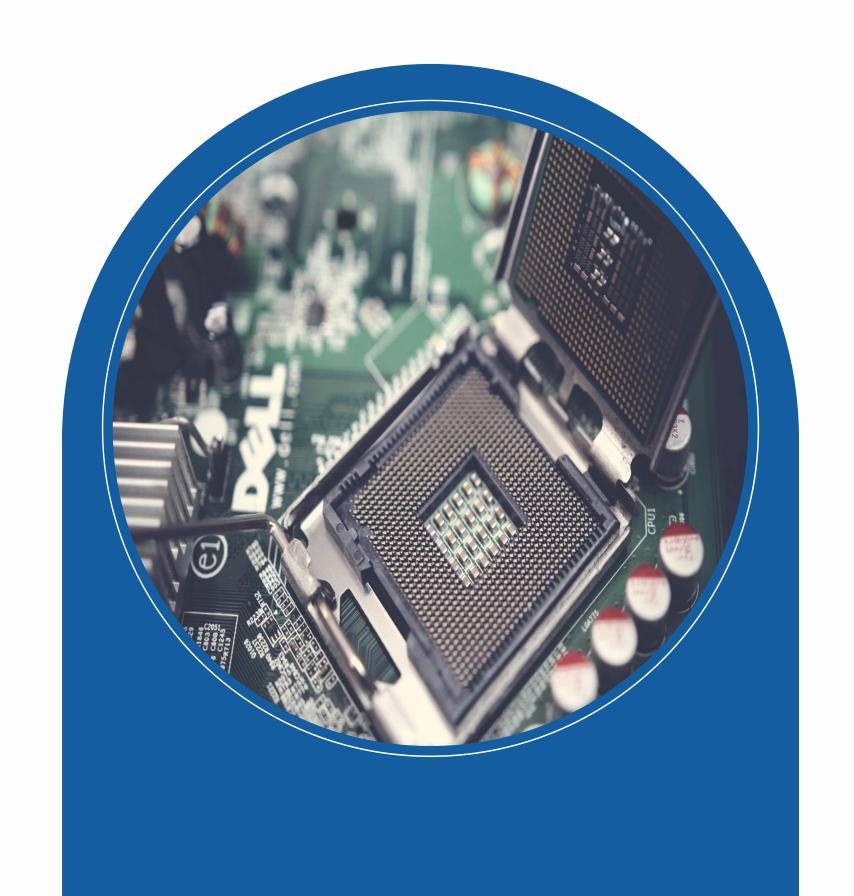
macOS Operating System

- Apple Exclusive
- Sleek Design
- High Performance



macOS Features

- Finder
- Spotlight
- iCloud Integration



Linux Operating System



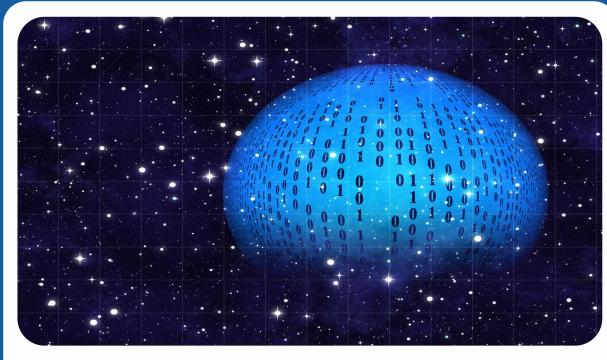
Open-Source

Linux is a free, open-source operating system developed by Linus Torvalds.



Customizable

It offers high flexibility and customization options for users.



Versatile

Linux runs on a wide range of hardware, from smartphones to supercomputers

Linux Features



Distributions

Various Linux distributions cater to different user needs and preferences.



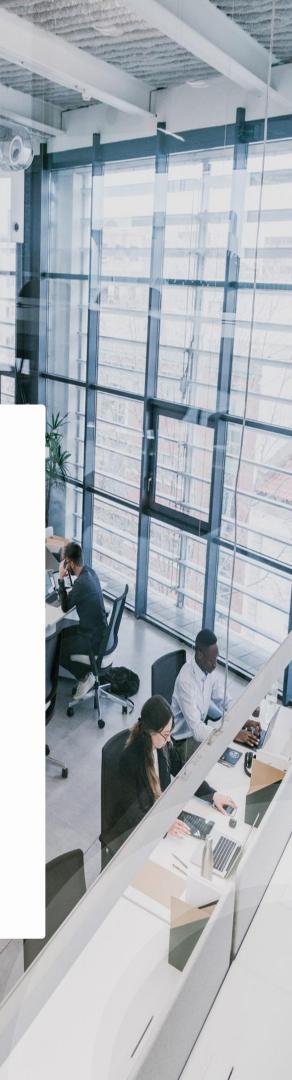
Package Managers

Easy software installation and management through package managers.



Terminal

Powerful command-line interface for advanced users and developers.

