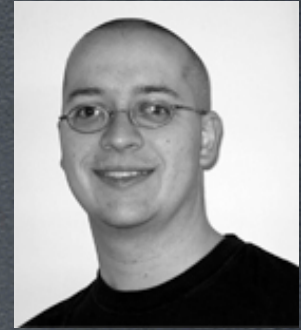# AppleScript
For Digital Photographers

Benjamin S. Waldie
President, Automated Workflows, LLC

About Me

- President, Automated Workflows, LLC

- Author, SpiderWorks, LLC

- Columnist, MacTech Magazine, X-Ray Magazine

- Contributor, MacScripter.net

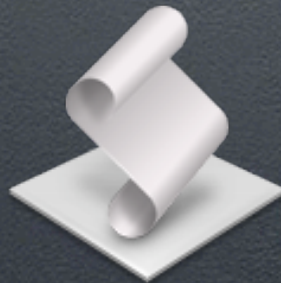- President, Philly Area AppleScript UG

Presentation Overview

- Introduction to AppleScript

- Discussion about AppleScript for digital photographers

- AppleScript demos

- Introduction to Automator

- Automator demos

- Resources and next steps

AppleScript

What is AppleScript?

- Built into Mac OS X

- Used to control existing applications

- Automates time consuming and repetitive tasks

Scriptable Applications

- Applications must support AppleScript

- Level of AppleScript support may vary from application to application

- Terminology may change between versions

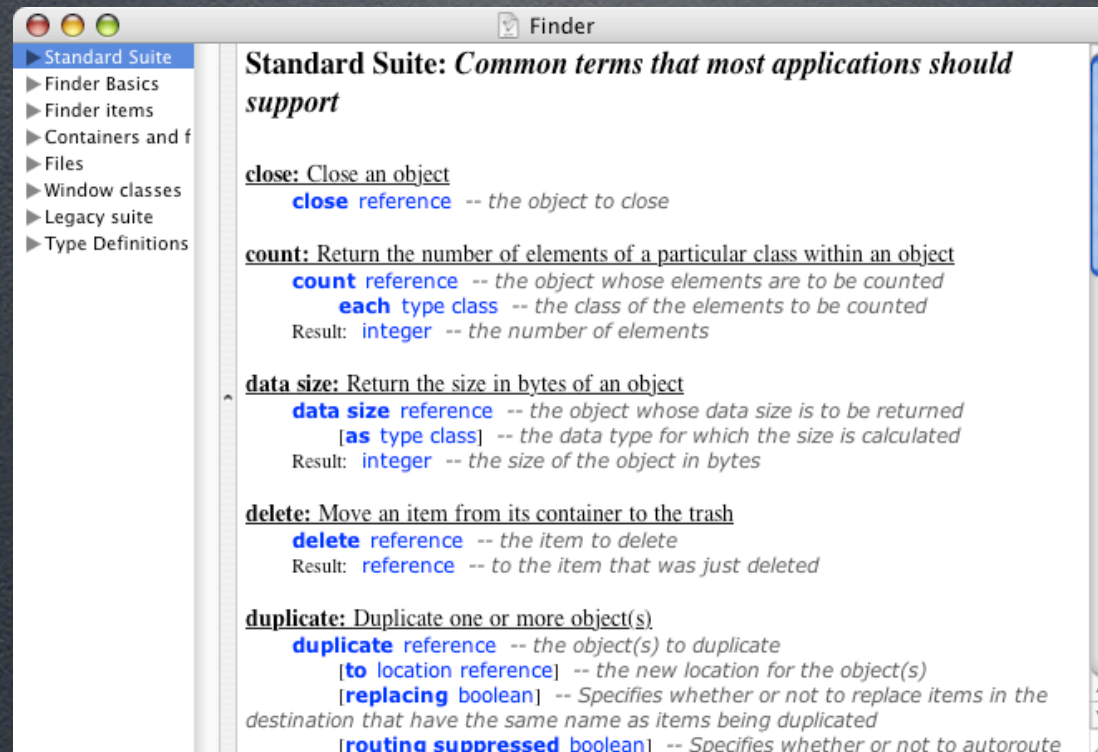- Scriptable applications include an AppleScript dictionary

