

OS X Automation Update

What's New in Automation

Session 417

Sal Soghoian

Product Manager Automation Technologies

Chris Nebel

Senior Automation Engineer

These are confidential sessions—please refrain from streaming, blogging, or taking pictures

What You Will Learn

What's new in Automation?

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- AppleScript and Automator

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 - Dramatic new features

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 - New OS X Integration

What You Will Learn

What's new in Automation?

- AppleScript and Automator
 - Dramatic new features
 - Multicomputer file access
 - Security transparency
 - New OS X Integration
 - Getting your computer to pay attention

iCloud Support

Documents in the Cloud





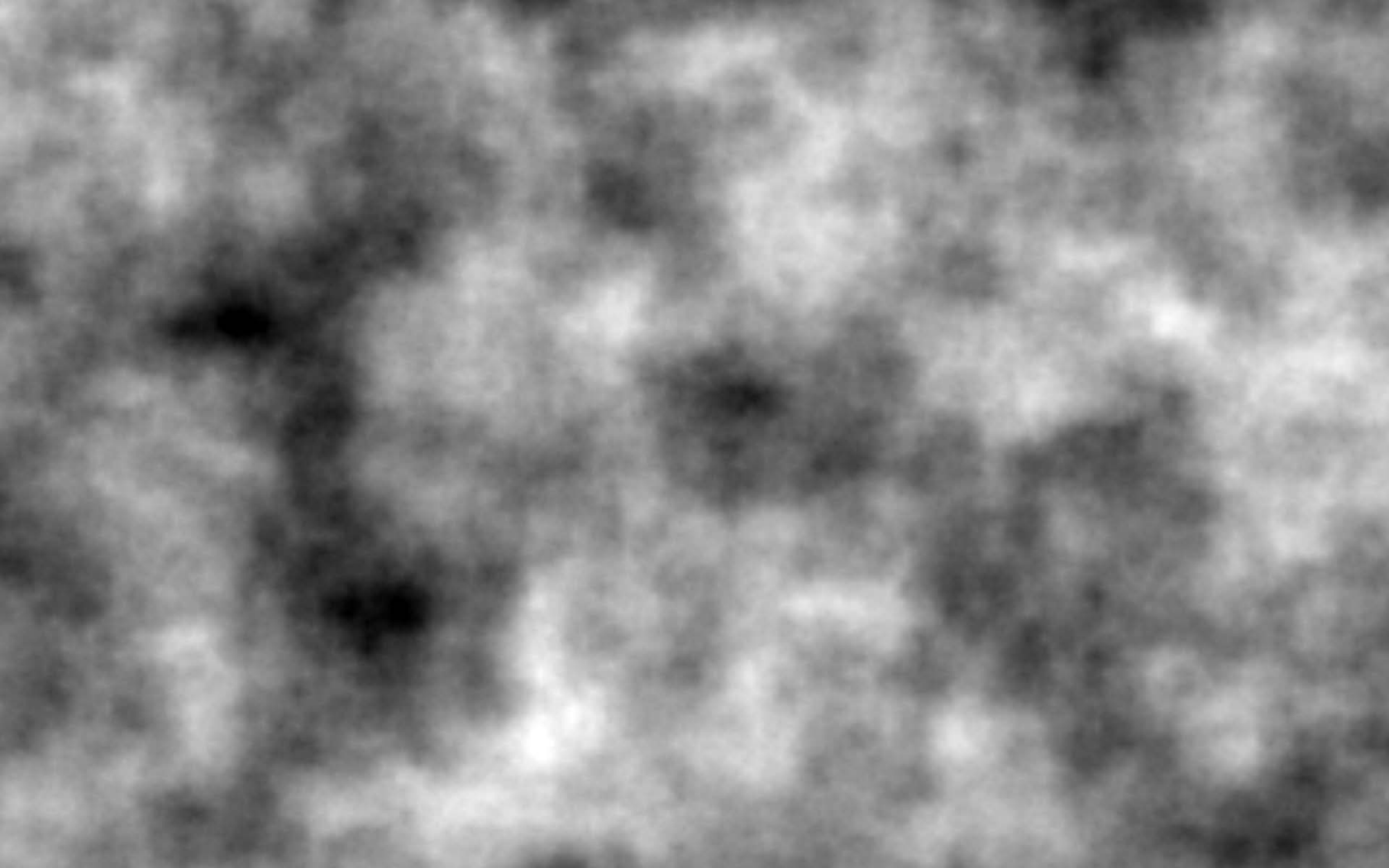


iCloud













 iCloud

On My Mac

AppleScript Editor





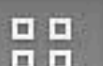
iCloud for AppleScript Editor

You can move your existing documents to iCloud by dragging them here from the Finder or other apps.

[Learn More About iCloud](#) ➔

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 iCloud

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AppleScript Editor





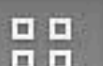
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Photo Prep Droplet





Photo Prep Droplet











Search: All iCloud On My Mac

utilities

FileNames
Name matches: utilities



AppleSc...Utilities
Mar 10, 2011

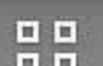


AppleSc...Utilities
May 17, 2013



AppleSc...Utilities
Mar 10, 2011

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AppleScript Editor

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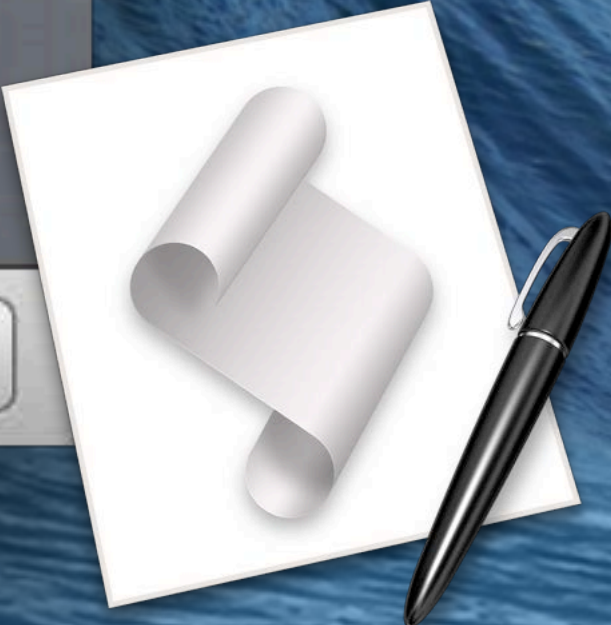
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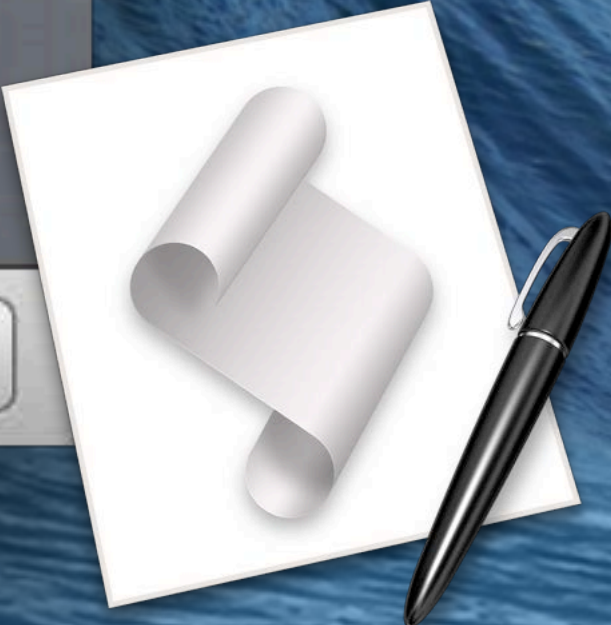
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 AppleScript Libraries	--	18 KB
 AppleScript Number Utilities	March 10, 2011 12:00 AM	409 bytes
 AppleScript Text Utilities	May 17, 2013 12:09 PM	11 KB
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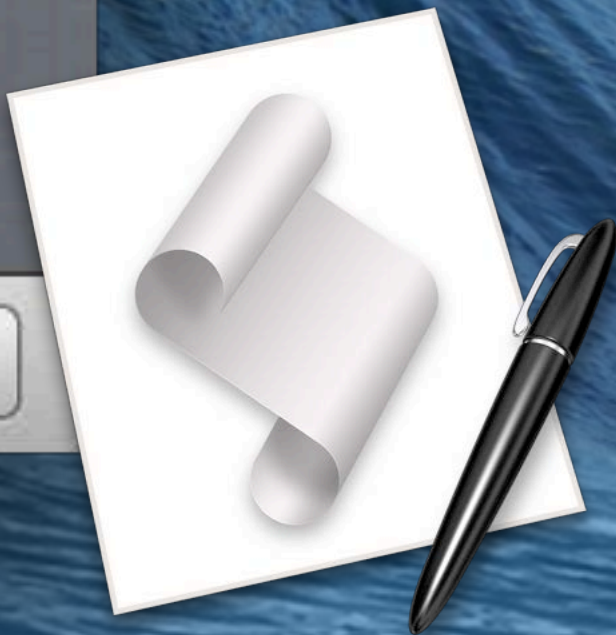
AppleScript Editor