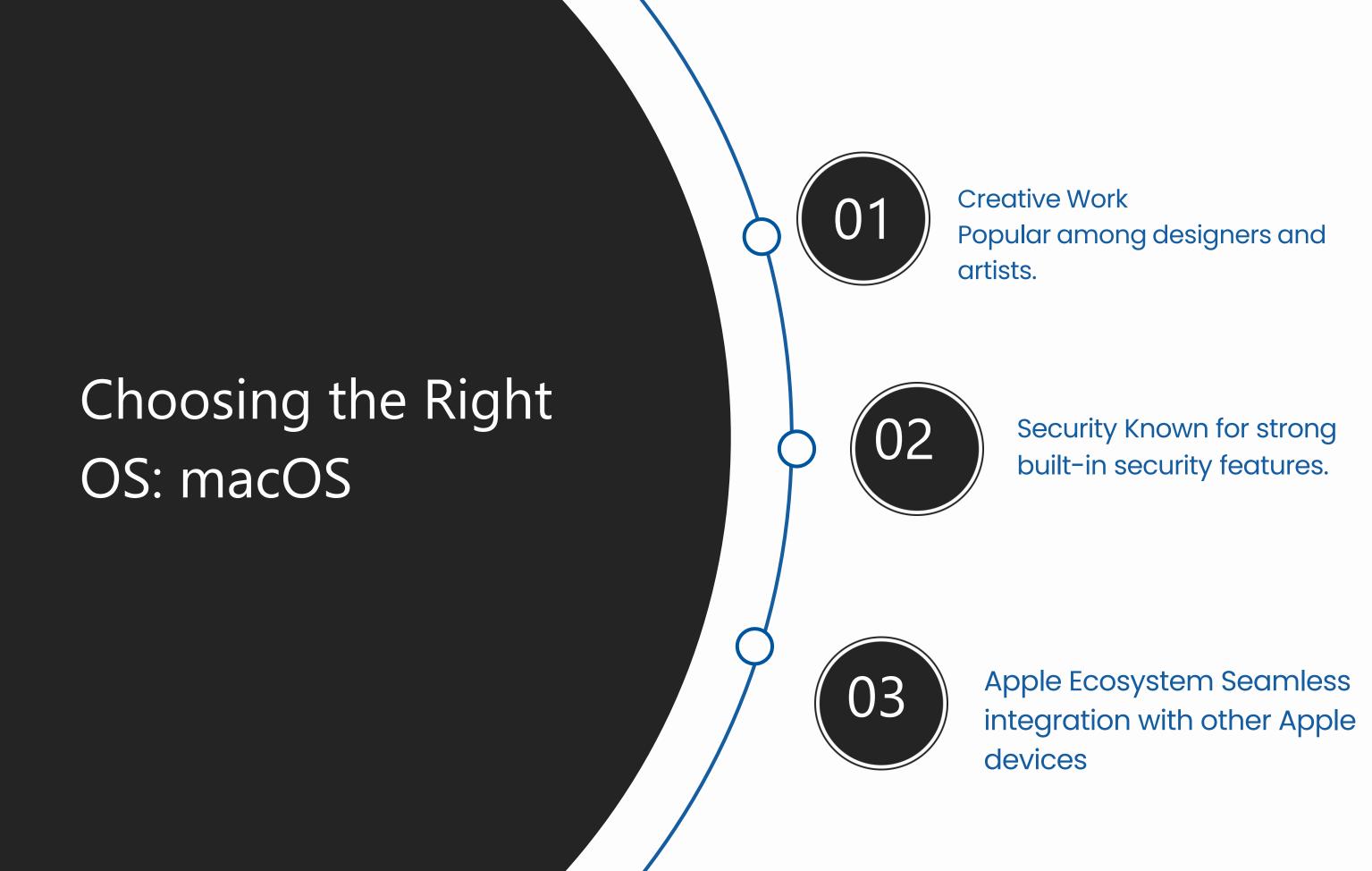


Comparing Operating Systems

Feature	Windows	macOS	Linux
Ease of Use	Hìgh	High	Varies
Compatibi	Wide	Limited	Moderate
Security	Moderate	High	High
Cost	Paid	Included with Mac	Free







Choosing the Right OS: Linux



Development

Preferred by many programmers and developers.



Servers

Widely used for web servers and cloud computing



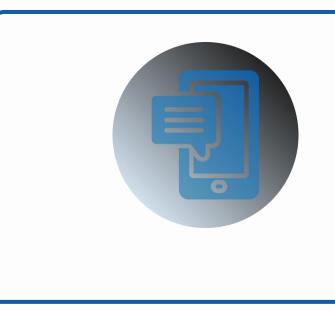
Customization

Ideal for users who want full control over their OS

Factors to Consider When Choosing an OS







Hardware Requirements

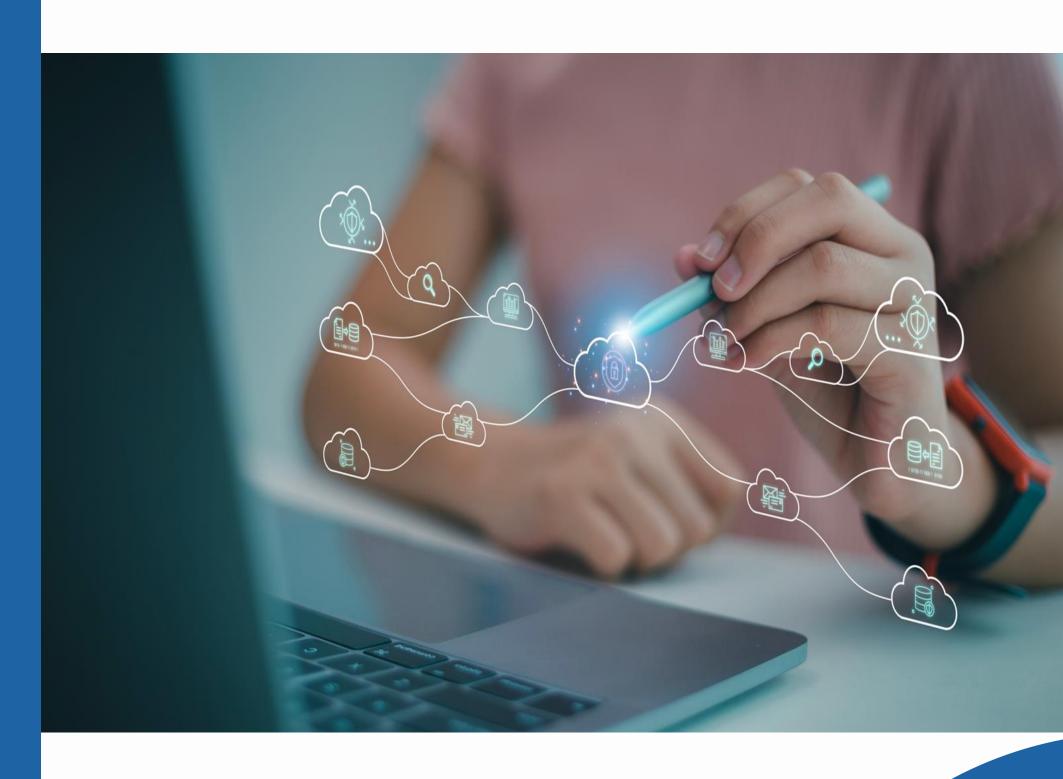
PARTITIONING AND DISK MANAGEMENT IN OPERATING SYSTEMS Welcome to our beginner's guide on partitioning and disk management in operating systems. We'll explore these concepts in

simple terms, making them easy to understand for everyone.

WHAT IS A HARD DRIVE? A hard drive is the main storage device in your computer. It's like a digital filing cabinet for all your data. It stores all your files, programs, and even the operating system itself. Everything you save lives here.Without a hard drive, your computer wouldn't be able to retain information when powered off. It's crucial for functionality

Understanding Storage Capacity

- Gigabytes (GB)
- Terabytes (TB)
- Comparing Sizes



What is Partitioning?

