

Revised 2018-09-07

Summary

Save your files within a local folder called Projects. Name each subfolder with a unique project number and description, such as "21416.0000 UNM-G Campus FMP Update."

Make it easy for your team members to locate and traverse your work.

Standard Folders

The root directory of an ARC workstation typically contains the following notable folders:

- **△** Applications
- **△** Library
- Projects
- **■** Proposals
- **△** System
- **△** Users:
 - ♣ AccountName:
 - Public:
 - **■** Drop Box
 - **■** Desktop
 - **■** Downloads

Enter a Project Number: 21319.1330 : LCPS: Special Planning Tasks 21319.1320 : LCPS: GIS Assistance 21319.1310 : LCPS: FMP Annual Update 21318.1530 : Santa Fe County FCA Web Application Maintenance

21318.1520 : Santa Fe County FCA Parks and Open Space

Refer to your project manager, office manager, or the ARC Time Sheets web application for a list of active project numbers.

Project Organization

The Projects folder is the central location in which your work files reside. Inside, create subfolders for each of your active projects. Name each of these project folders with a preassigned numeric code and descriptive title.

Examples of individual project folder names:

- ≥ 21416.0000 UNM-G Campus FMP Update
- 21506.0000 NMSU Carlsbad Early Childhood Center
- 98000.4000 Research and Development

The Proposals folder contains material for work bids and marketing resources. Each subfolder within Proposals should contain the solicited entity's name and the four-digit year of the submission.

Proposals and pre-project work lack a unique identifier code, but may fall under the category of "98000.100 - Administrative - Marketing."

Examples of individual proposal folder names:

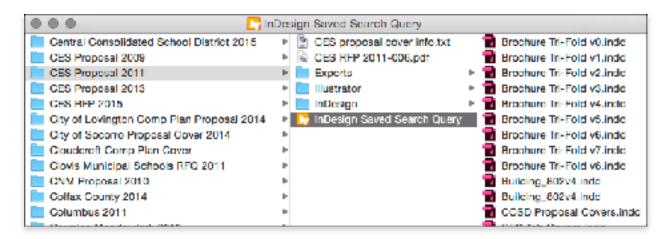
- **■** Colfax County CP 2014
- **■** Taos Pueblo Planning 2012
- Roswell PS FMP 2015

Project Subfolders

Store project documents inside their designated project directory. Ideally, a project folder should be a self-contained root entity with no external dependancies. It may be helpful to group files by category, such as all image files grouped within "Graphics" and all Excel workbooks in "Spreadsheets." Some examples of project subfolders appear below:

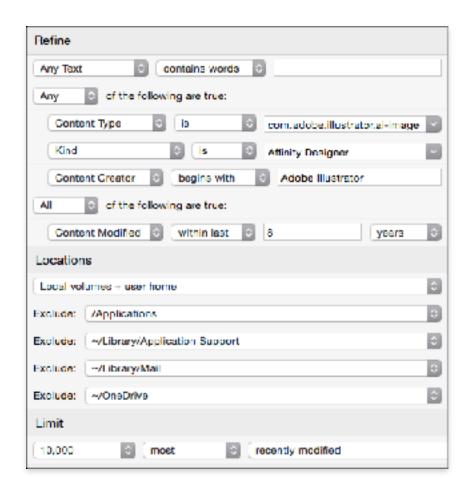
- **■** Projects:
 - 21416.0000 UNM-G Campus FMP Update:
 - **■** Graphics
 - **■** InDesign
 - **RFP**
 - Notes
 - PDFs
 - **■** Reference
 - **■** Correspondence
 - **■** Spreadsheets

You can also use a Spotlight search query¹ as a non-hierarchal meta-folder. This approach lets you view disparate documents in a convenient, consolidated location.In the example below, "InDesign Saved Search Query" is a virtual folder that contains recently-modified report files scattered across various locations:



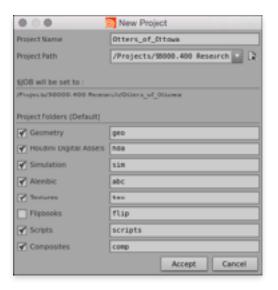
¹ https://en.wikipedia.org/wiki/Spotlight (software)

A Spotlight search query displays its results instantly and remains "live," revealing new content as conditions change. Spotlight searches can have elaborate criteria that govern their contents:



Applications like Apple Xcode² and Side Effects Houdini³ can generate a new project hierarchy with various subfolders automatically. Another approach is to clone an existing folder template populated with common subfolders and empty support files.

Other applications like Adobe InDesign can assist with organization by consolidating all referenced links and support files into a new subfolder with a File > Package command.



² <u>Application Development Tools - https://developer.apple.com/xcode/</u>

³ 3D Graphics Software - https://en.wikipedia.org/wiki/Houdini (software)

File Names

Name your files with concise, descriptives titles that denote their content. Use capitalization and punctuation where appropriate. Use a readable and consistent naming convention for each file and avoid producing a jumble of

indecipherable characters.4

Examples of Good Titles

"Title Case Format with Whitespace v1.ext"

"CamelCaseFormatv2.ext"

"snake case format v3.ext"

"spinal-case-format-v4.ext"

"all lower case 2016 v5.ext"

"Final Report March 1999 v2.doc"

Examples of Poor Titles

"SCREAMINGCASEFORMATV1.EXT"

"Document1.doc.docx.ext"

"UNTITLED1 repport+final 3/99 (2) rev10 PDD.ext"



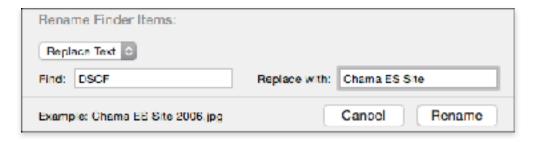
File Extensions

Most applications automatically append a suffix to a file's name, indicating the type of data it contains. Primitive computing platforms⁵ rely exclusively on fragile file extensions to determine file type, but modern systems employ smarter, more reliable methods.⁶

Unique File Names

Use unique file names in each folder. Most operating systems forbid name collisions,⁷ in which two different files in the same directory share the same name. If such a conflict arises, the computer will either forcibly rename the offending files, or simply overwrite one of them. In either case, you could lose data.

Digital cameras tend to produce images with forgettable names like "DSCF2032.jpg." Take advantage of your computer's automation features to assign meaningful file names to a batch of files at once.



⁴ Purdue Data Management - http://guides.lib.purdue.edu/content.php?pid=440001&sid=4901667

⁵ DOS Short File Name - https://en.wikipedia.org/wiki/8.3_filename

⁶ Intelligent Data Type Classification - https://en.wikipedia.org/wiki/Uniform Type Identifier

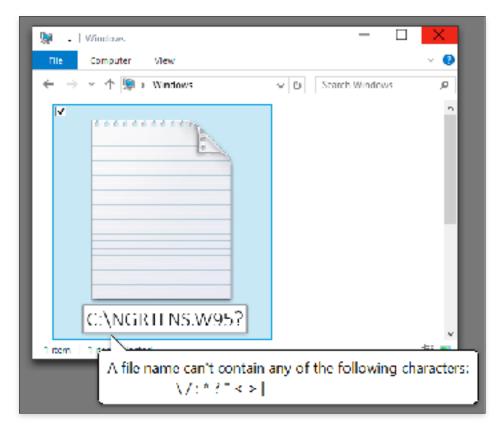
⁷ https://en.wikipedia.org/wiki/Name collision

Forbidden Characters

The macOS filesystem has few restrictions of the characters allowed in a file name. But avoid colons (":") and forward slashes ("/"), which the system reserves as path separator identifiers.⁸ Microsoft Windows forbids many common characters including the asterisk ("*"), question mark ("?"), quotation marks ("'"), angle brackets ("<", ">"), and pipe ("|"). Word dividers like interpunct "." and space "" are usually fine, but can be problematic when transferred externally.