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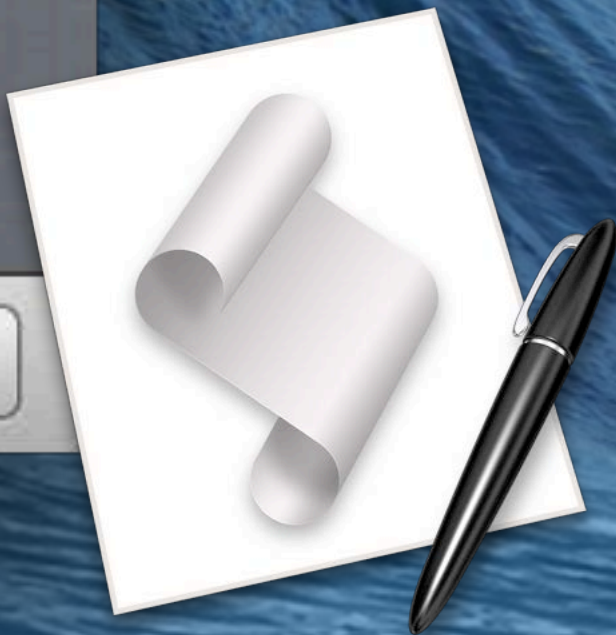
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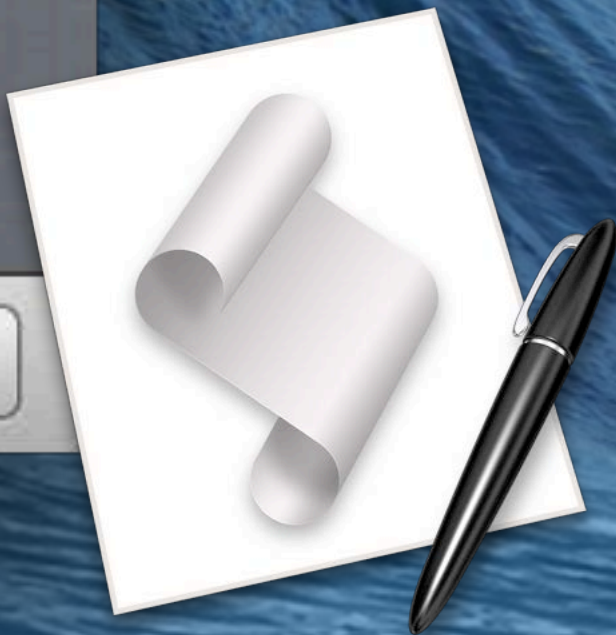
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iCloud

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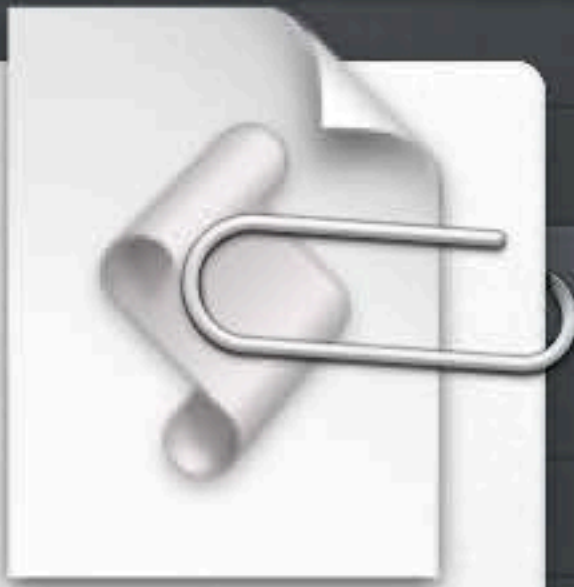


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Mr.'s Mac mini



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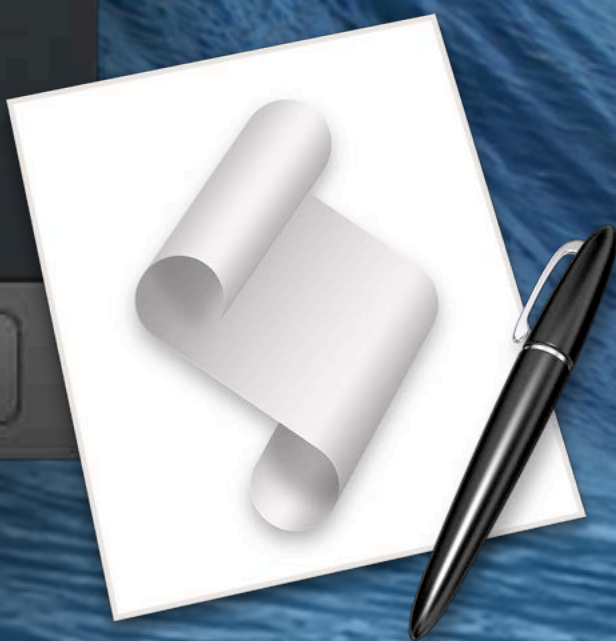






