

Welcome

To Advance through Presentation  
Use Page Up and Page Down Keys



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# AppleScript: How We Won the Eddy

Jason Yeo

AppleScript  
Technology Manager



# AppleScript: How We Won the Eddy

Chris Espinosa

Manager, Components  
and Scripting

# What's in this Hour

- Recap of Versions 1.3 through 1.3.7
- Scriptability in the Mac OS
- New Scriptable Applications
- Pointers to other sessions

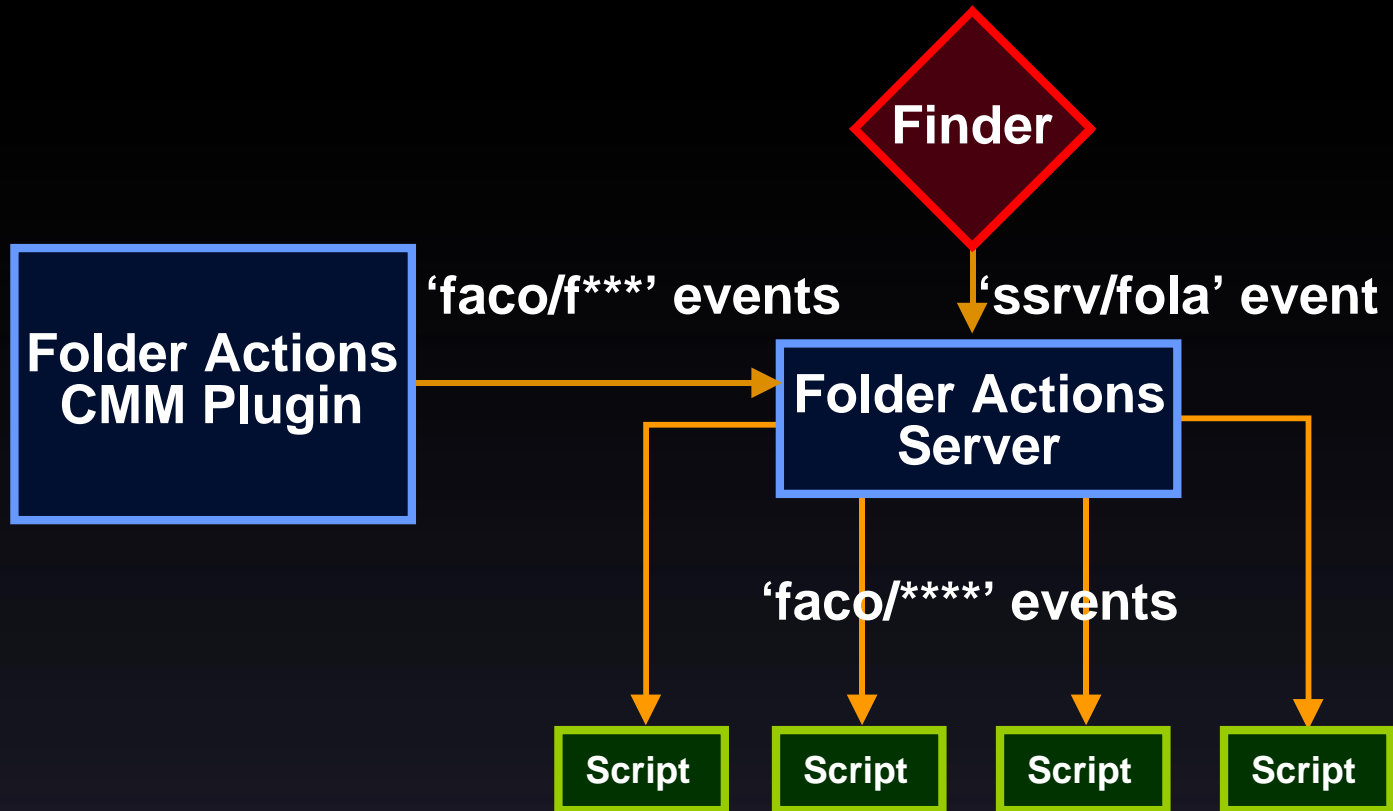


# New in Mac OS 8.5

- We're native!
- Folder Actions
- New scripting additions
- New built-in suites
- Unit coercions
- Unicode support



# Folder Actions



# New Scripting Additions

- **delay**
- **say**
- **summarize**
- **the clipboard, set clipboard to**
- **mount volume**
- **choose from list**





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# Demo



# Internet Suite

- Built-in URL type and coercion
- Definitions of web page and FTP site
- Web\*STAR CGI Interface definition



# Internet Suite

**open location:** Opens a URL with the appropriate program (your favorite browser)

- **open location string**—the URL to open
  - **[error reporting Boolean]**—should error conditions be reported in a dialog?