Viewing Application Dictionaries

- Launch Script Editor

- Select "Open Dictionary" from "File" menu

- Locate and select desired application

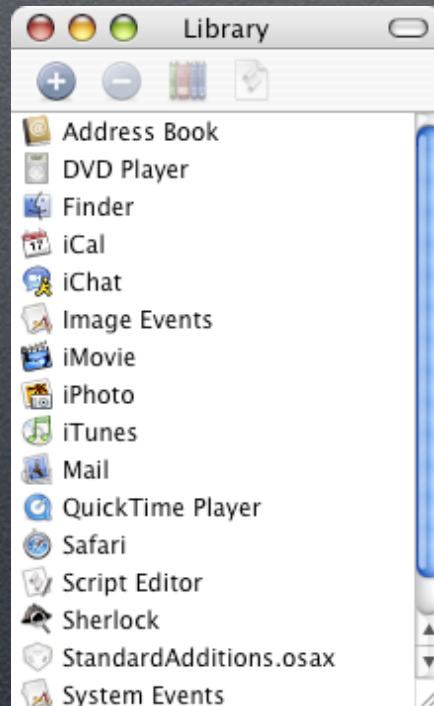- Library palette provides quick dictionary access for commonly used applications

Viewing Application Dictionaries

Finder Dictionary Window

Viewing Application Dictionaries

Library Palette

AppleScript and Digital Photography

Issues to Overcome with Digital Photography

- Thousands of images

- Lots and lots and lots of repetitive work!

- Lots of time consuming tasks

- Less time for creativity

Primary Areas of Consideration for Automation

- Organization of images
  - Naming images
  - Locating and storing images

- Manipulating images
  - Resizing
  - Adding captions, keywords, copyright info, etc.
  - Converting to different types of images

- Uploading images

Tips for Organization of Images

- Naming images
  - Come up with a good naming convention
  - Try to keep names unique
  - Consider including the date
  - Consider including a category or other identifier
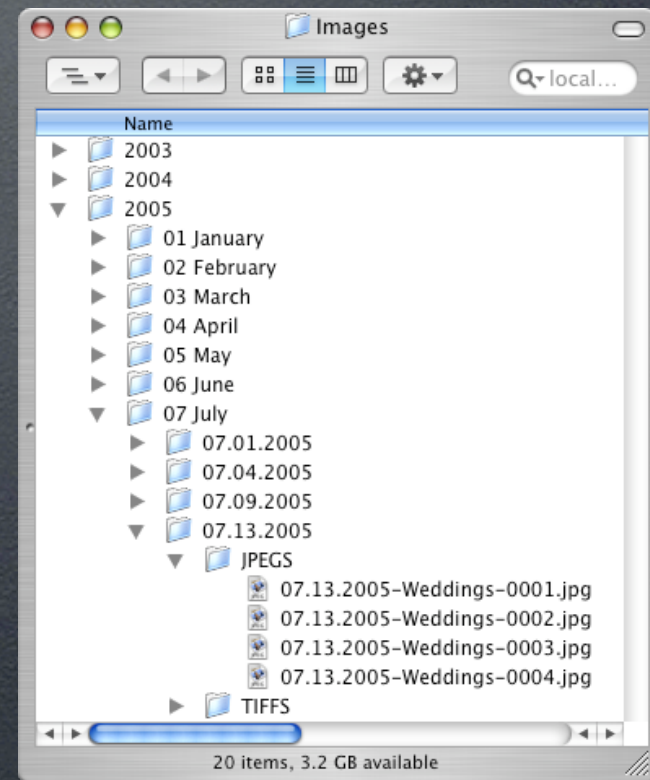 - Display the file extension

```
07.13.2005-WED-0001.jpg
07.13.2005-WED-0002.jpg
```

Tips for Organization of Images

- Storing images
  - Create a folder structure that makes sense
  - Consider splitting folders by date, type, and possibly category
  - Consider an image catalog