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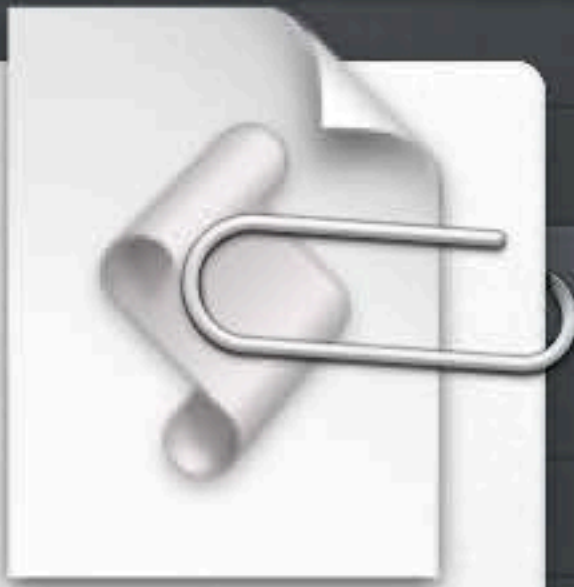


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Mr.'s Mac mini



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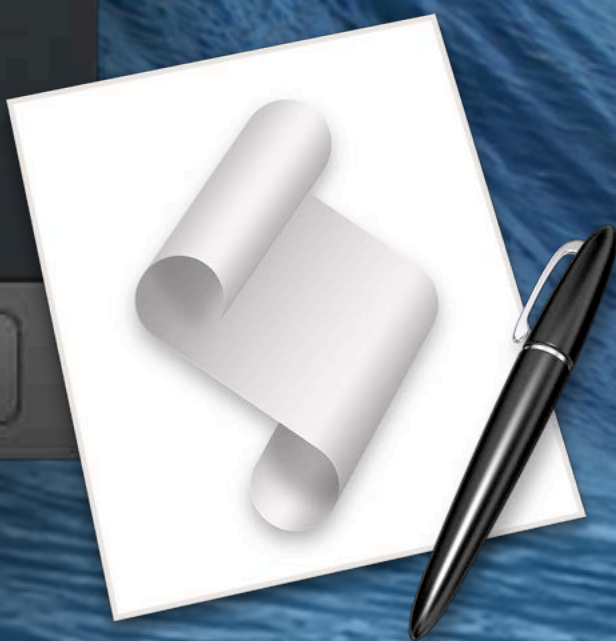






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Mr.'s Mac mini

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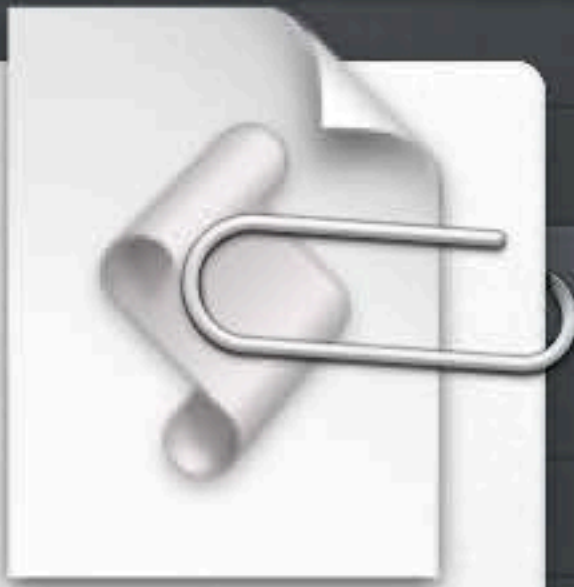


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Mr.'s Mac mini



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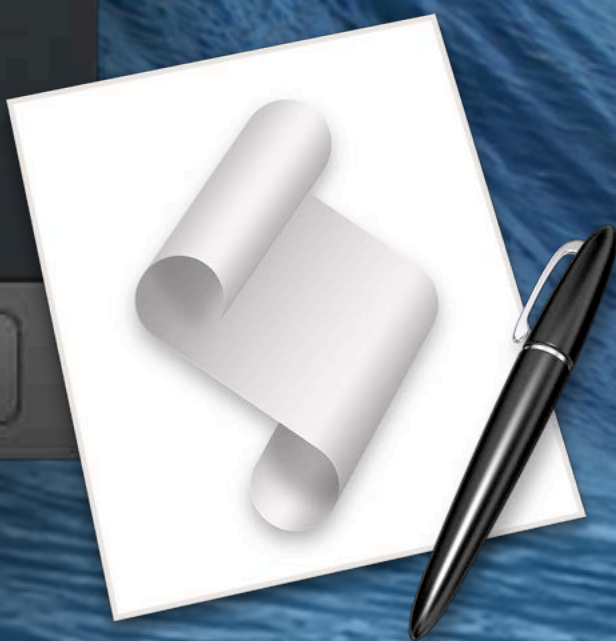






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Mr.'s Mac mini

Share

Sending "AppleScript Text Utilities" with AirDrop

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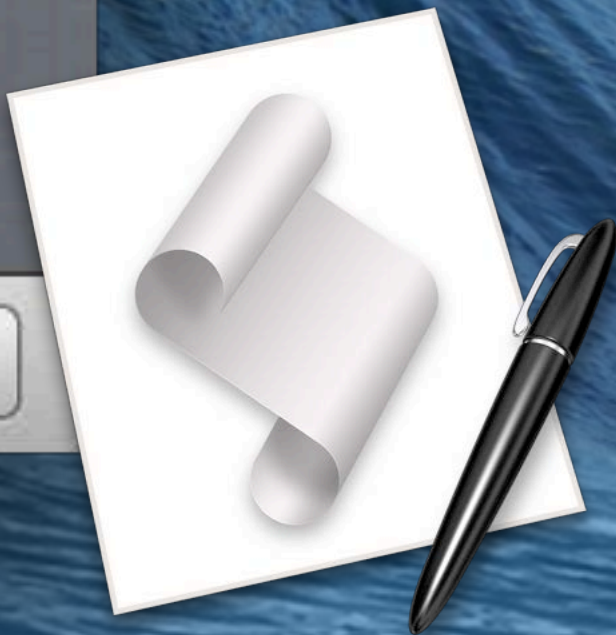
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 iCloud

On My Mac

Automator





iCloud for Automator

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[Learn More About iCloud](#) 

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Done





iCloud Support

Documents in the Cloud

- Automator and AppleScript Editor
- Organize script, workflow, and service collections
- Search cloud and local collections by tags
- Distribute items across computers

iCloud Support

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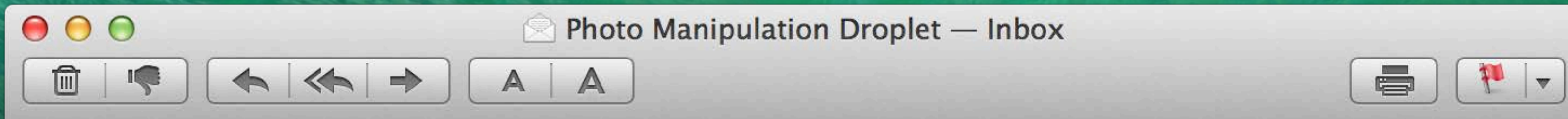
Documents in the Cloud



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Automation Applets and Security

Identifying Applets and Droplets



Bay Area Forest Scouts 
To: JohnnyAppleseed@icloud.com
Photo Manipulation Droplet

June 1, 2013 7:09 PM
[Details](#)



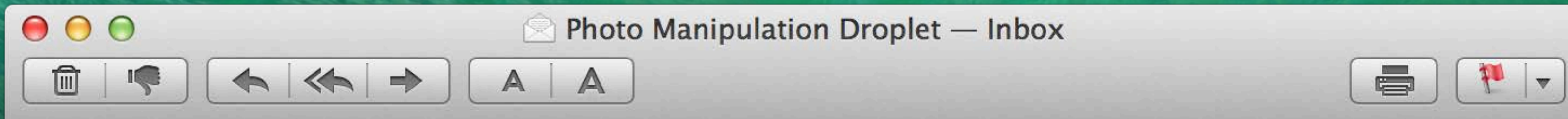
PHOTO MANIPULATION DROPLET

It was great to see you at the Forest-Eco-Conference this year. Your session was very inspiring and contained some really useful examples.

