

Mac OS

File Management



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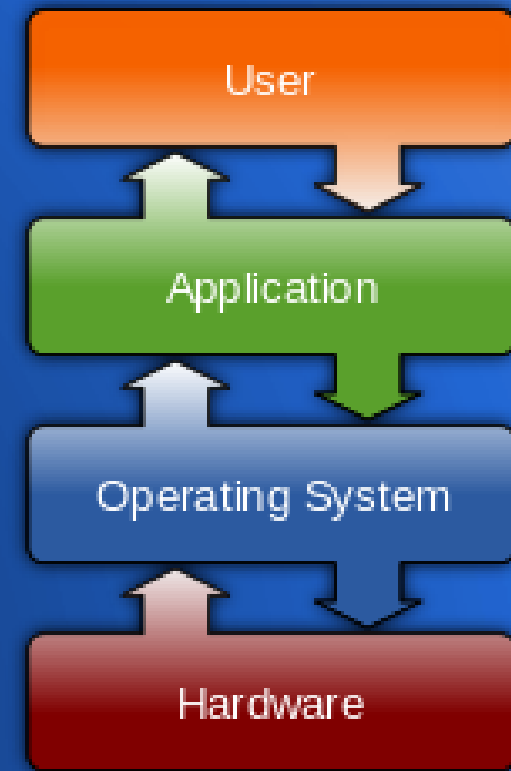
What is an Operating System?

Operating System is a software, which makes a computer to actually work.

It is the software that enables all the programs we use.

The OS organizes and controls the hardware.

OS acts as an interface between the application programs and the machine hardware.



Popular Operating Systems



Mac OS by
Apple



Windows by
Microsoft Corp.



Linux by
Community

Mac OS

Mac OS is a series of graphical user interface-based operating systems developed by Apple Inc. for their Macintosh line of computer systems.

Mac OS was designed only to run on Apple Computers.

In 1984, Apple introduced the Macintosh PC with the Macintosh Operating System.

Apple names its OS as “Mac OS”, beginning in 1997 which was previously known as “System”.



Advantages & Disadvantages of Mac OS

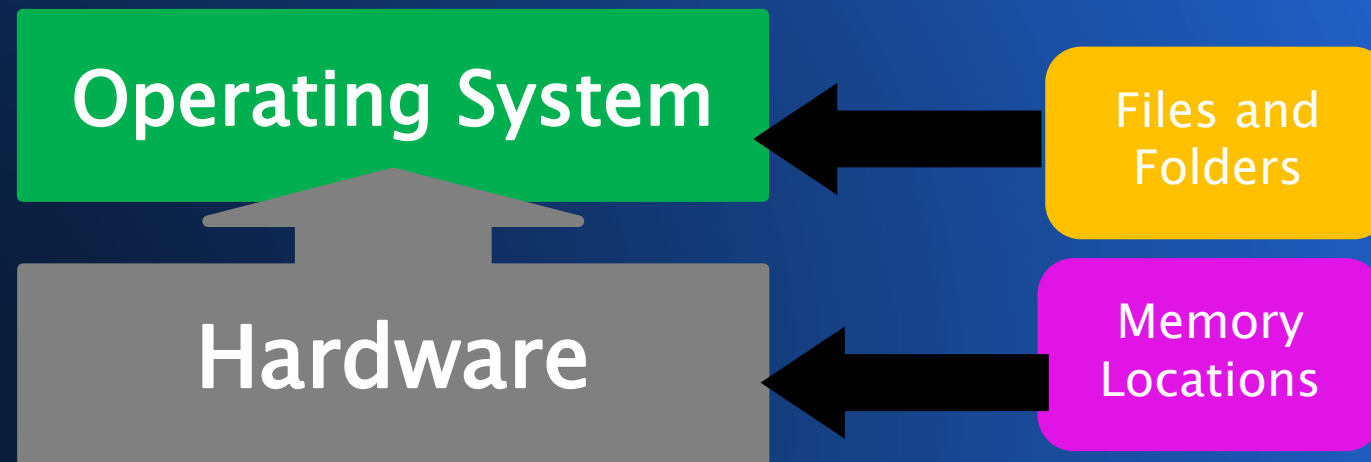
- ▶ Easy to Use
- ▶ Integration With Apple and Other Products
- ▶ Mac OS can run Windows at the same time
- ▶ Design