The computer will complain if it encounters a name it deems unsuitable.





⁸ https://en.wikipedia.org/wiki/Path_(computing)

Versioning

Save iterations of your files. Before making major changes to a document, duplicate it and append a new version number to the end of its name.⁹

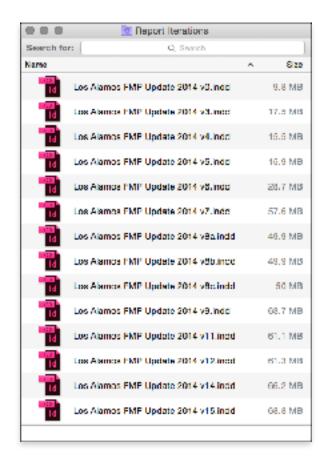
Example of a file iteration sequence:

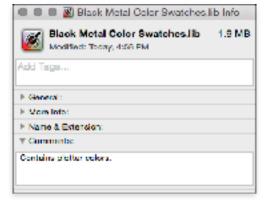
"West Capitol Campus Conceptual Map v1.ai" "West Capitol Campus Conceptual Map v2.ai" "West Capitol Campus Conceptual Map v3.ai"

You may need to further distinguish a file version with your initials or a date stamp:

"West Capitol Campus Map for Print v3.ai"

If tacking data onto a file's name becomes cumbersome, try adding that information to the file's comment field.¹⁰ You can reveal this information panel by selecting a document in the Finder and choosing File > Get Info:





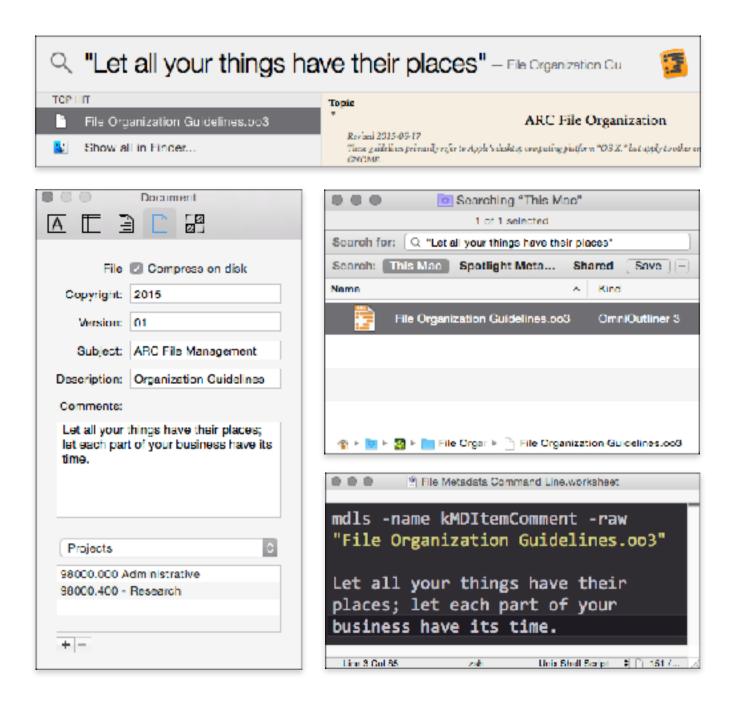


Text added to this field is visible within the Comments column header in each Finder window.