Can you send me a copy of the photo manipulation droplet you demonstrated? It will really save me time preparing my trip images for sharing with the Forest Scouts!

Trudy Anchover





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To: JohnnyAppleseed@icloud.com
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Trudy Anchover



Photo Manipulation Droplet — Inbox

Photo Droplet

A

To: Trudy Anchover

Cc:

Bcc:

Subject: Photo Droplet

☰

From: Sal Soghoian...Signature: None

Here you go!

June 1, 2013 7:09 PM

Details

scouts

ORG

r. Your session was very

u demonstrated? It will really

orest Scouts!

Trudy Anchover



Photo Manipulation Droplet — Inbox

Photo Droplet

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☰ ▼ From: Sal Soghoian... Signature: None

Here you go!

June 1, 2013 7:09 PM

Details

scouts

ORG

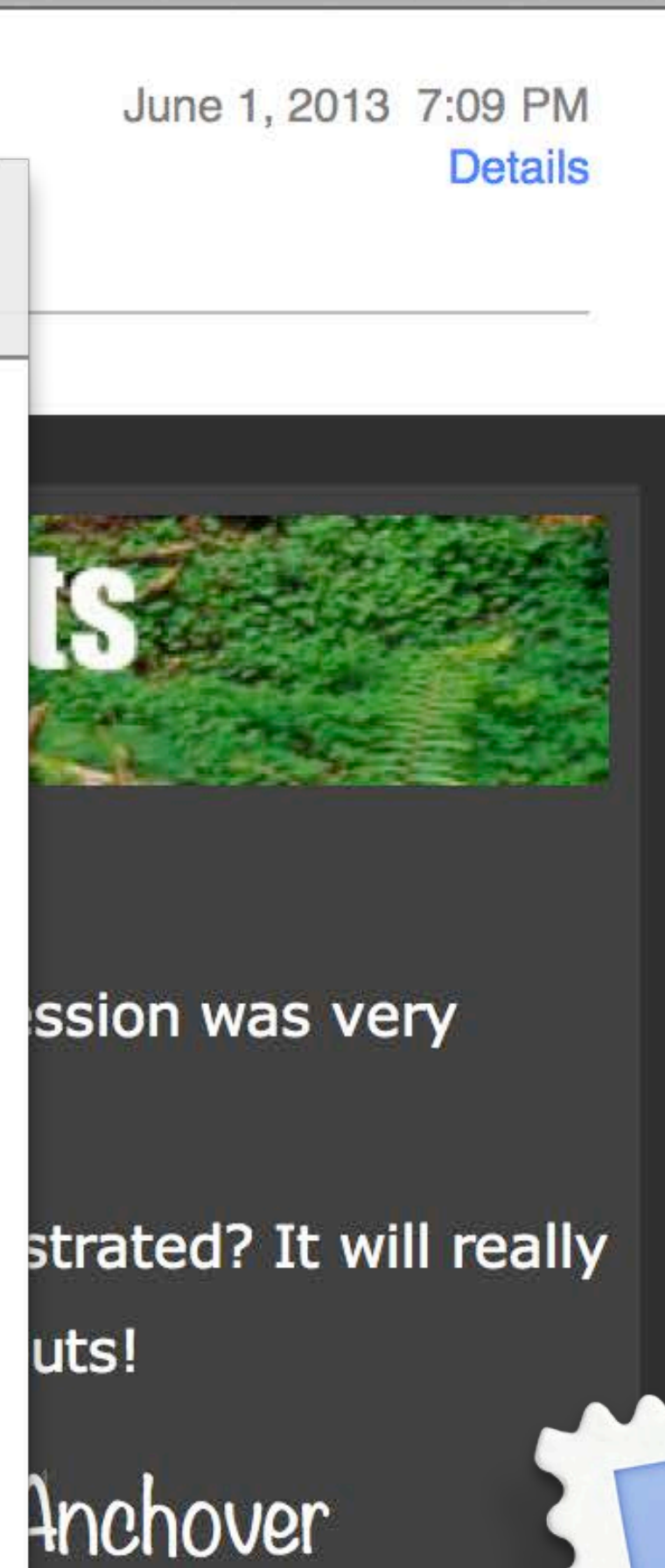
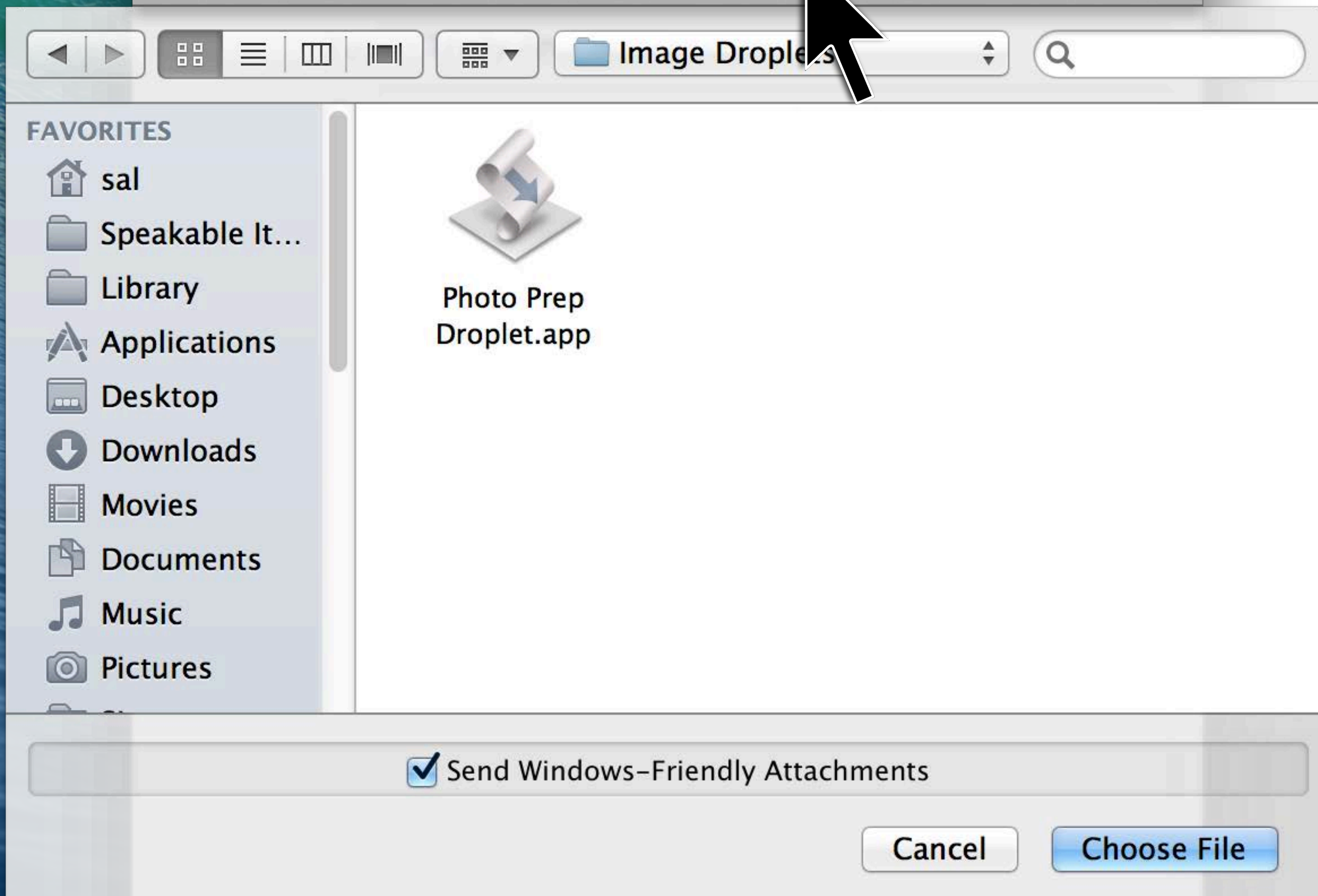
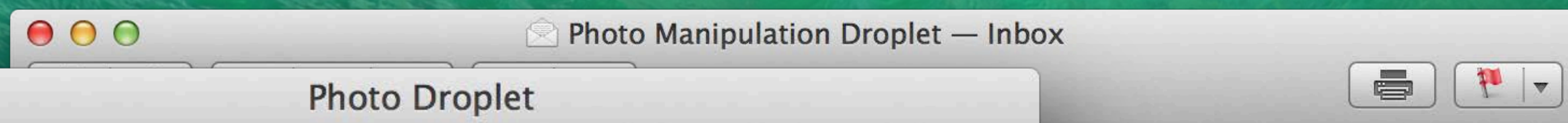
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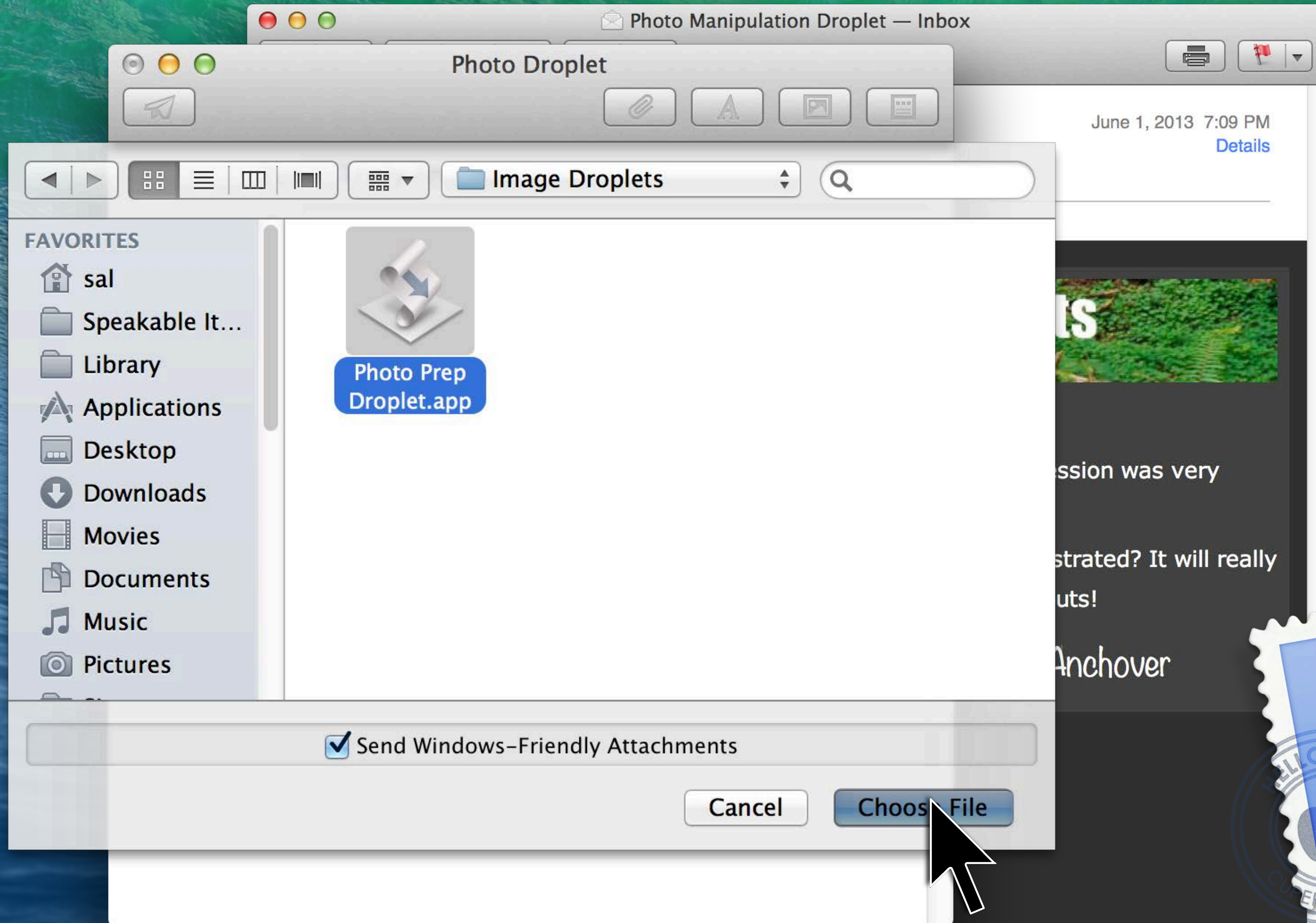


Photo Manipulation Droplet — Inbox

Photo Droplet

✉️

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A

🖼️

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To: Trudy Anchover

Cc:

Bcc:

Subject: Photo Droplet

☰ ▼ From: Sal Soghoian... Signature: None ⬆ ⬆

Here you go!

📎

[Photo Prep...et.app \(57 KB\)](#)

|

June 1, 2013 7:09 PM

Details

scouts

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Photo Manipulation Droplet — Inbox

Photo Droplet

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To: Trudy Anchover

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Here you go!