Disadvantage

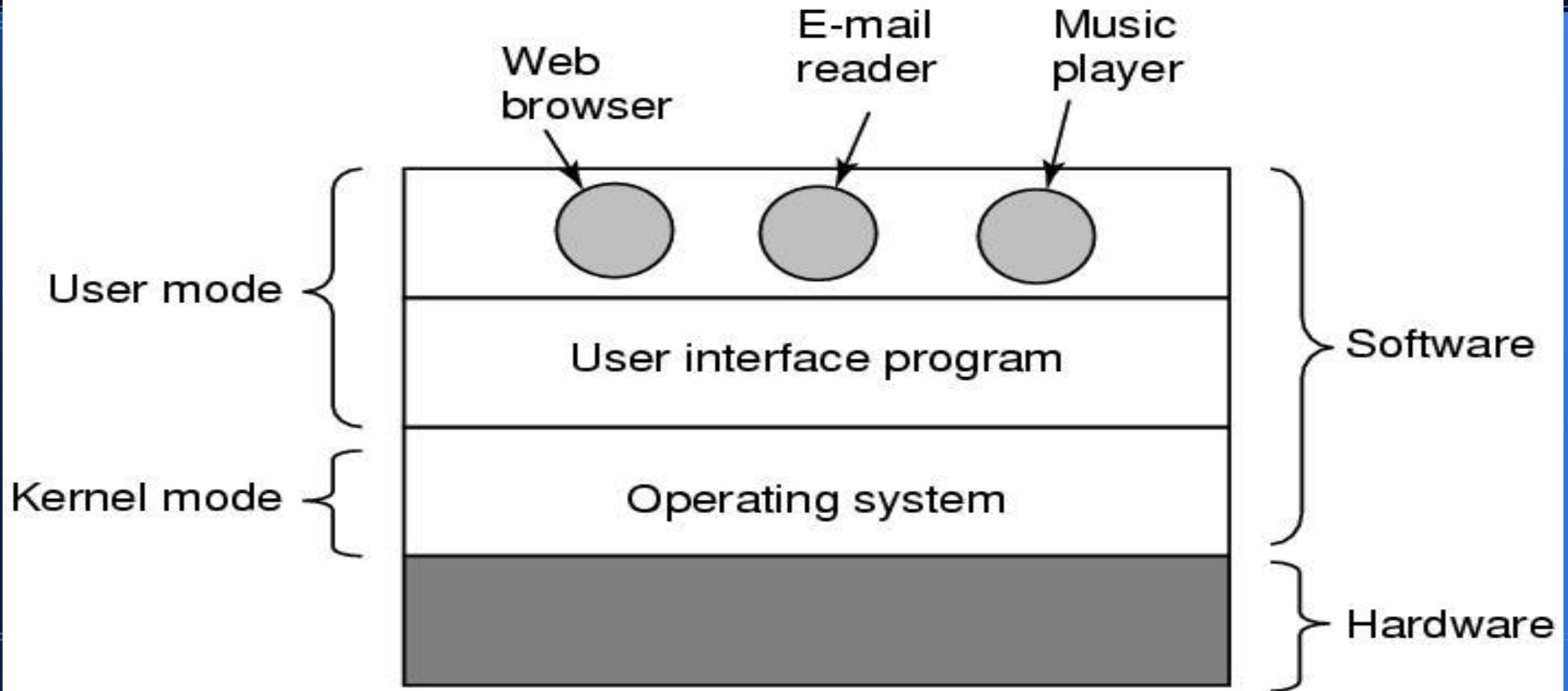
- ▶ Gaming
- ▶ Price
- ▶ Fewer Software Options
- ▶ Cannot be upgraded/customized

File Management

The File Manager (or File Management System) is the manager in the Operating System that creates the illusion that there are files and folders being stored in computer memory.



Where does the OS fit in?



File management could do ...

The File Manager

Keeps track of where files are stored

Determines how the files are stored

Follows operating system file allocation policies

Uses available storage space efficiently for files

Creates a record/log of all file usage

Allocates a file to a user if it is free, and if they are permitted access to it.