1. NTFS Used by Windows,
NTFS offers advanced
features like file compression
and encryption.

2 .EXT4 Common in Linux systems, EXT4 provides robust performance and reliability.



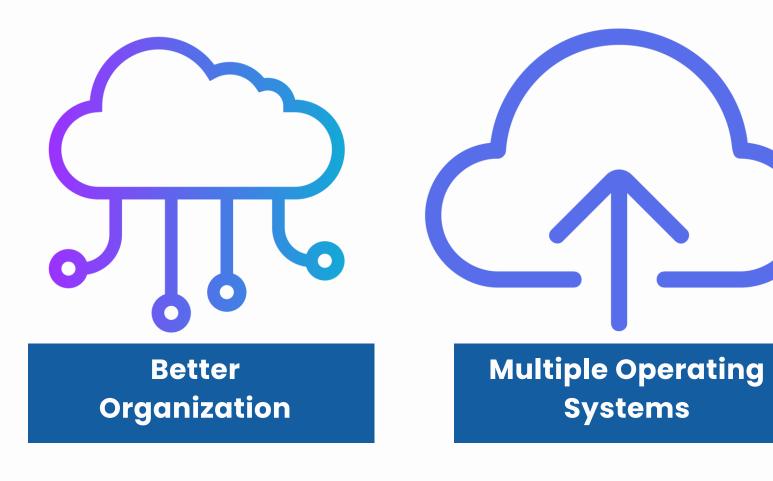
What is Partitioning?

3 FAT32 An older system,
FAT32 is compatible with
many devices but has size
limitations.

4.exFAT Designed for flash drives, exFAT balances compatibility and large file support.