[Photo Prep...et.app \(57 KB\)](#)

|

June 1, 2013 7:09 PM

Details

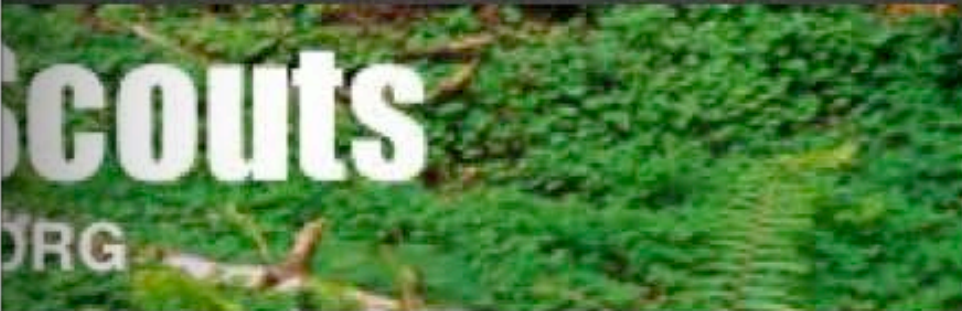

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Trudy Anchover





Photo Manipulation Droplet — Inbox

Bay Area Forest Scouts

To: JohnnyAppleseed@icloud.com

Photo Manipulation Droplet

June 1, 2013 7:09 PM

[Details](#)