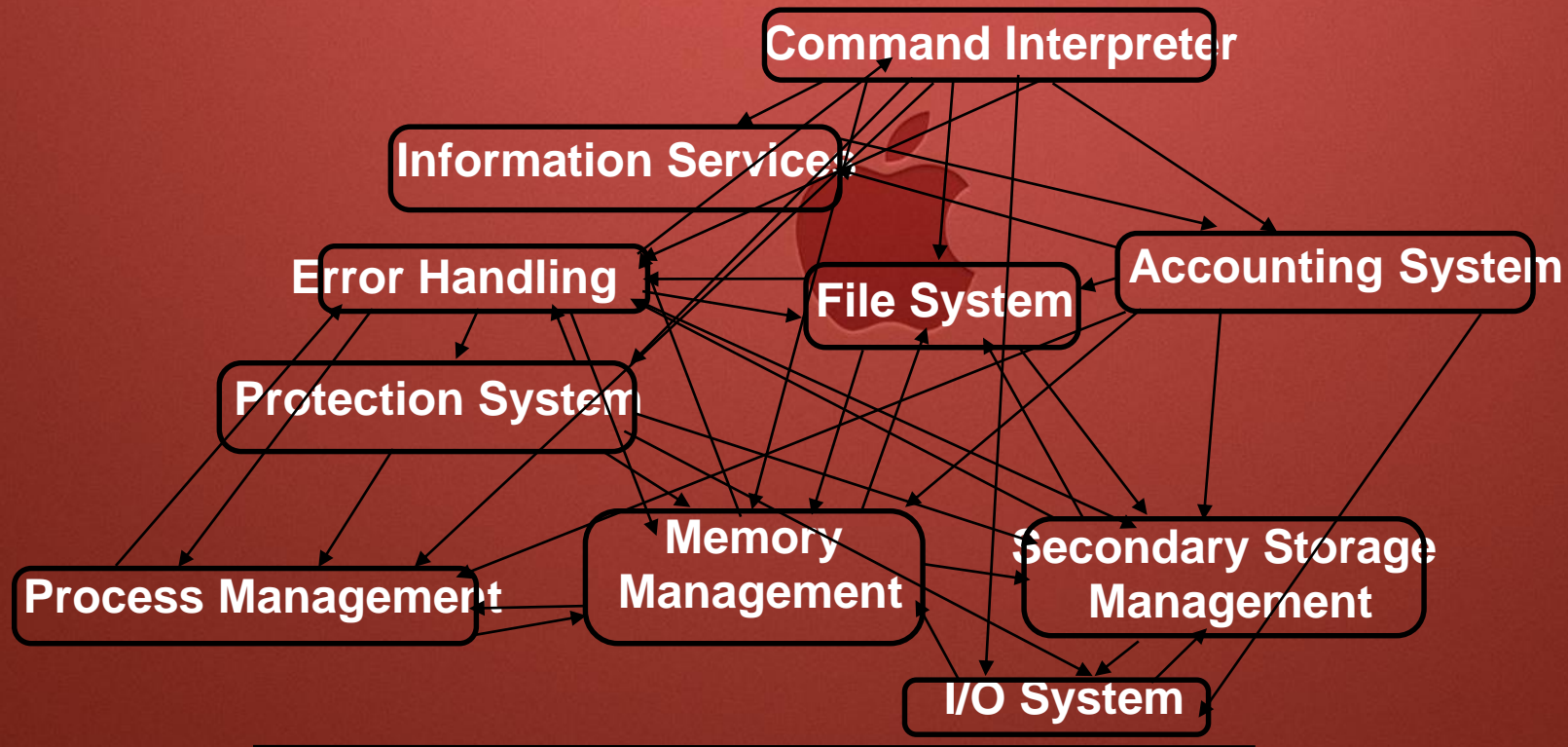
De-allocates file when user finished with it.

File Management

- ▶ Typical things you can do with a file are:
 - CREATE
 - OPEN
 - DELETE
 - RENAME
 - COPY
 - etc.



File management Structure in OS



Hardware

- ▶ The name of a file is usually in two parts:

- `MakeABackup.dmg`

Filename

extension

What are file extensions?

A file extension, or file name extension, is the letters immediately shown after the last period in a file name. For example, the file extension.txt has an extension of .txt. This extension allows the operating system to know what type of file it is and what program to run when you double-click on it.