Benefits of Partitioning







Common Partition Types

- Primary
- Extended
- Logical

DISK MANAGEMENT TOOLS: WINDOWS

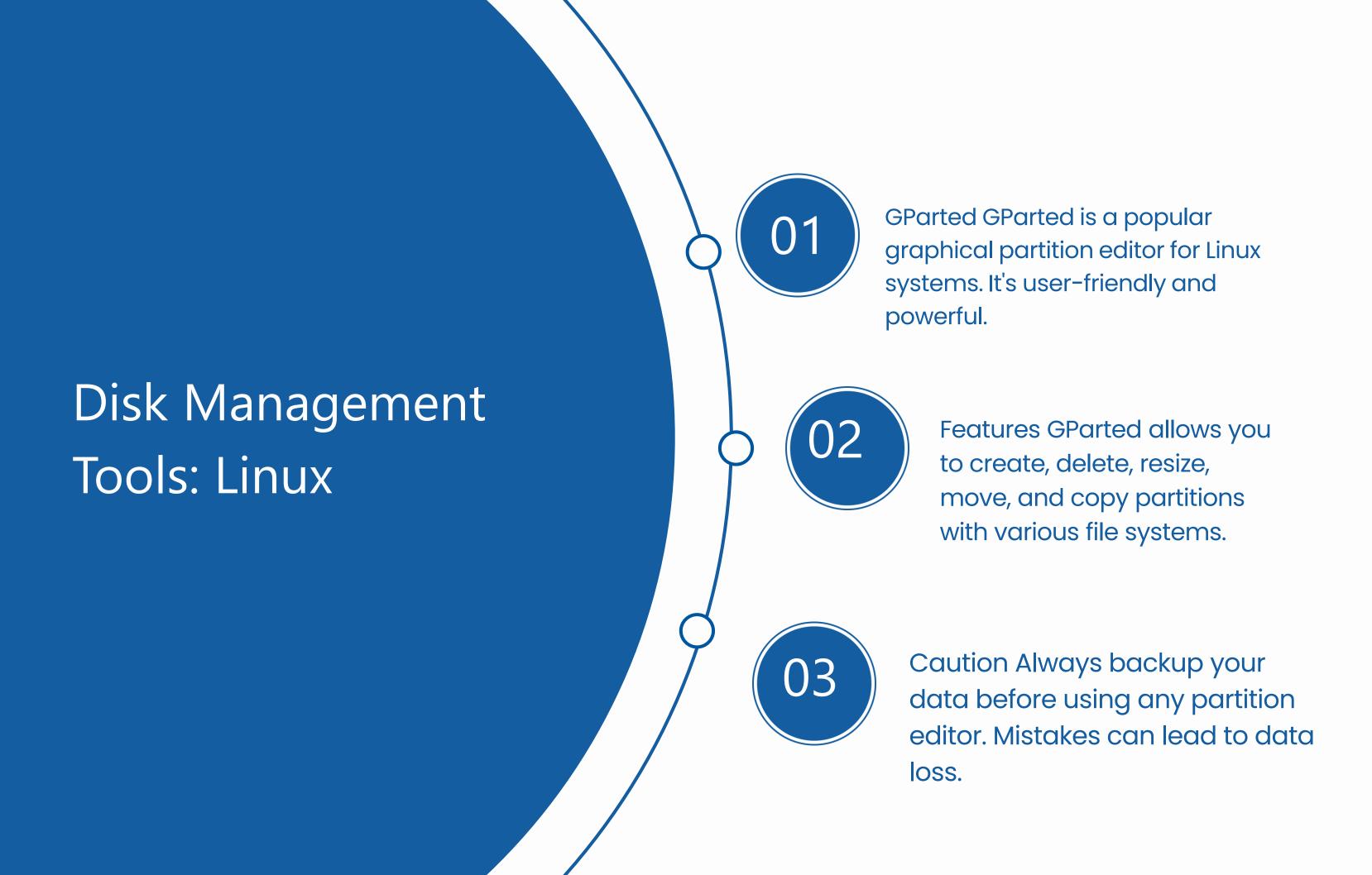


- Access Disk
 Management
- View DiskInformation
- Perform Actions

DISK MANAGEMENT TOOLS: MAC



- Accessing Disk Utility
- Viewing Disks
- Available Actions



Creating a Partition: Step-by-Step



Formatting a Partition



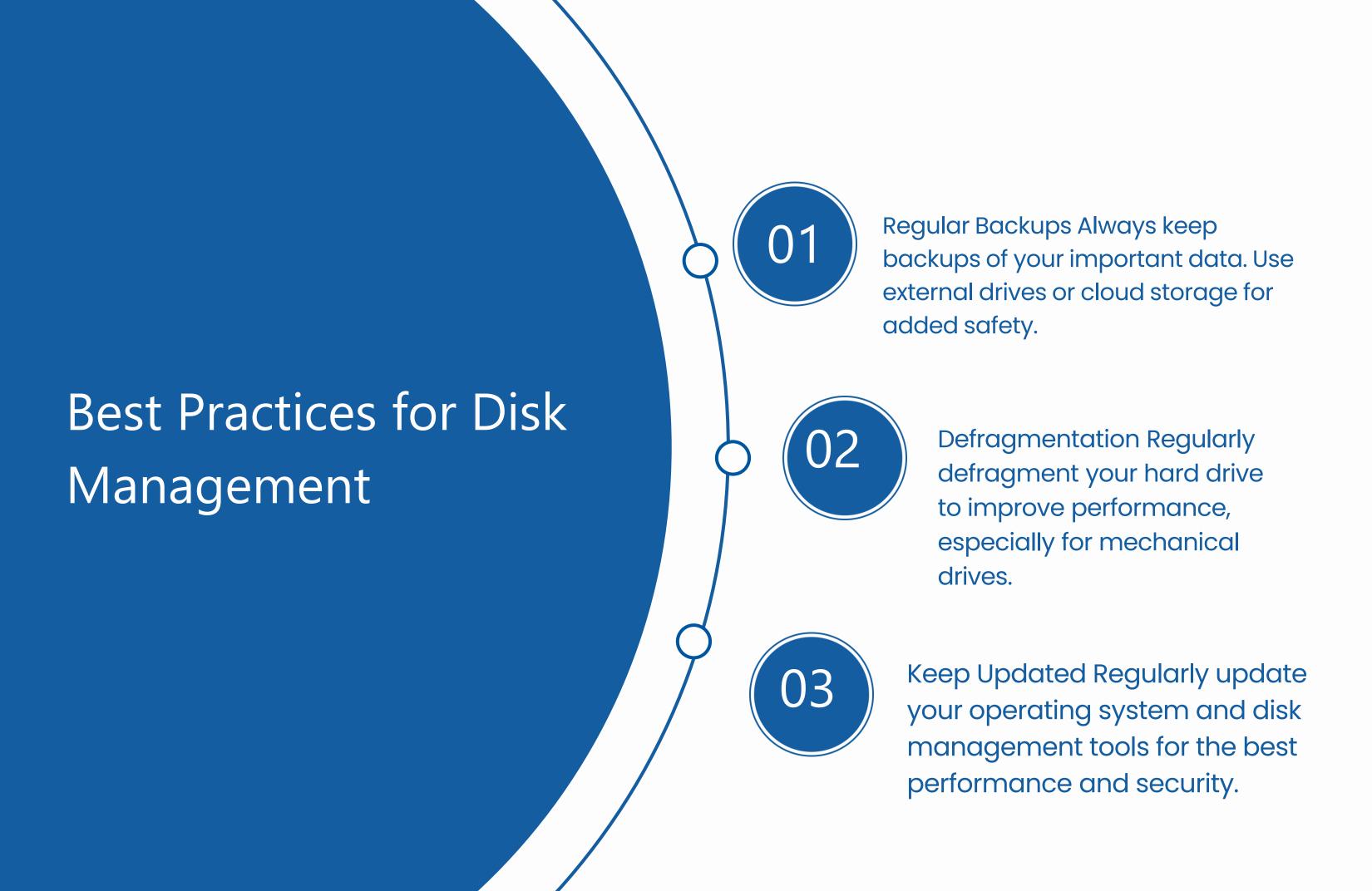
Definition



Choosing a File System



Quick vs Full Format



Troubleshooting Common Issues

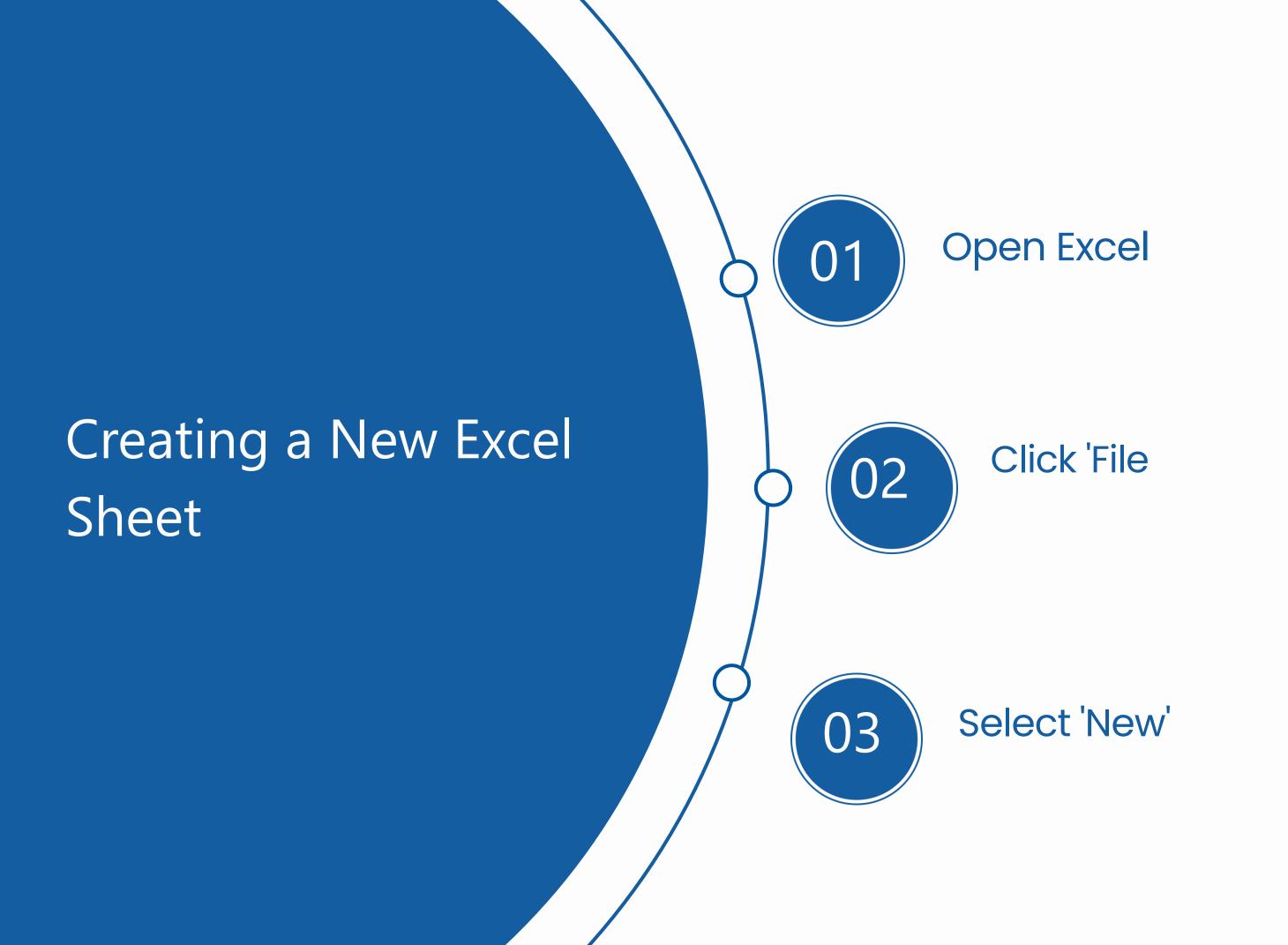
Issue	Possible Cause	Solution
"Disk Full" Error	Insufficient free space	Delete unnecessary files or resize partition
Corrupted Partition	Software/hardware failure	Use disk repair tools or seek professional help
Accidental Deletion	User error	Use data recovery software or restore from backup