⁹ Revision Control Systems - https://en.wikipedia.org/wiki/Versioning_file_system

¹⁰ Version Control Guidelines - http://nidcr.nih.gov/Research/ToolsforResearchers/Toolkit/VersionControlGuidelines.htm

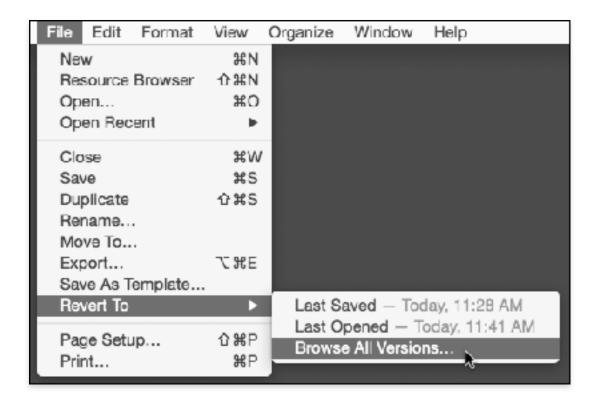
Many applications encourage you to attach metadata¹¹ directly to open documents. Metadata can include user-defined details like authorship, copyright terms, and search tags. This contextual information is visible in the Finder, Spotlight searches, and Unix command line¹² utilities.



¹¹ http://arstechnica.com/apple/2001/08/metadata/

¹² https://en.wikipedia.org/wiki/Command-line interface

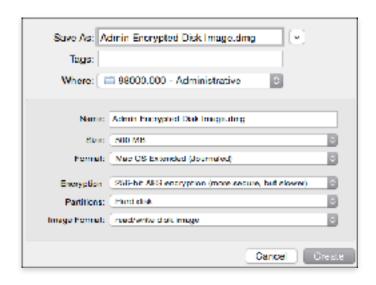
Some applications offer their own internal version history¹³ mechanism. While helpful, this feature is not a substitute for proper file-level document management.



Data Security

Password-protected Disk Images

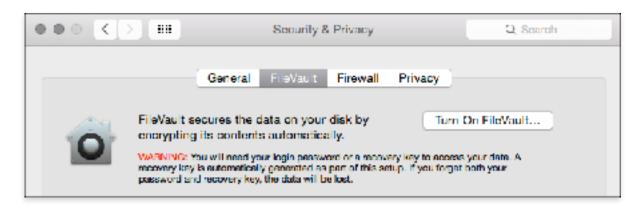
A disk image (with a ".dmg" or ".sparsebundle" file suffix) is a portable data file that behaves like a virtual hard disk. When unmounted, its contents are locked and inaccessible. Some of ARC's projects require high-level security protocols, and an encrypted disk image is an effective way too ensure your sensitive data remains private. You can use Apple's Disk Utility to create an encrypted disk image.

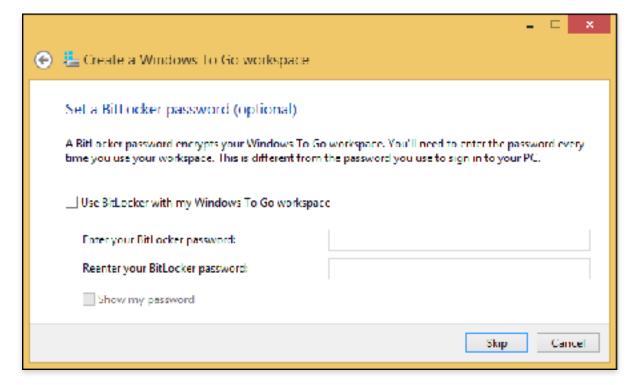


¹³ OS X Lion: About Auto Save and Versions - https://support.apple.com/en-us/HT202255

Full Disk Encryption

Another method of protecting data from unauthorized access is to encrypt the entire hard disk¹⁴ using a built-in system service. Examples include Apple FileVault,¹⁵ Microsoft Bitlocker,¹⁶ and dm-crypt¹⁷ for Linux.