# Internet Suite

**Class URL:** A Universal Resource Locator or Universal Resource ID (URI)

- Plural form: **URLs**
- Properties
  - **properties record**—property that allows getting and setting of multiple properties
  - **name string** [r/o]—a name given to this URL, usually the name of the page it refers to
  - **scheme** http URL/secure http URL/ftp URL/mail URL... [r/o]—the access scheme
  - **host** internet address [r/o]—the host specified by this URL



# Internet Suite

## Class URL

- Properties
  - **path string** [r/o]—the location of the target
  - **user name string** [r/o]—the user name by which to access this URL
  - **password string** [r/o]—the password by which to access this URL



# Internet Suite

**Handle CGI request:** Sent to a script to process a Common Gateway Interface request

- **Handle CGI request string**—the path of the URL
  - [**searching for string**]—the data for the GET method or data after the ‘?’ in a POST method
  - [**with posted data string**]—the POST arguments
  - [**of content type string**]—the MIME content type of POST argument



# Connectivity Suite

- Defined types for many connectivity mechanisms
- Initially used in Desktop Printer Manager
- Use these types!



# Internet Suite

**Class address specification:** Unique designation of a device or service connected to this computer

- Properties

- **properties record**—property that allows getting and setting of multiple properties
- **conduit** printer port/modem port/SCSI/USB/infrared—how the addressee is physically connected
- **protocol** serial/AppleTalk/IP/SCSI/USB/custom/spool file/translator/unknown—how to talk to this addressee



# Unit Coercions

- Lots of built-in units
- Conversions through the coercion mechanism
- You can extend it yourself
- Go to the **Extending AppleScript** session for details





# Other Coercions

- Pascal and C strings



# Unicode Text Support

- New type **typeUnicodeText**
- Coercions to and from **typeChar**, **typeStyledText**, and **typeInternationalText**
- No imaging yet



# Bug Fix Highlights

- Many memory leaks plugged
- Crash when displaying large lists or strings
- Crash on **characters 1 through -2 of x**
- Better target alias management
- High-ASCII text item delimiters
- Info for returned bogus object
- Run script and store script leaks, crashes



# Mac OS 8.5 Scriptability

- Finder reorganization
- Major changes to suites
- Folder Actions
- Network Setup Scripting
- Desktop Printer Manager



# New AppleScript SDK

- Release notes, change histories, bug fixes
- Details of terminology changes
- Complete terminology database from Mac OS 8.5
- Complete folder actions server source
- Sample code





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# SDK Tour

# New in Mac OS 8.6

- Navigation services
- Native scripting addition mechanism
- **typeFSS** to **typeAlias** coercion
- Constants to strings (e.g., month and day names)



# Native OSAX Mechanism

- Build scripting as shared library
- Provide initialization function that registers handlers
- Provide Termination function to remove handlers
- Go to the [Extending AppleScript](#) session for details





# Mac OS 8.6 Scriptability

- Macintosh Runtime for Java
- URL access





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# Demo

# Bug Fixes

- Even more memory leaks plugged
- Droplets snarfed processor time
- Purged reentrant OSAXen fixed
- **mount volume** IP support strengthened



# New App Scriptability

- Main Event PhotoScripter
- Diamondsoft Font Reserve
- Microsoft Outlook Express
- AEC FastTrack Scheduler
- Totally Hip Live Stage
- Uni Software Voodoo
- Bare Bones MailSmith





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# Demo

Adobe *in*Design

# Version Numbers?

- ~~1.3~~ Intended for Mac OS 8.5
- ~~1.3.1~~ Bad build
- 1.3.2 Fix shipped in Mac OS 8.5
- 1.3.3 Only for Blue Box in OS X Server
- 1.3.4 Fix shipped in Mac OS 8.5.1
- ~~1.3.5~~ Intended for Mac OS 8.6
- ~~1.3.6~~ Partial fix, did not ship
- 1.3.7 Fix shipped in Mac OS 8.6



# Upcoming AppleScript

- One feature set for both Mac OS 8 and Mac OS X
- Finally—the Using clause!
- Finally—Apple events over IP support!
- More bug fixes
- Details in the next session in Hall B



# Roadmap

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## **AppleScript, Mac OS X, and Carbon**

For futures

Hall C  
**Wed., 10:00am**

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## **The Apple Event Model and Your Application**

To get started with AppleScript

Hall C  
**Thur., 9:00am**

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## **Extending AppleScript**

For the new Standard Additions  
mechanism and Folder Actions

Hall B  
**Thur., 1:00pm**





# Roadmap (Cont.)

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## **AppleScript Feedback Forum**

For interactive feedback  
and discussion with the team

Hall C  
**Thur., 4:00pm**

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## **AppleScript Birds of a Feather**

For community-building  
with other developers

Hall C  
**Thur., 5:30pm**



# AppleScript Kitchens

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## **London, U.K.:**

June 15–17, 1999

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## **Cupertino, CA:**

August 17–19, 1999

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## **For more information:**

Email Jason Yeo at [jason@apple.com](mailto:jason@apple.com)





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Q&A



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