Session 5: Software Part 2

Tech Skills 101: Driver's Ed for the Digital World

For awareness

Note: You can learn more about by going to https://www.apple.com/os/ in your browser

- Apple has release new major OS versions
 - macOS Tahoe 26.0.1
 - iOS 26.0.1
- If you have not yet upgraded, consider waiting until the 26.1 versions of both are available—which is likely to be as early as the week of October 27
 - The 26.0 versions have some issues that cause "sluggish" behaviors and drain the battery
- When you do upgrade, be prepared to spend time exploring changes especially explore apps you use / depend on the most

Agenda

- File system basics including (a lot of) terms
 - 1. Files and folders are arranged in a hierarchy
 - 2. Some apps *implicitly* save/read stored data for you and some apps require you to take explicit steps to save/read stored data
- Common scenarios
 - File manager apps
 - Accessing files via an app
- Time permitting: Backing up and cleaning up

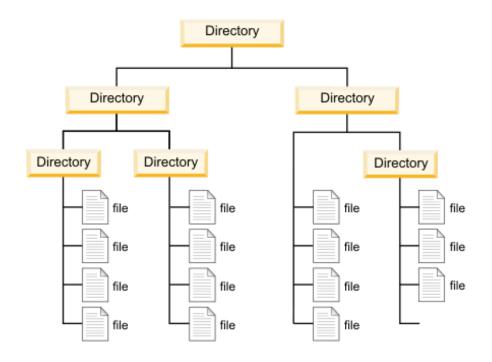
File System Terminology

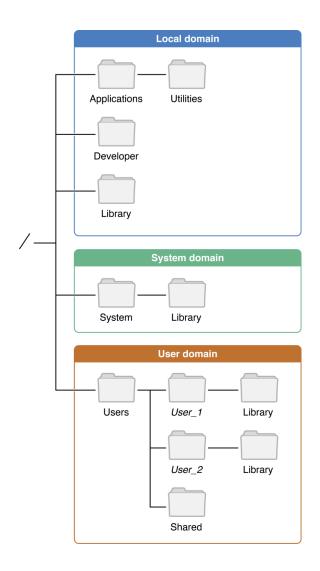
drive	 A storage device Short for "disk drive" Kinds Internal: the storage device found inside your desktop, laptop, smartphone, and/or tablet External: a HDD or SSDD that you attach to your desktop/laptop/smartphone/tablet using a physical USB connection Cloud: storage space "in the cloud" (often Apple's iCloud, Microsoft OneDrive, or Google Drive)
file	 A collection of digital data stored as a single object on a drive The type of data stored in a file depends on the <i>file type</i>
folder	 A collection of files and/or other folders <i>Directory</i> is a synonym for "folder" Note: Some apps implement a kind of folder to help you organize things in the app itself (e.g., browser bookmark folders); these folder <u>are not</u> file system folders
path	The location on a drive of a file or folder
alias	 A "shortcut" (also referred to as a "reference") to a file or folder An alias looks and acts like a the file or folder it refers to
metadata	 Data that defines/describes the characteristics of other data E.g., the title, author and publication date of a book are metadata about the book
smart folder	 A folder whose contents using some criteria you specify. Criteria can include things like age, type, etc

File System Metadata

name	 File and folder names can be up to 255 characters long File/folder names cannot contain some characters (E.g., "/" and "\"
type	 Data is arranged in a file in some format The type (of "kind") of a file indicates it's format A file's type is indicated by Its icon Its file name extension (which may not be shown to you in the UI) The OS uses a file types to associate files with apps This is how the OS knows which app to open a file in when you open a file using a file manager
 date/time created date/time last accessed date/time last modified 	 The date and time the file or folder was created, last opened (i.e., accessed/read), last changed (i.e., modified/updated) The file system uses this metadata to To populate your "Recent" smart folder To remove items in the Trash folder after some period of time
geolocation	 The physical location you were at when the file was created Geolocation metadata is only included with some types of files Pictures/videos you take with your device are a primary example

File System Hierarchy





Special Folders

Notes:

- The names used here are "Apple centric"
- · Some of these special folders have different names on Windows
- Most of these special folders have not been present on iPhones and iPads—although that appears to be changing!
- Use the green special folders "to your heart's delight"; leave the pink one alone!

Applications	Contains the code of apps you have installed on your device
Documents	The <i>defacto</i> location for storing files you create using apps on desktops/laptops iPhones and iPads do not include this special folder
Downloads	Location a file is copied to when you download a file from the Internet
Library	 Contain files relating to the operating system and apps you have installed OS and app settings are stored here There are three different Library folders: System Library: contains files specifically related to the operating system Root Library: contains app related files that affect every user of the desktop/laptop User Library: contains app related files that affect your desktop/laptop configuration
System	Location of the operating system
Trash	 Always (and only?) find on the macOS doc Only found on desktops and laptops; not found on iPhones or iPads
Users	 Contains user account "profiles" Only found on desktops and laptops; not found on iPhones or iPads

File manager apps

A *file manager* or *file browser* is a computer program that provides a user interface to manage files and folders.

from wikipedia.org

On **macOS**, the file manager is called **Finder** and the app icon looks like:

On **iOS**, the file manager is called **Files** and the app icon looks like:

On **Windows**, the file manager is called **File Explorer** and the app icon looks like:







File manager app functions

- Open files
- Search for files and folders
- Copy files and folders
- Move files and folders from one folder to another
- Delete files and folders
- Modify file and folder properties

Demo

- With Finder
 - · Moving around the hierarchy
 - · Changing views
 - · Creating new folders
 - · Moving files and folders
 - Moving a file to your desktop
 - · Deleting files and folders
 - The sidebar: Favorites, cloud drives, external drives
- An app that implicitly saves your data to the file system: Contacts
- An app that requires you to explicitly save your data: Pages
 - · Look at the File menu
 - · Creating a new file
 - Using the same name as an existing file
 - · Opening an existing file

Backing up & Cleaning up