Taking Advantage of Finder 7.0

Introduction

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Finder Product Manager

Apple’s Goals for Finder 7.0

- Preserve the Macintosh desktop metaphor
- Refine existing Finder features
- Make information more accessible
- Make file management more intuitive
- Make Macintosh more customizable

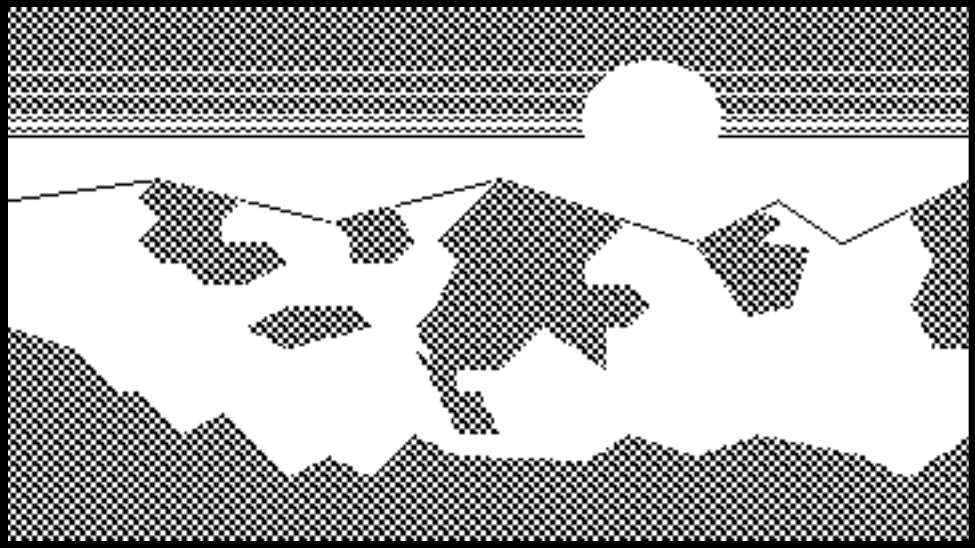
Overview

- The Fundamentals of Finder 7.0
- Demonstration
- Human Interface Update
- How applications benefit from Finder 7.0

The Fundamentals of Finder 7.0

Phac Le Tuan

Engineering Manager
Macintosh System Software



Finder Initiates the User

- First out-of-box experience
- Playground to exercise the basic skills
- Sets high expectations
- Safe place to return to
- Gives control to the user

Finder Inspires the Developer

- Role model for applications
- Showcase for Macintosh concepts
- Rejected features
- Don’t forget the whys

What's in it for you?

- Inspiration for implementing new concepts
- Details that make your application stand out
- Opportunities to fill functionality holes

Finder 7.0: The Significant Highlights

- Aliases
- Finder Finds
- New organization of the System Folder
- Finder AppleEvents
- Dropping on applications
- Finder Balloon Help
- FileShare integration