Bay Area Forest Scouts

BAYAREAFORESTSCOUTS.ORG

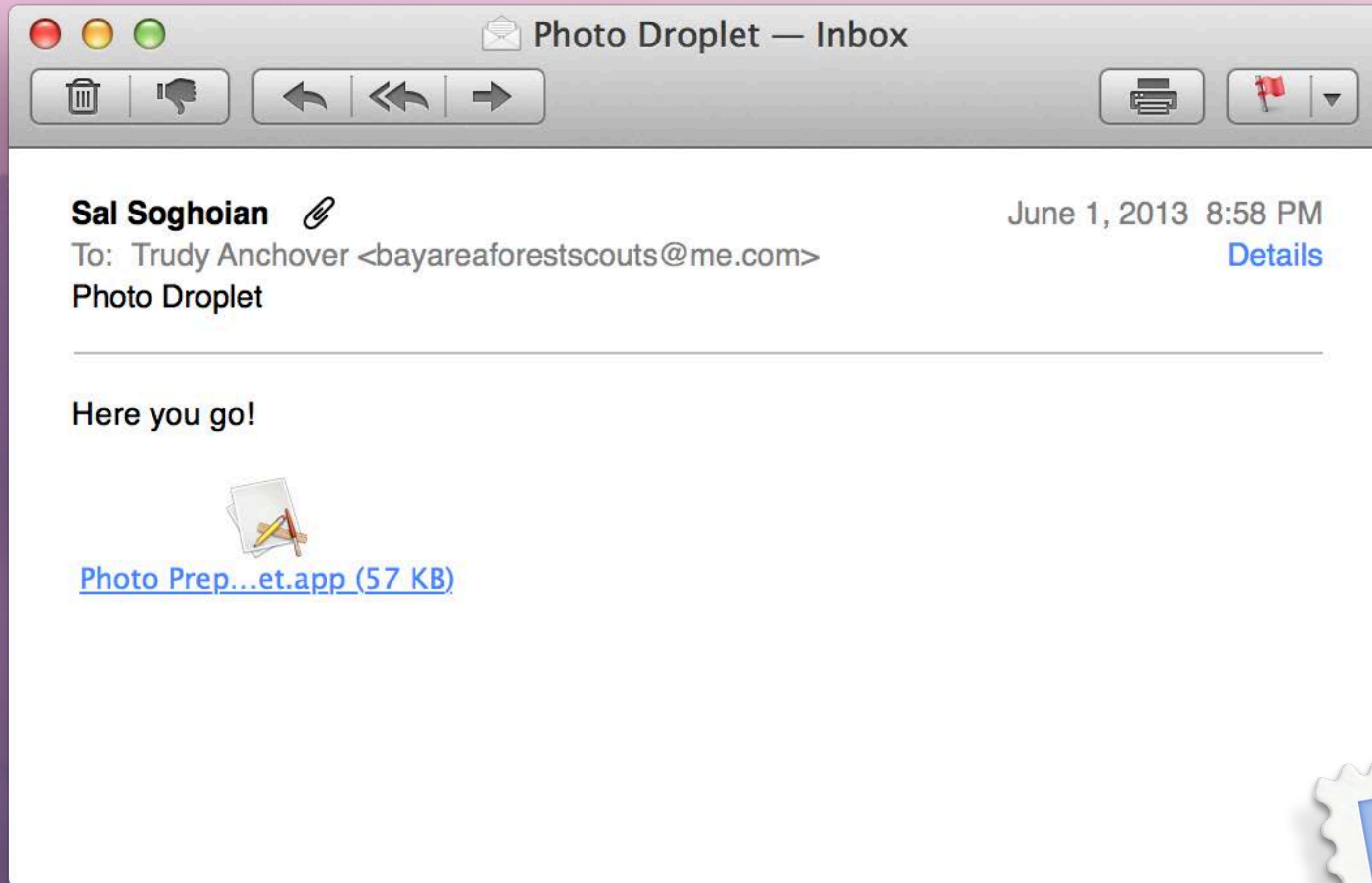
PHOTO MANIPULATION DROPLET

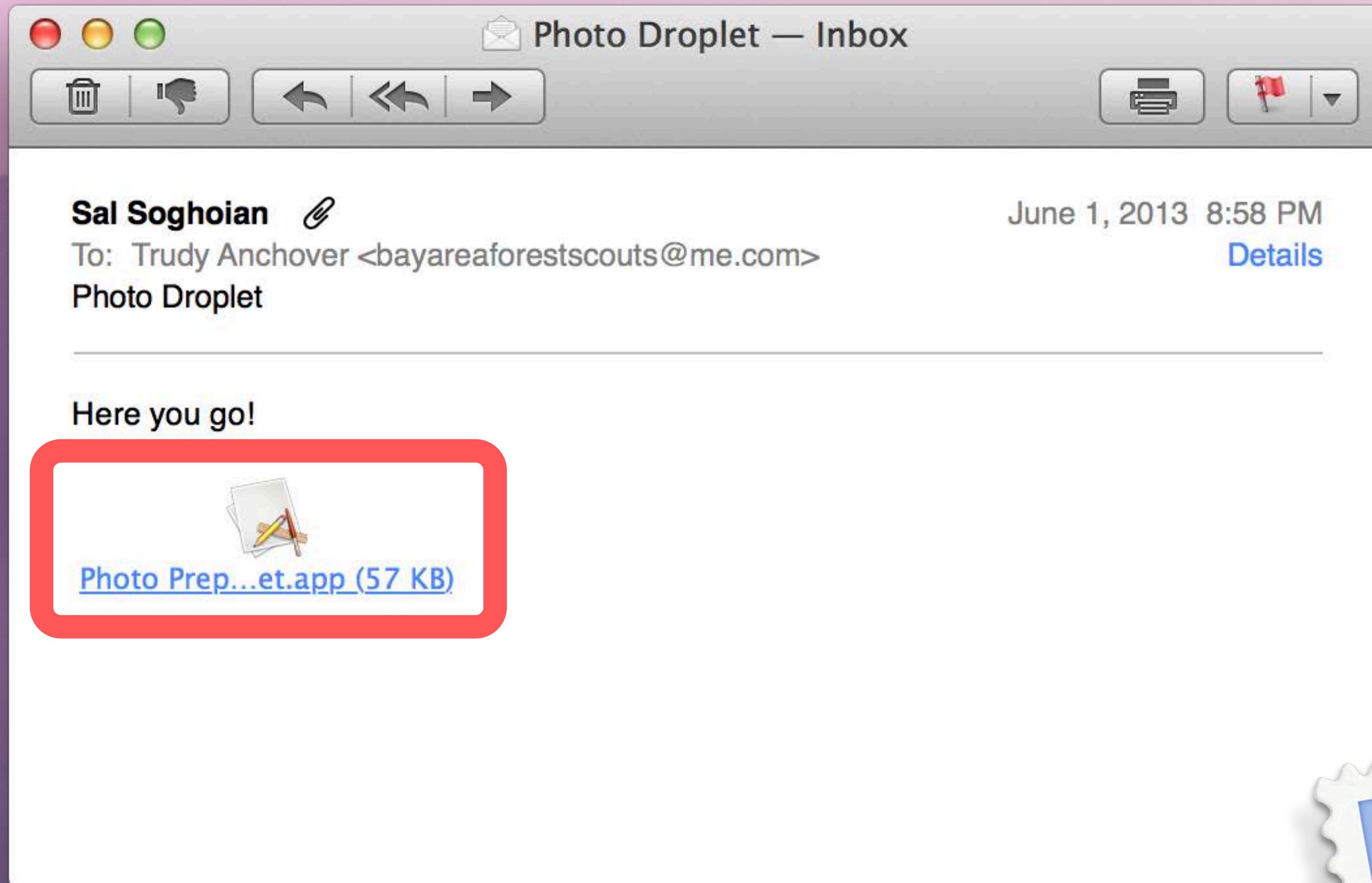
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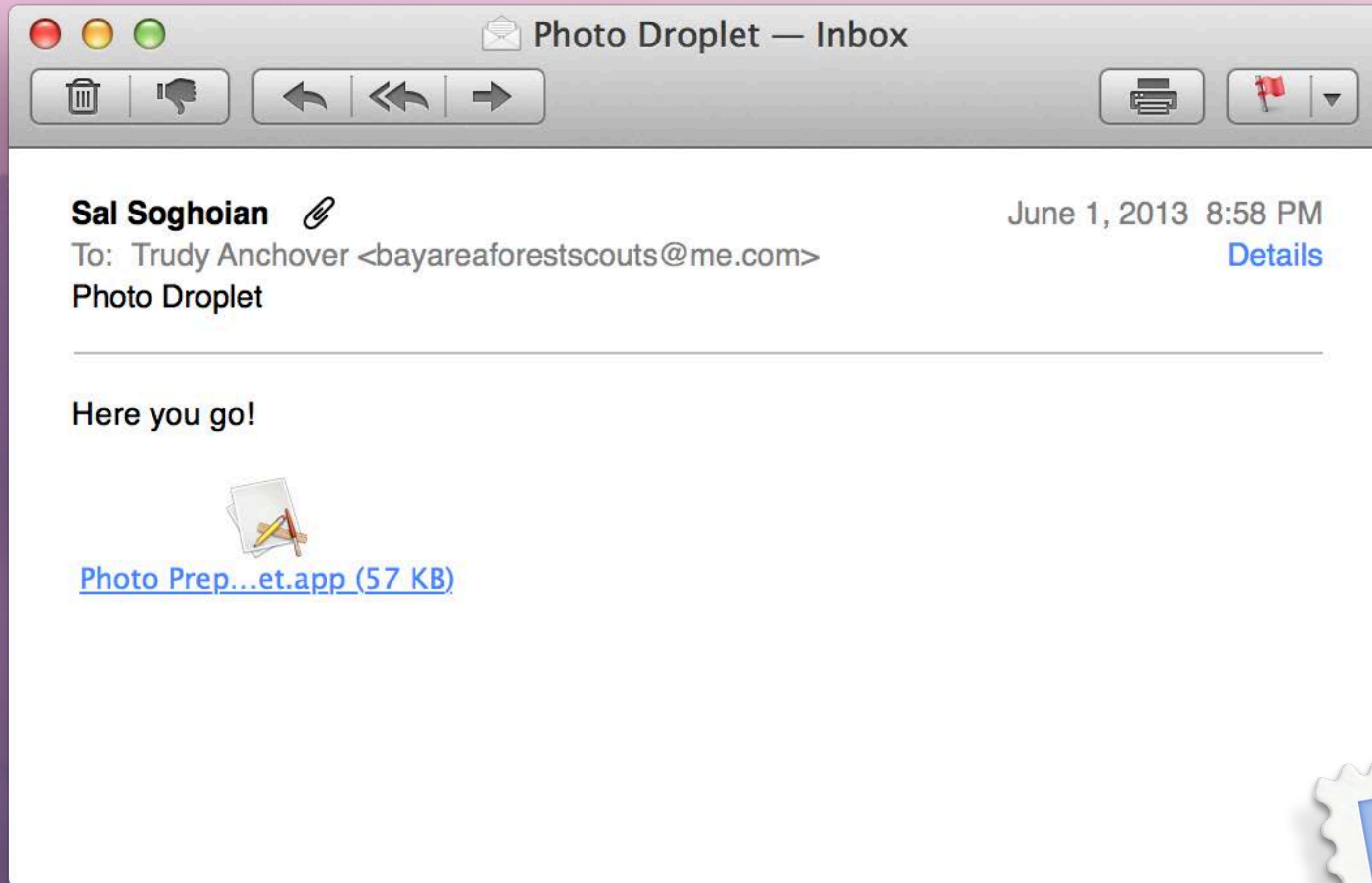




Photo Prep Droplet

Photo Droplet — Inbox

Sal Soghoian

June 1, 2013 8:58 PM

To: Trudy Anchover <bayareaforestscouts@me.com>

[Details](#)

Photo Droplet

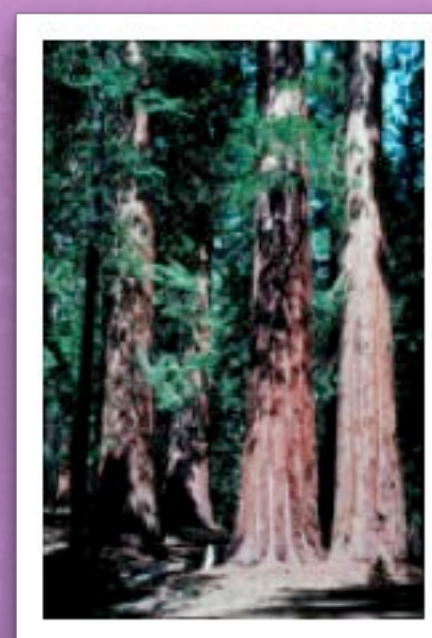
Here you go!

[Photo Prep...et.app \(57 KB\)](#)





Photo Prep Droplet



200952075.jpg





Photo Prep Droplet



200952075.jpg





Photo Prep Droplet



200952075.jpg





Photo Prep Droplet



**“Photo Prep Droplet” can’t be opened
because it is from an unidentified
developer.**

Your security preferences allow installation of only
apps from the Mac App Store and identified
developers.

Mail downloaded this file today at 8:59 PM.



OK





Photo Prep Droplet



**“Photo Prep Droplet” can’t be opened
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OK





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OK



Security & Privacy

◀

▶

Show All

Q

GeneralFileVaultFirewallPrivacy

A login password has been set for this user

Change Password...

☒

Require password

immediately

after sleep or screen saver begins

☐

Show a message when the screen is locked

Set Lock Message...

☒

Disable automatic login

Allow applications downloaded from:

☐ Mac App Store

☒ Mac App Store and identified developers

☐ Anywhere

Click the lock to make changes.

Advanced...

?