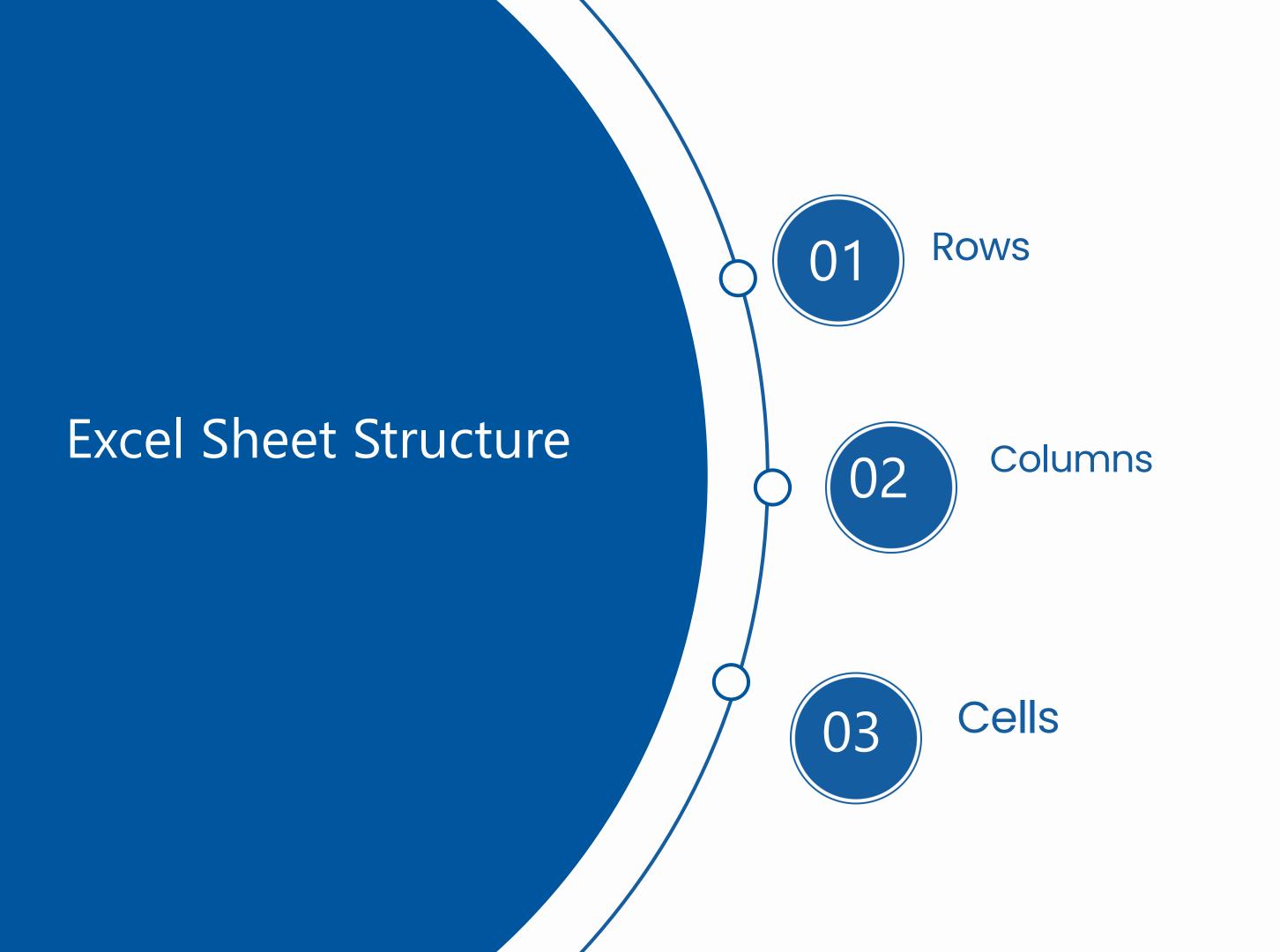
Future Trends in Disk Management

- Cloud Integration
- Al-Driven Optimization
- Advanced File Systems
 - Quantum Storage



EXCEL SHEET MANAGEMENT: A BEGINNER'S GUIDE Welcome to our comprehensive guide on Excel sheet management! This presentation will equip you with essential skills to organize and manage data effectively in Excel. Whether you're a student or professional, these basics will boost your productivity