Demonstration

scott douglass and David Owens

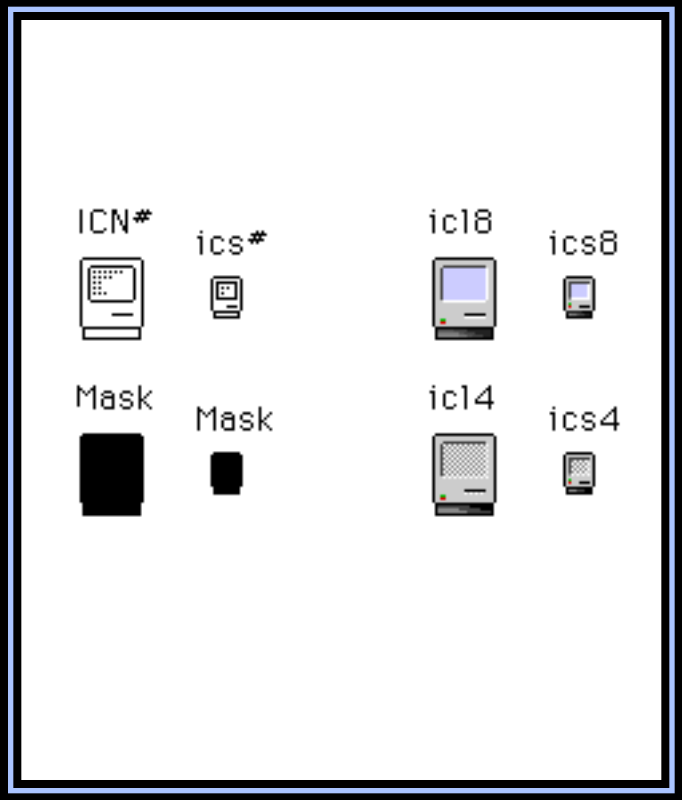
Finder 7.0 Engineering

Finder 7.0 Human Interface

John Sullivan

Macintosh Human Interface Group

Provide Complete Icon Families



- ICN# 32 x 32 1-bit
- icl4 32 x 32 4-bit
- icl8 32 x 32 8-bit

- ics# 16 x 16 1-bit
- ics4 16 x 16 4-bit
- ics8 16 x 16 8-bit

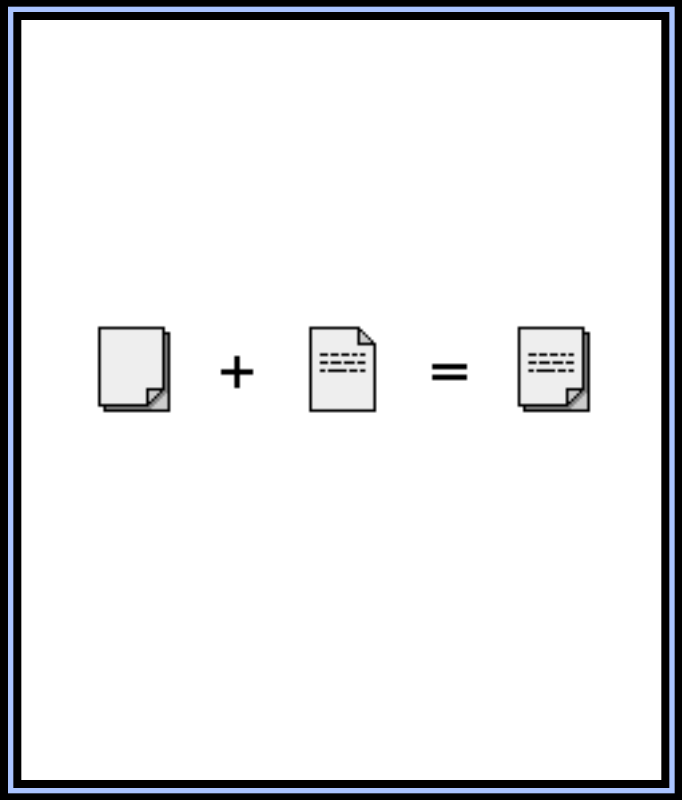
Icon Family Guidelines

- Consistent appearance across depths and sizes
- Aesthetics
- LOTS of B&W Macs in the installed base

Custom icons

- Distinguishable documents
- Follow all icon guidelines
- Provide custom icon family, not custom icon

Stationery



- Stationery-unaware applications
  - Generic icon
  - Opens a copy
- Stationery-aware applications
  - Specific icon
  - Opens in untitled window

System Folder Organization

- Out of control in System 6
- Special folders in System 7
- “Drop it into System Folder and it works”
- Use these folders consistently!

Folders Filled by Software

- Preferences folder
- Temporary Items folder
- New Call: FindFolder

Folders Filled by Users

- Apple Menu Items
- Startup Items
- Control Panels
- Extensions

DA, Control Panel, or Application?

- Drag 'em
- Double-click 'em
- Put 'em in the Apple Menu

Control Panels

- Persistent settings
- Simple Interface
- Open in the Finder
- INITs found only in Control Panels folder

Desk Accessories

- Technical difficulties
- Write a small application instead
- Only needed for 6.0, no-MultiFinder

Applications

- When in doubt, write an application
- Can be more fully featured
- Can support Edition Manager and AppleEvents

Finder 7.0 and Applications

John Meier

Finder 7.0 Engineering

Being MultiFinder Aware

- MultiFinder is always on in System 7
- WaitNextEvent
- Use "temporary" memory
- Changes to the Size resource
  - 32 bit clean
  - Accept AppleEvents
  - Accept Remote AppleEvents
  - Stationery Aware

Switching Disks and Servers Between System 6 and 7

- Desktop behavior
  - Desktop Database and Desktop File
  - Desktop Folder
- New Trash model
  - Persistant trash
  - Trash folder on each volume

Dropping Documents on Applications

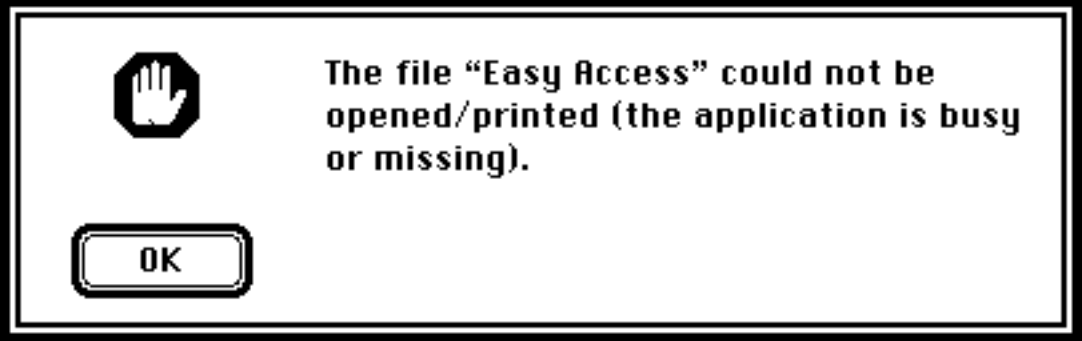
- Improved from shift-select open method
- Useful for opening docs from other creators
- Application doesn't highlight if it can't open a document
- FREFs determine what icons can be dropped on apps

Special FREFs

- '****' wildcard type allowing any files
- 'fold' allows folders to be dropped
- 'disk' allows disks to be dropped

Other Items

- Documents can say why they can't be opened
- International Scripts



FinderEvents

- First example of AppleEvent-aware application
- Exports Finder services to other applications
- Enables record and playback of commands

FinderEvents

- Select
- New Folder
- GetInfo
- Alias
- CopyDisk
- Find
- Open
- Close
- Cleanup
- Eject
- Drag
- Duplicate

FinderEvents - Properties

- ObjectCount
- Where
- Size
- ModificationDate
- Comment
- FreeSpace
- Kind
- Pathname
- CreationDate
- Locked
- Access Priveleges
- Creator

FinderEvents Demo

Q&A