¹⁴ https://en.wikipedia.org/wiki/Disk_encryption#Full_disk_encryption

¹⁵ https://support.apple.com/en-us/HT204837

¹⁶ https://en.wikipedia.org/wiki/BitLocker

¹⁷ https://en.wikipedia.org/wiki/Dm-crypt

User Folders

Desktop

The Desktop is the background area of the file browser, usually adorned with a wallpaper image or color tone. Use this area sparingly for temporary files. ¹⁸ Don't store project folders, files, or applications here. A more efficient way to quickly access your data is with Finder sidebar favorites, Dock shortcuts, and instant search utilities like Spotlight or LaunchBar. ¹⁹





Public > Drop Box

One of the default file sharing locations on macOS is called "Drop Box," and resides in the "Public" directory of your home folder. This folder has no relation to the popular commercial file synchronization service called "Dropbox.²⁰" If you receive a new item in this location, remember to move it into an appropriate project folder.



¹⁸ An Overly Cluttered Desktop Can Seriously Slow Down Your Mac - http://lifehacker.com/5893054/

¹⁹ Instantaneous Launching Utility - https://en.wikipedia.org/wiki/LaunchBar

²⁰ Cloud Storage Service - https://www.dropbox.com

Downloads

Files that you obtain through a web browser or email program usually end up in the Downloads folder in your home directory. Try to keep this location clean by periodically discarding outdated files.



Library

The hidden user library folder contains application settings and system configuration files. You'll generally have no need to modify its contents, but if you'd like to peek inside, hold down the Option key and choose Go > Library in the Finder.



Email

Try not to store email messages indefinitely inside your inbox. After reading a new message, either file it away or delete it.²¹ Don't force yourself to constantly sift through all those distracting old messages.²²

Some users create dedicated email folders corresponding with each active project, and store all related incoming and outgoing messages there. Others rely on dynamic searches and smart folders to keep relevant communications together. It can also be helpful to export an archive of a project's messages as a read-only copy for later reference.

When composing a new message, indicate its project (name, number, or other identifier) in the subject line as a courtesy to your recipient.

File Servers

ARC workstations can connect to various local network hosts to share project data. One such network host is called "Serfwyr," and contains shared volumes like "Active" and "FMPs." These network volumes should adhere to the same directory hierarchy as any other project folder, and is subject to periodic administrative reorganization.

When adding a new file to a server directory, also keep a copy on your local machine. If a network outage or server disruption occurs, you would still have access to your work data. Likewise, before editing a document that resides on a remote server, copy it to your local machine. If a network disruption struck in mid-edit, your data could become corrupted. Working from your local hard disk is faster, and allows your computer's built-in backup services to better protect your data.

²¹ http://xph.us/2013/01/22/inbox-zero-for-life.html

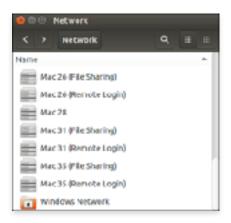
²² http://zenhabits.net/email-zen-clear-out-your-inbox/

Network Guest Access

You can view a list of available servers within a directory called "Network" in your file manager. Most workstations grant limited access permissions to unauthenticated guest connections.

Network Registered User Access

Many workstations require authentication before you can access them. The standards and procedures for ARC usernames and passwords are inconsistent. So at the moment, it's best to ask an office manager or IT manager for help with a connection.





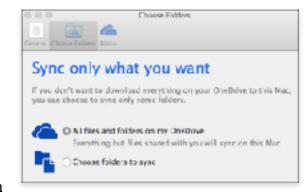
Commercial Synchronization Services

Online network file services like Dropbox, Microsoft OneDrive, and Apple iCloud have their own idiosyncrasies about file organization. For example, Dropbox places its synchronization

directory in your home folder by default. In order to keep your documents synchronized between devices, you may need to migrate active project folders to this alternative location.

Some services like Microsoft OneDrive offer granular control, allowing you to exclude certain subfolders altogether.

You can use symbolic links and aliases²³ to make a folder appear to exist in more than one location



simultaneously. For example, you can store a folder in Dropbox's default location, then drag an alias to your Projects folder. The folder's content remains accessible from either location, yet consumes no additional storage space.