.avi	Microsoft Video for Windows movie
.dbf	dbase II, III, IV data file
.doc(x)	Microsoft Word for Windows
.gif	Graphics Interchange Format
.htm	Hypertext Markup Language (common web page file)
.html	Hypertext Markup Language (common web page file)
.jpg	JPEG graphic file
.mpg	MPEG Video file
.mid	MIDI music file

.pdf	Adobe Portable Document Format file
.ppt(x)	PowerPoint file
.psd	Photoshop file
.qxd	QuarkXPress file
.rm	Real Audio/Video streaming file
.rtf	Rich Text Format
.tif	TIFF graphic file
.txt	ASCII text file
.wav	Sound file
.xls(x)	Excel spreadsheet

- ▶ The full filename includes path information:

- ▶ `C:\macos\system\MakeABackup.dmg`



Absolute filename

Elements of File Management

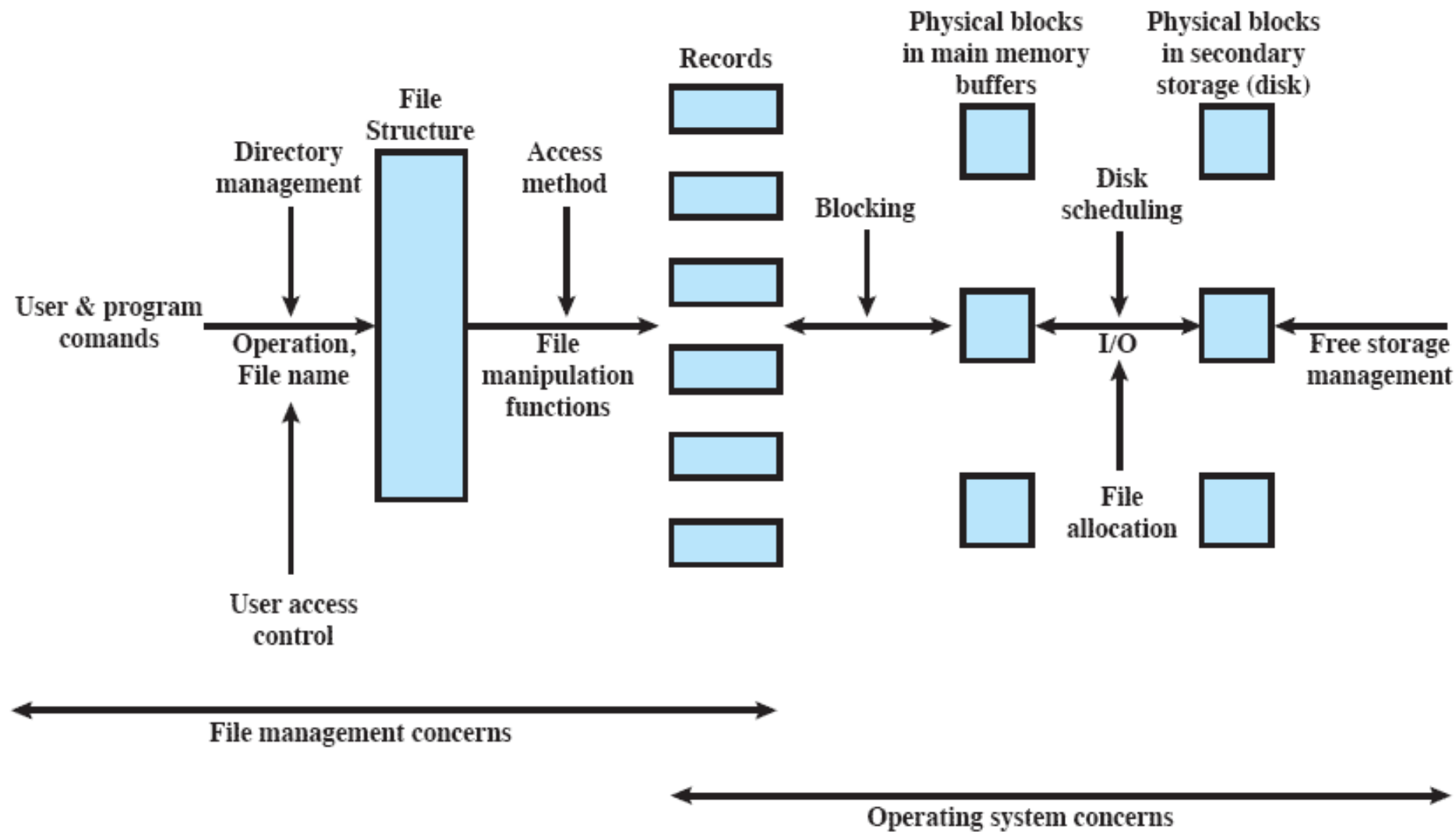
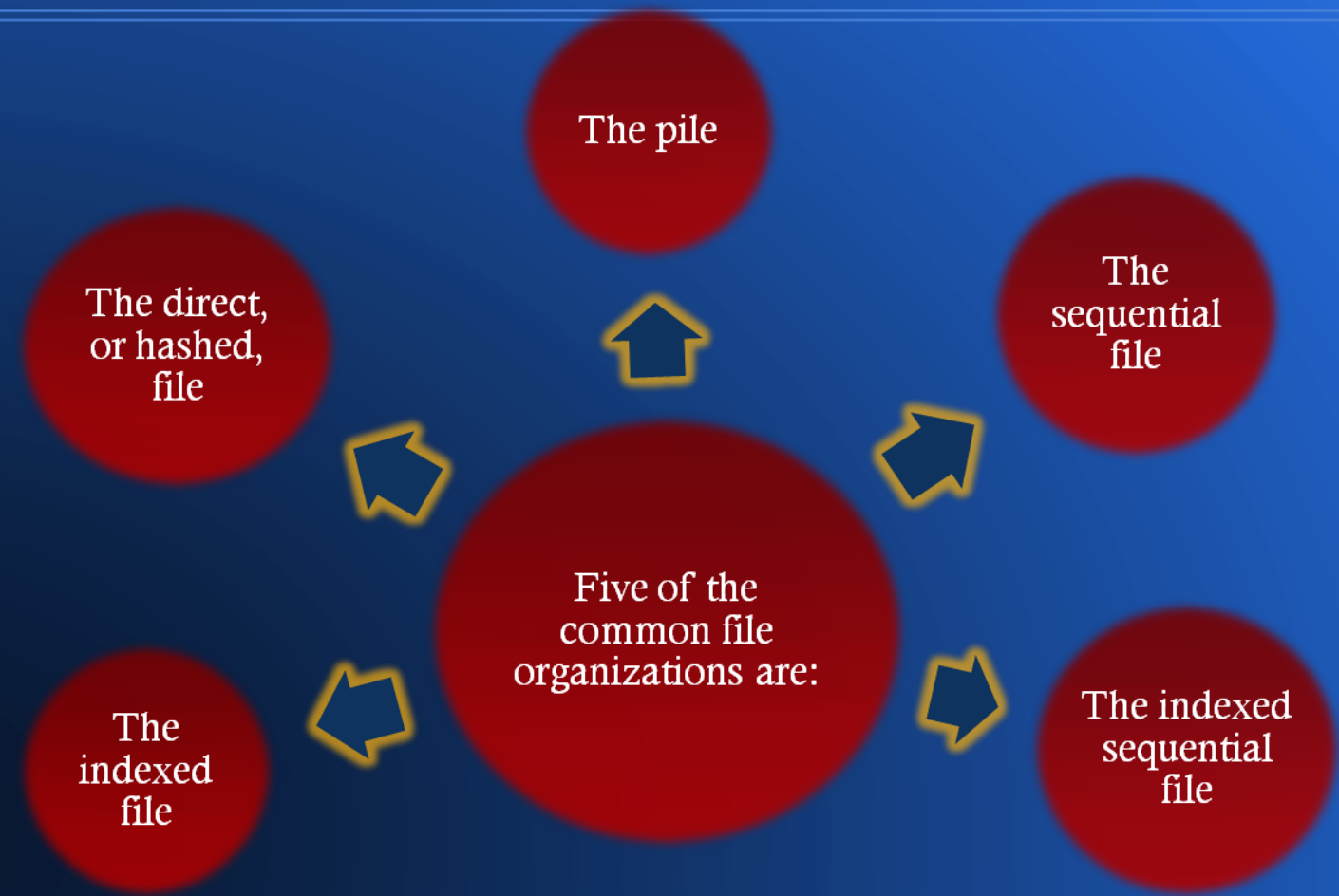
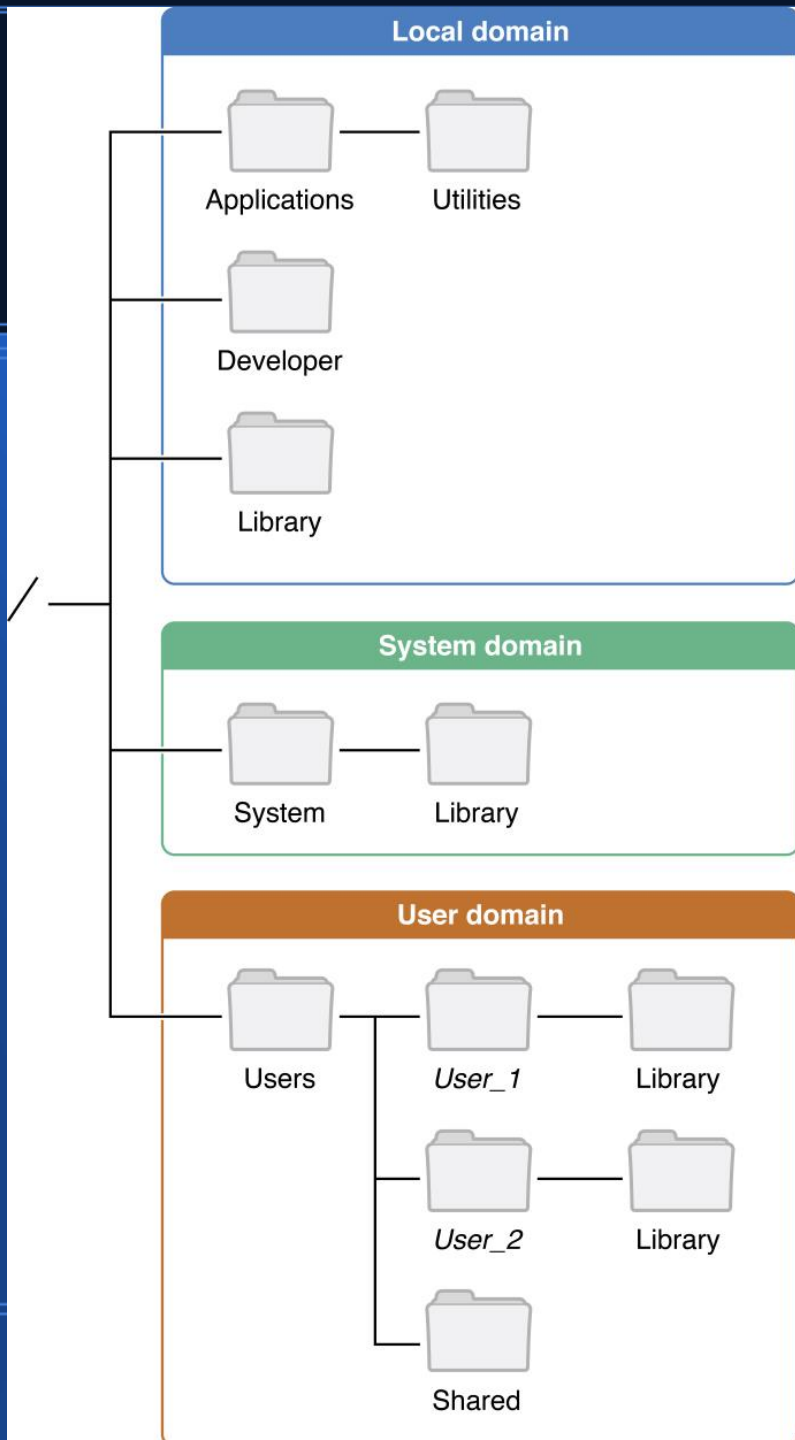


Figure 12.2 Elements of File Management

File Organization Types



The local macOS file system



Where Files Reside on Mac os

/Applications

Library

/Network

/System

/Users





thank you!