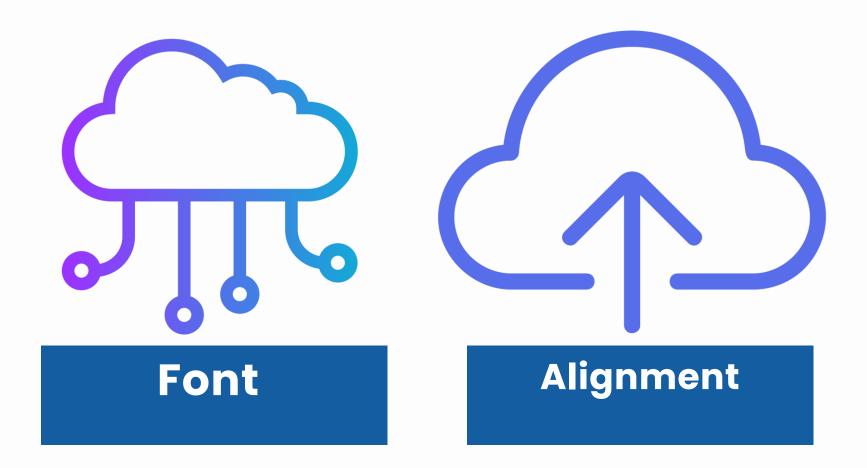


Entering Data

- Select a Cell
 - Type Your Data
- Confirm Entry
- Navigate Cells



Formatting Cells: Text





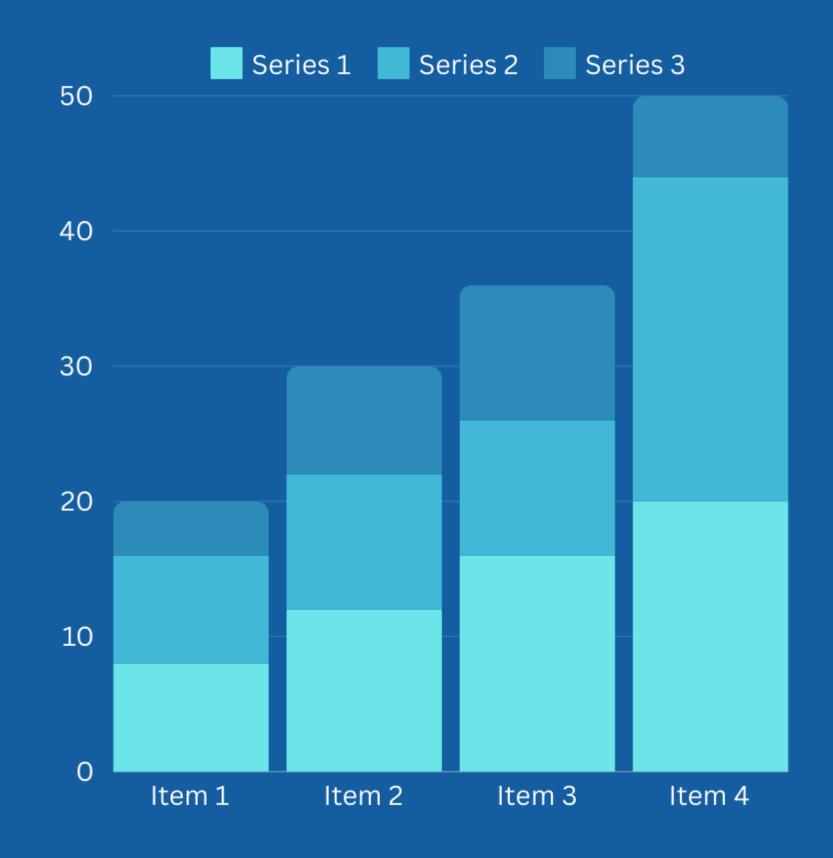


Formatting Cells: Numbers

Format	Example	Description
General	1000	Default number format
Currency	\$1,000.00	Adds currency symbol and decimals
Percentage	100.00%	Displays as percentage with decimals
Date	1/1/2023	Shows as date in various formats