²³ http://macs.about.com/od/faq1/f/What-Are-Aliases-Symbolic-Links-And-Hard-Links-In-Mac-Os-X.htm

Conclusion

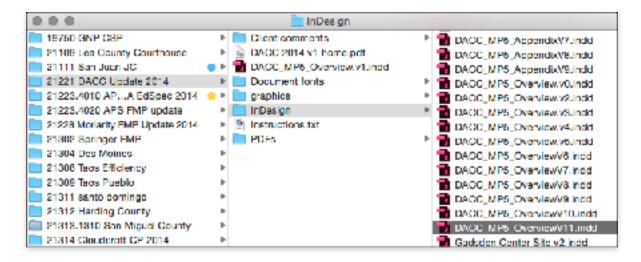
Keep your work files organized in a centralized location named **Projects**. Store related files together, use descriptive file names, and preserve iterations of each file as your project evolves. Don't store files permanently on the Desktop.

File Management Software

A file manager is a software application devoted to organizing and managing files and folders. Some examples appear below.

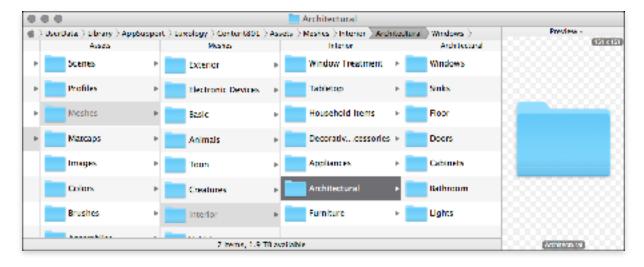
Apple Finder

https://en.wikipedia.org/wiki/Finder_(software)



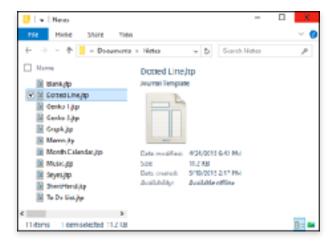
Cocoatech Path Finder

http://www.cocoatech.com/pathfinder/



Microsoft File Explorer

https://en.wikipedia.org/wiki/File Explorer



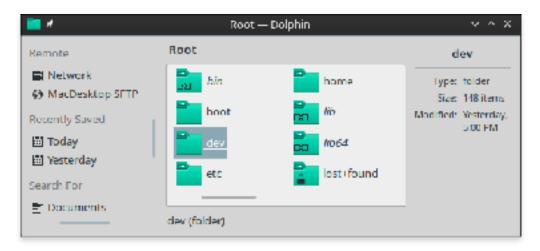
Haiku Tracker

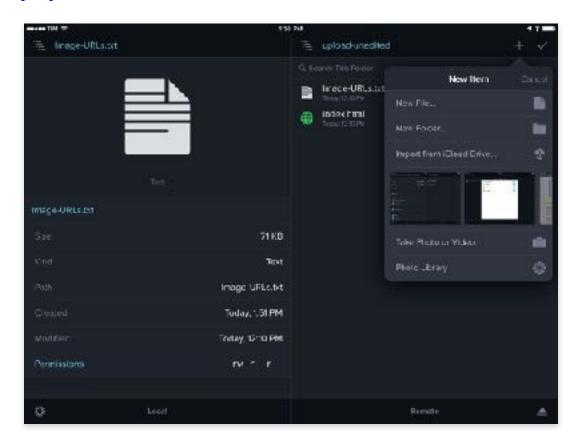
http://www.haiku-os.org



KDE Dolphin

https://en.wikipedia.org/wiki/Dolphin_(file_manager)





Other Useful File Resources

Objective Development LaunchBar https://www.obdev.at/products/launchbar/

Houdah Software HoudahSpot http://www.houdah.com

Apple Files (iOS) Storage Guide https://support.apple.com/en-us/HT206481

TLA DragThing http://dragthing.com

Zardetto, Sharon *Take Control of Spotlight for Finding Anything on Your Mac* http://www.takecontrolbooks.com/spotlight