AppleScriptable
Image Catalogs

- iPhoto

- Extensis Portfolio

- iView MediaPro

- Canto Cumulus (limited)

Manipulating Images

- Consider having AppleScripts trigger Photoshop Actions

- Batch process whenever possible

AppleScripting Image Manipulation and Conversion

- Adobe Photoshop

- Graphic Converter

- iMagine Photo

- Image Events

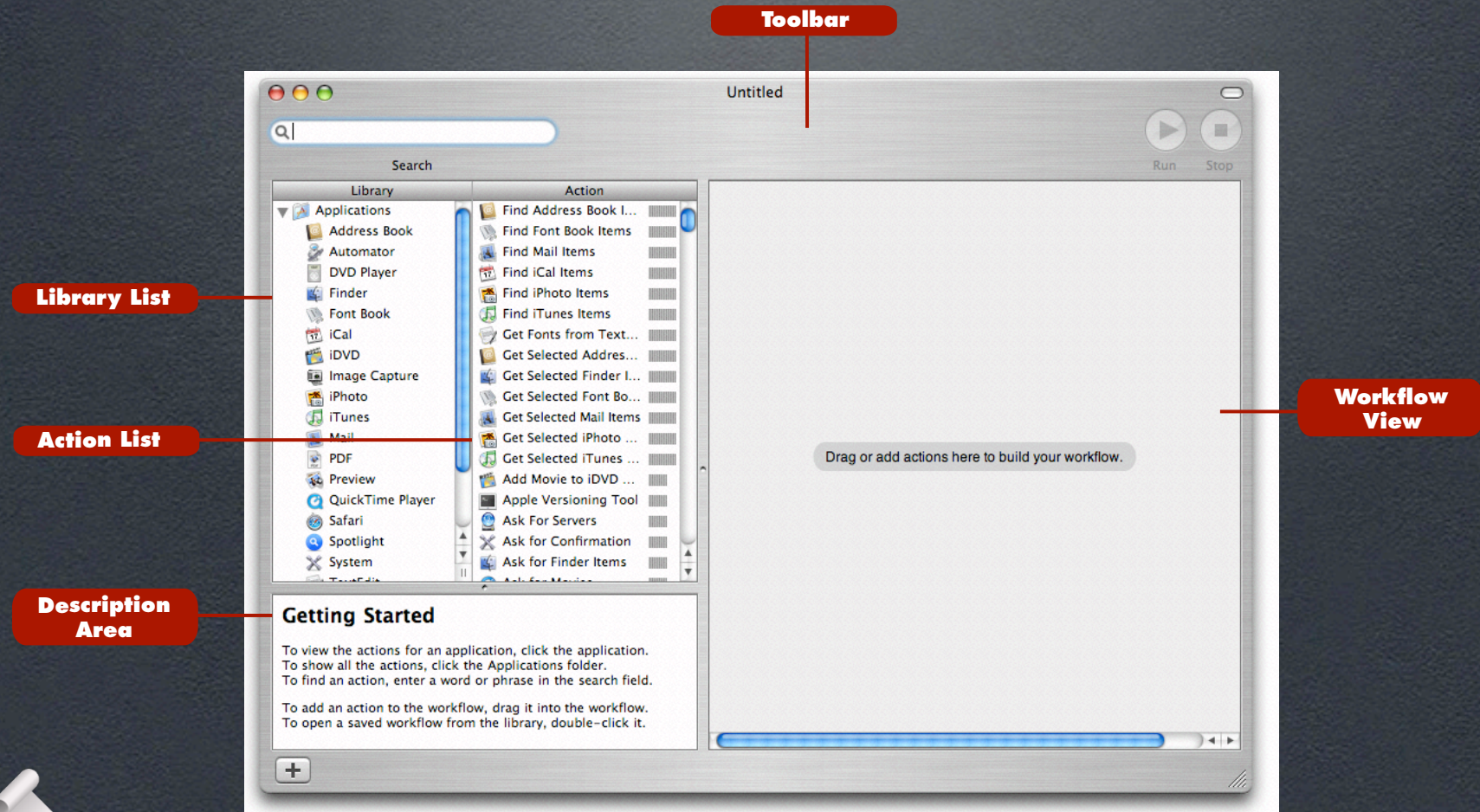# AppleScript Demos

Automator

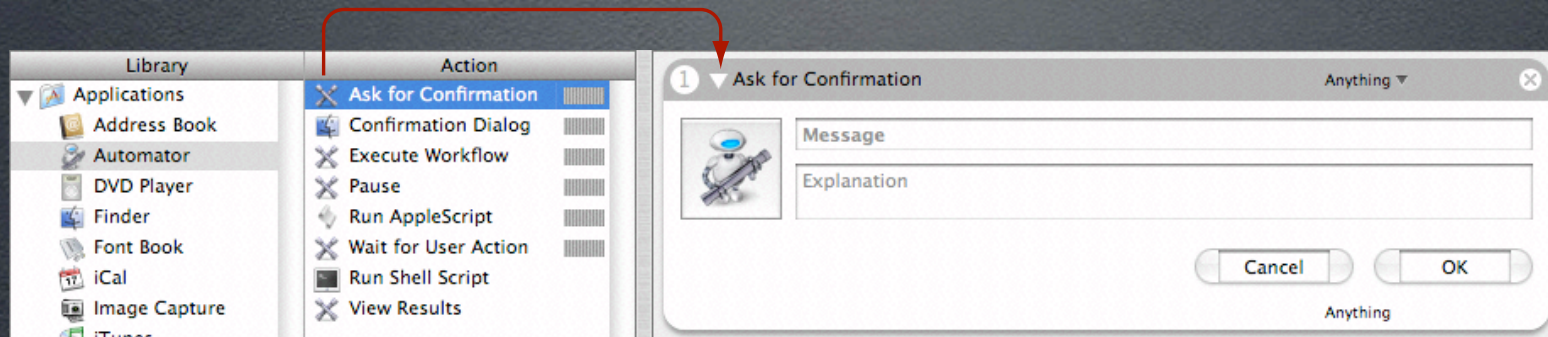HELLO.
I'M OTTO.

What is Automator?

- New with Mac OS X 10.4 (Tiger)

- Brings the power of workflow automation to the **USER** level!

- Users create workflows, using pre-built actions

- No programming required!

Automator's Interface

Toolbar

Untitled

Search

Library List

Library
- Applications
  - Address Book
  - Automator
  - DVD Player
  - Finder
  - Font Book
  - iCal
  - iDVD
  - Image Capture
  - iPhoto
  - iTunes
  - Mail
  - PDF
  - Preview
  - QuickTime Player
  - Safari
  - Spotlight
  - System
  - TextEdit

Action List

Action
- Find Address Book I...
- Find Font Book Items
- Find Mail Items
- Find iCal Items
- Find iPhoto Items
- Find iTunes Items
- Get Fonts from Text...
- Get Selected Addres...
- Get Selected Finder I...
- Get Selected Font Bo...
- Get Selected Mail Items
- Get Selected iPhoto ...
- Get Selected iTunes ...
- Add Movie to iDVD ...
- Apple Versioning Tool
- Ask For Servers
- Ask for Confirmation
- Ask for Finder Items
- Ask for Movies

Workflow View

Drag or add actions here to build your workflow.

Description Area

Getting Started

To view the actions for an application, click the application.
To show all the actions, click the Applications folder.
To find an action, enter a word or phrase in the search field.

To add an action to the workflow, drag it into the workflow.
To open a saved workflow from the library, double-click it.

Run   Stop

Building a Workflow

- Each action is responsible for a single task

- Drag actions into workflow view to create a complete workflow

- Workflows may be saved as applications, iCal alarms, folder actions, and more!

What Can Automator Do?

- PDF contact sheet creation

- Generate emails

- File and folder renaming

- Resize images

- Much more!