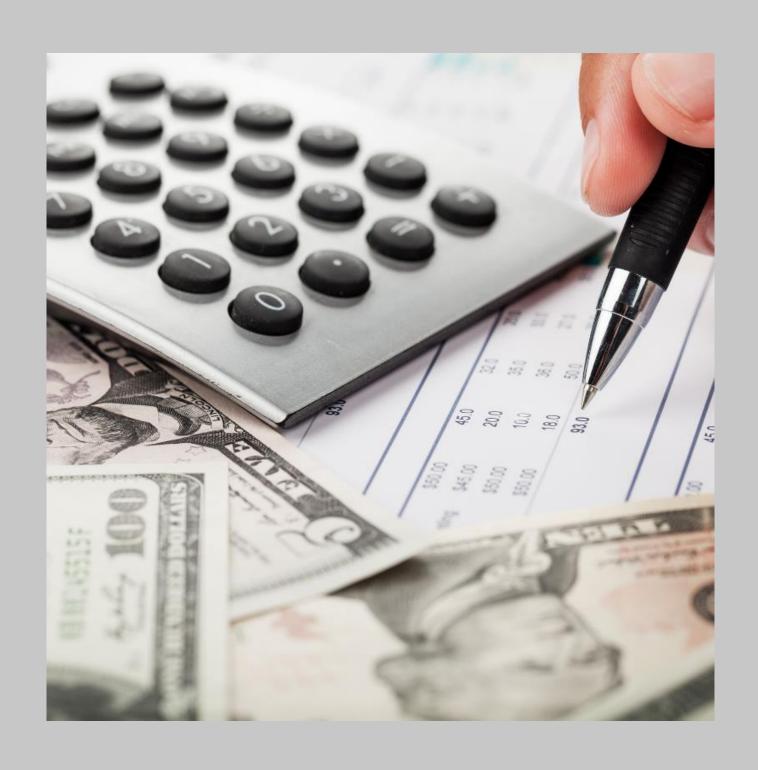
Creating a Budget Sheet: Setup

- Create Headers
- List Categories
- Add Data
- Format Cells

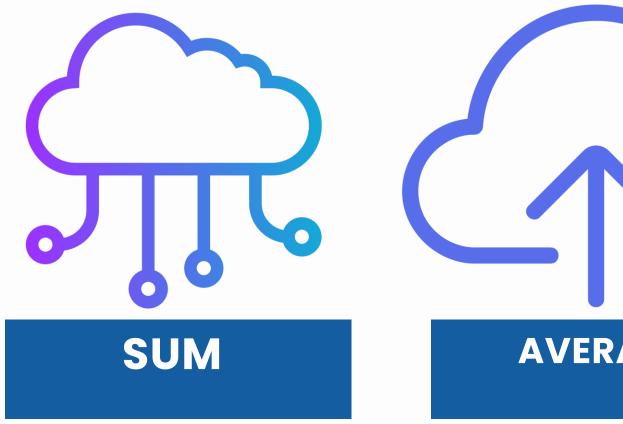


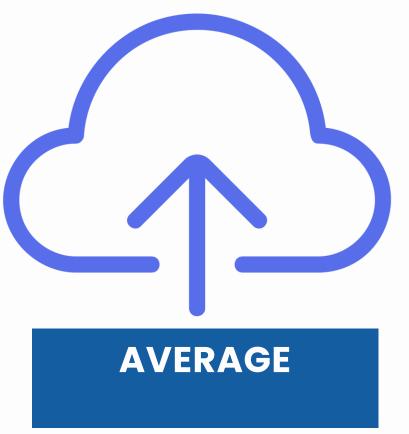
Creating a Budget Sheet: Calculations

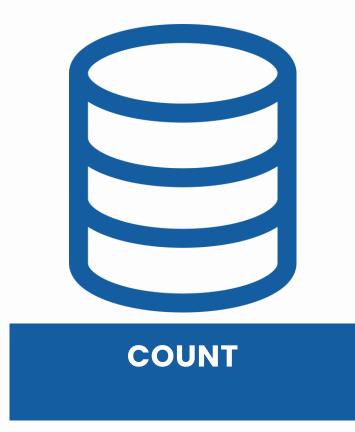
- Select Total Cell
- Enter Formula
- Select Range
- Confirm Formula