Apple Applications with Automator Actions

- iDVD
- iPhoto 5
- iTunes 4.8
- Keynote 2
- SoundTrack Pro
- Xcode 2

Third Party Applications with Automator Actions

- BBEdit
- Graphic Converter
- NetNewsWire
- OmniOutliner
- Phlink
- Transmit

Third Party Developer Actions

- GarageBand
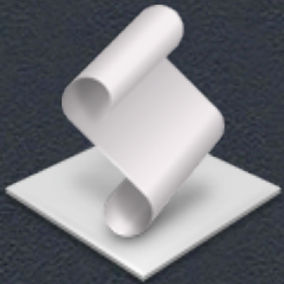- InDesign
- iTunes
- Photoshop
- QuarkXPress
- UNIX

Demos

Resources

Example Scripts

- Example Scripts From This Session
  - http://www.automatedworkflows.com/
    presentations.html

AppleScript Web Sites

- Apple's AppleScript Web Site
  - http://www.apple.com/applescript

- MacScripter.net
  - http://macscripter.net

Automator Web Sites

- Apple's Automator Web Site
  - http://www.apple.com/automator/

- Sal's Automator Web Site
  - http://automator.us

- MacScripter.net's Automator Actions
  - http://www.automatoractions.com

- Automator World
  - http://www.automatorworld.com

Mailing Lists/Forums

- Apple's Mailing Lists - AppleScript, Automator, and more!
  - http://lists.apple.com

- Adobe Scripting Forum
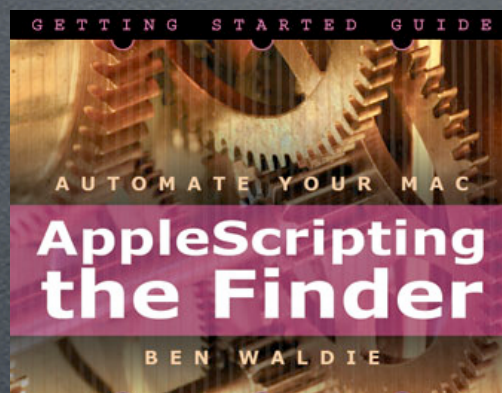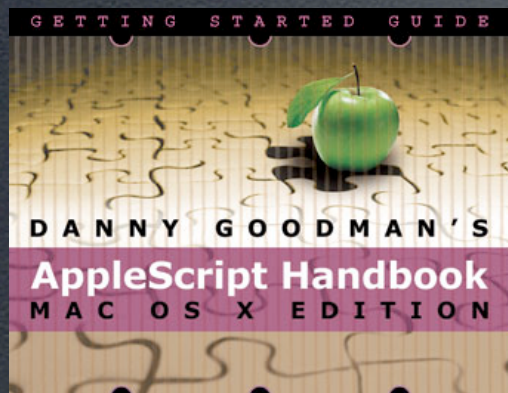 - http://www.adobe.com/support/forums/

Documentation

- Check Application Documentation!

- Using Automator
  - Apple's Automator Web Site
  - Automator.us

- Apple Developer Documentation
  - Available Online through ADC
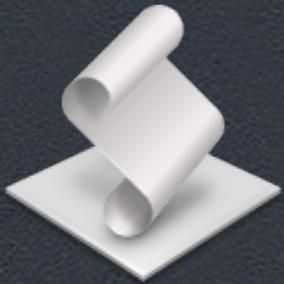 - Installed through Xcode Developer Tools

Books
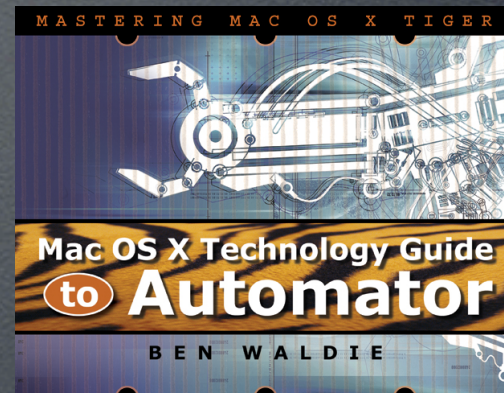
SpiderWorks, LLC

- "Danny Goodman's AppleScript Handbook"
- "AppleScripting the Finder" and "Mac OS X
  Technology Guide to Automator", by Yours Truly

http://www.spiderworks.com

Q & A

(Please fill out your evaluation form)

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