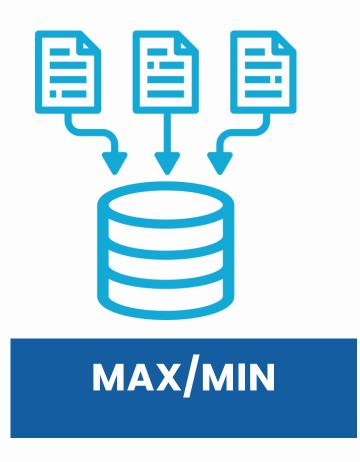


Basic Excel Functions



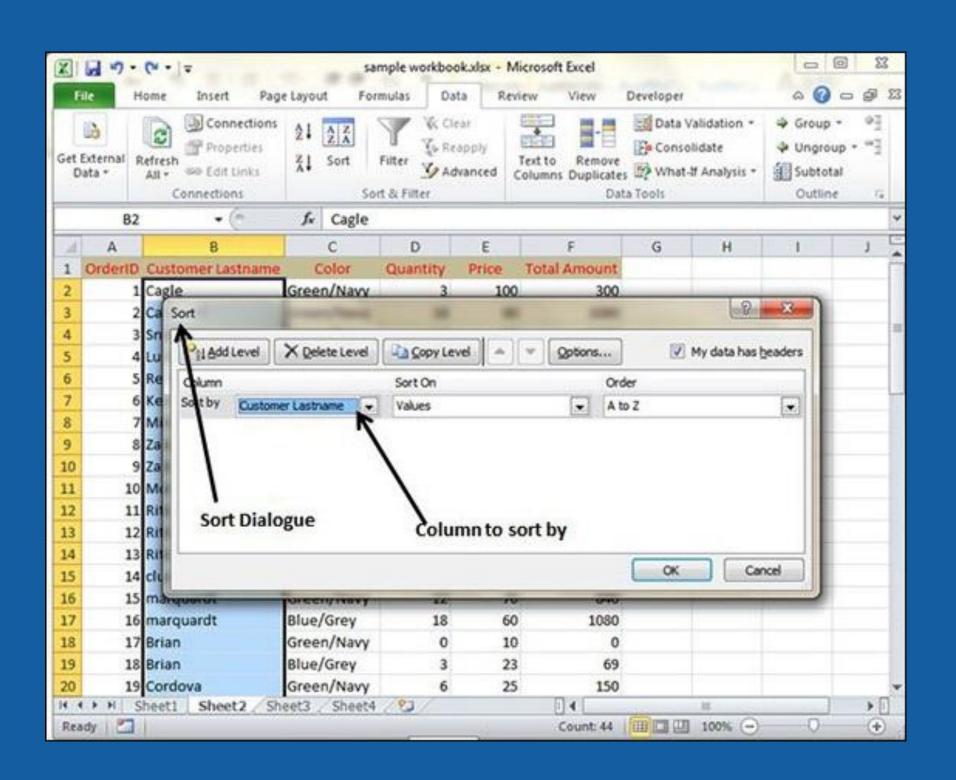


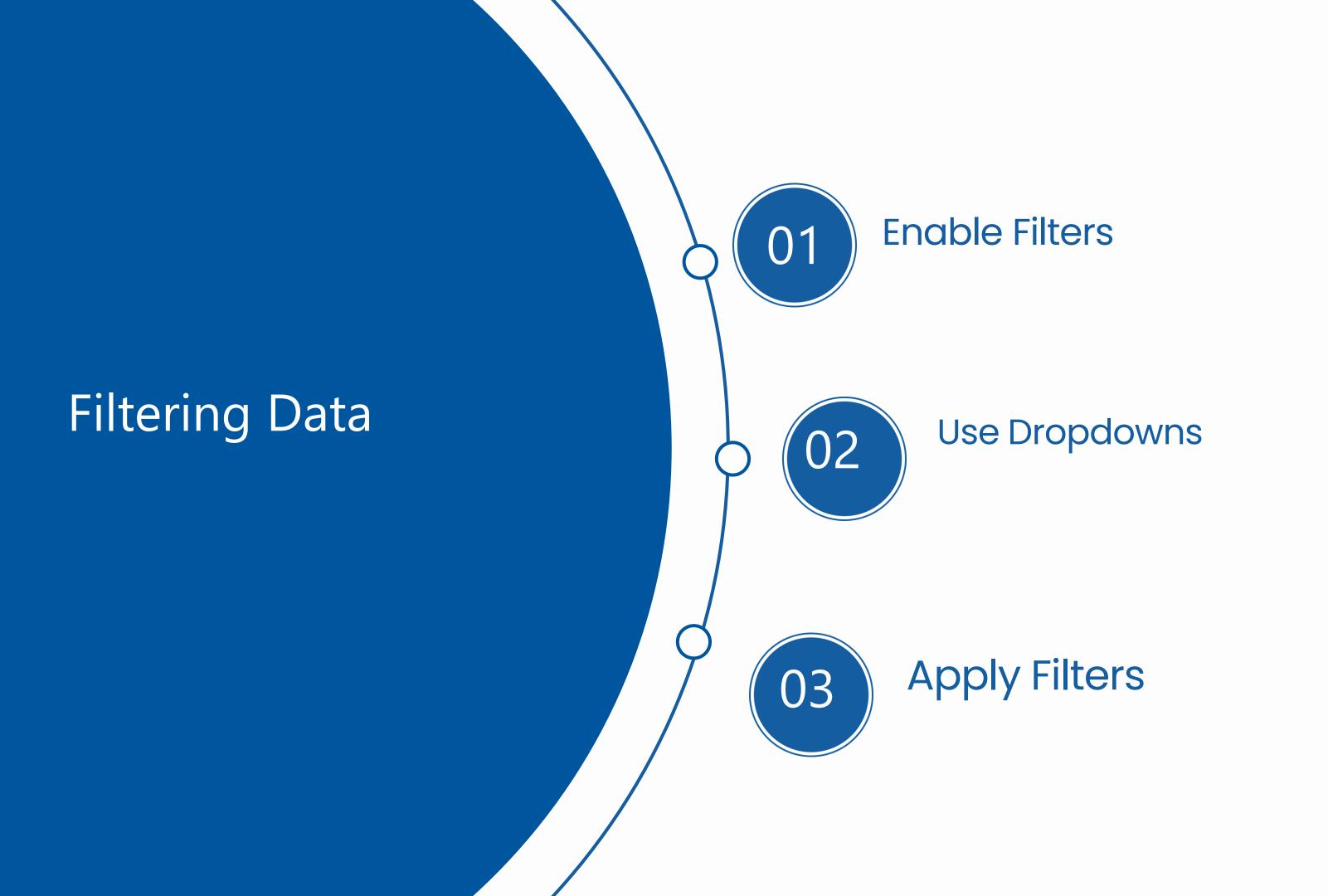




Sorting Data

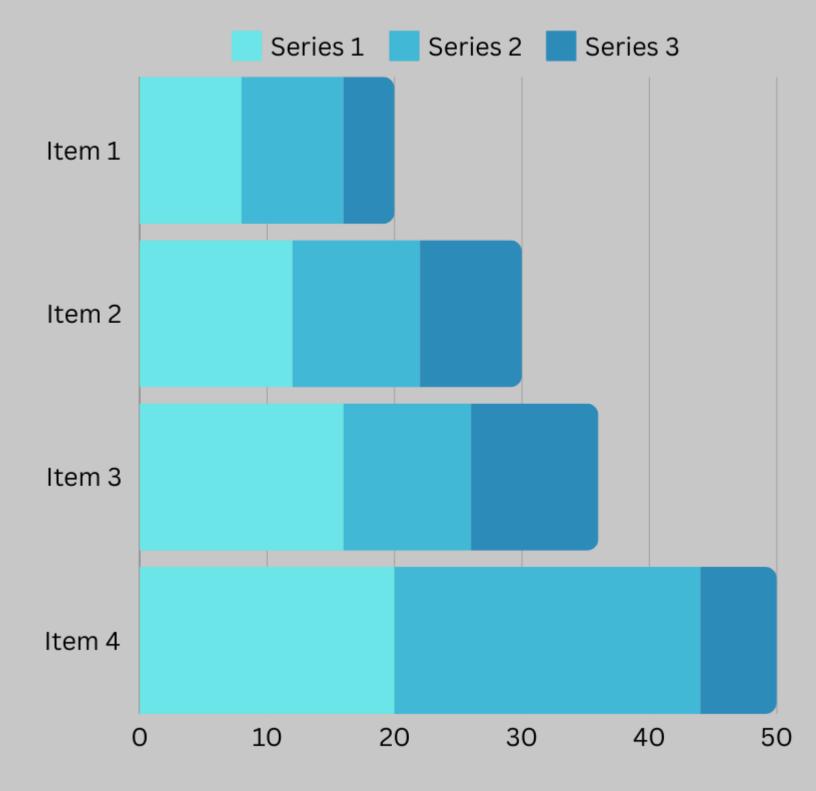
- Select Data
- Find Sort Button
- Choose Column
- Pick Order





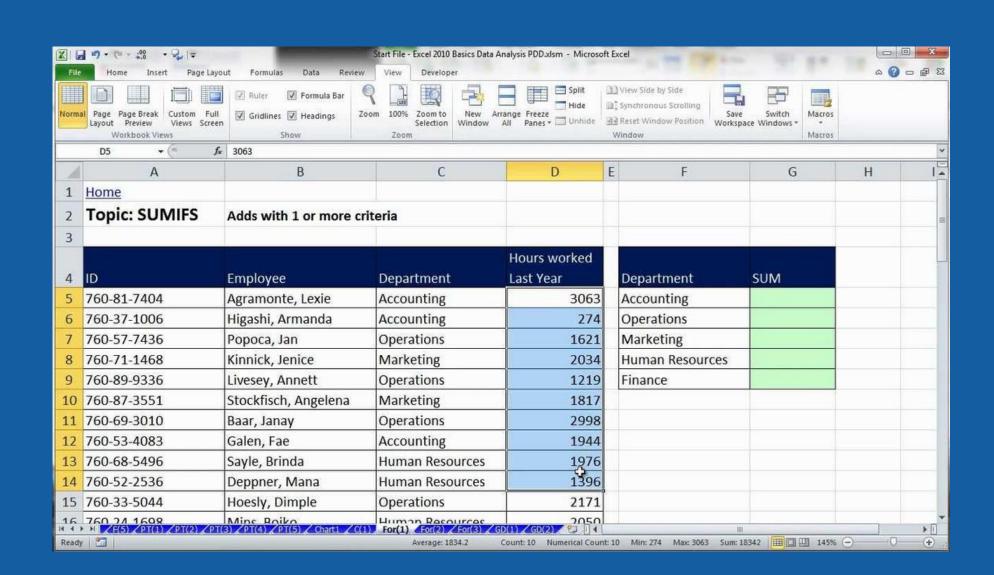
Creating Charts

- Select Data
- Insert Chart
- Customize
- Position

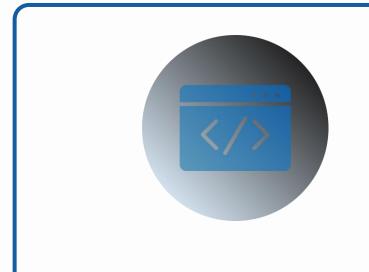


Homework Problem: Budget Sheet

- Create Sheet
- Enter Data
- Use Formulas
- Format Cells



Q&A Session



Open Floor



Topics



Clarifications

Thank You

Reference:....