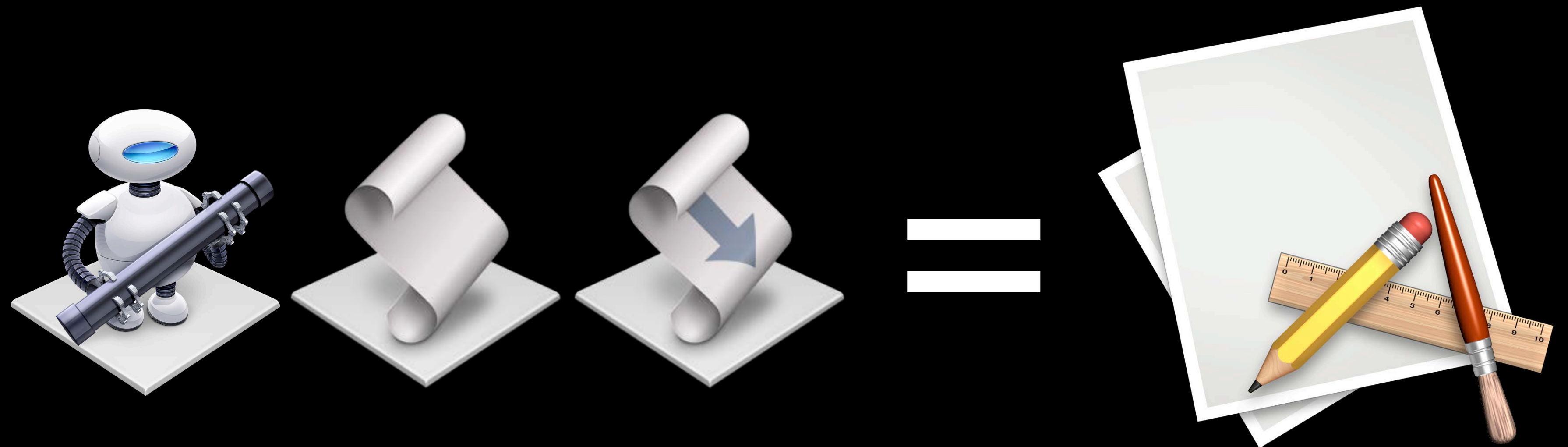


Automation Applets and Security

- Automator and AppleScript applets/droplets are applications

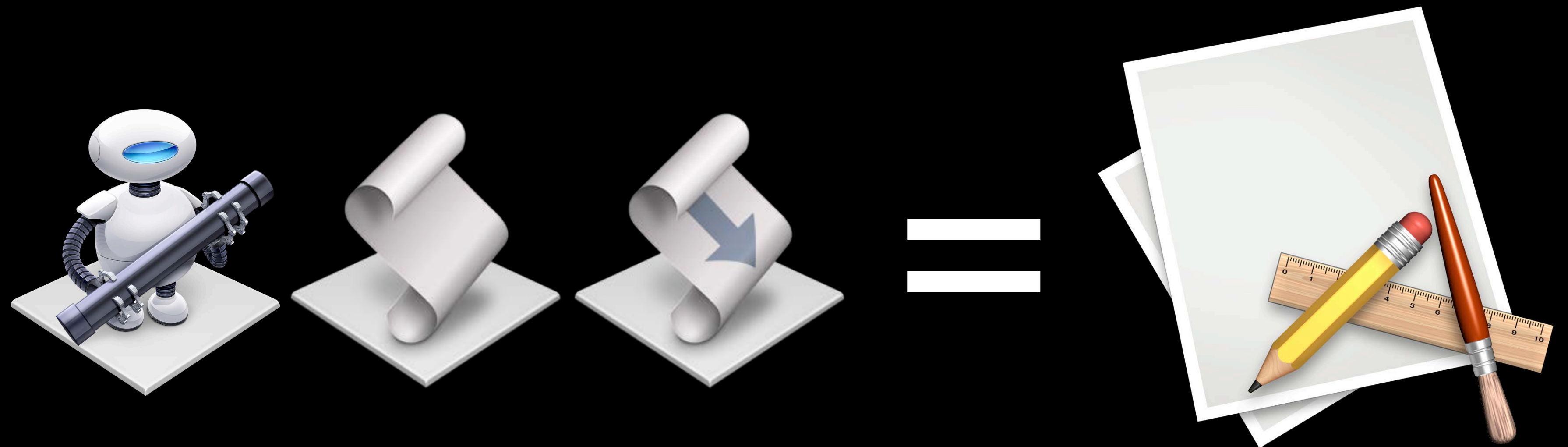
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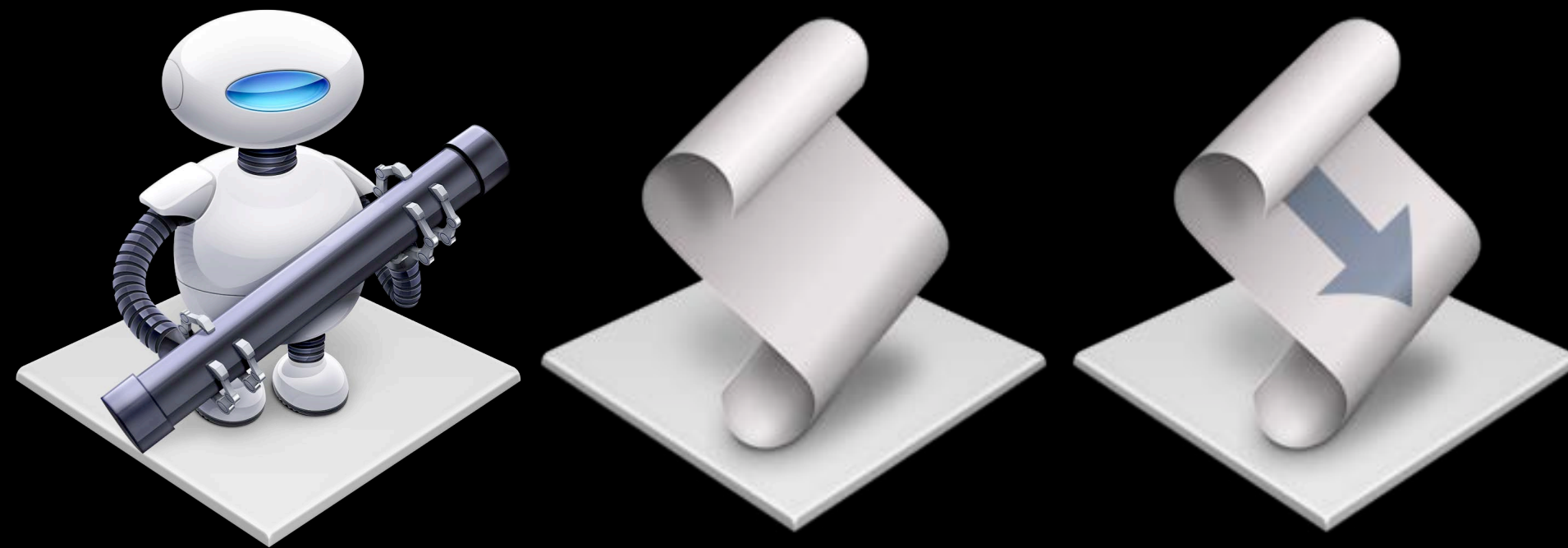
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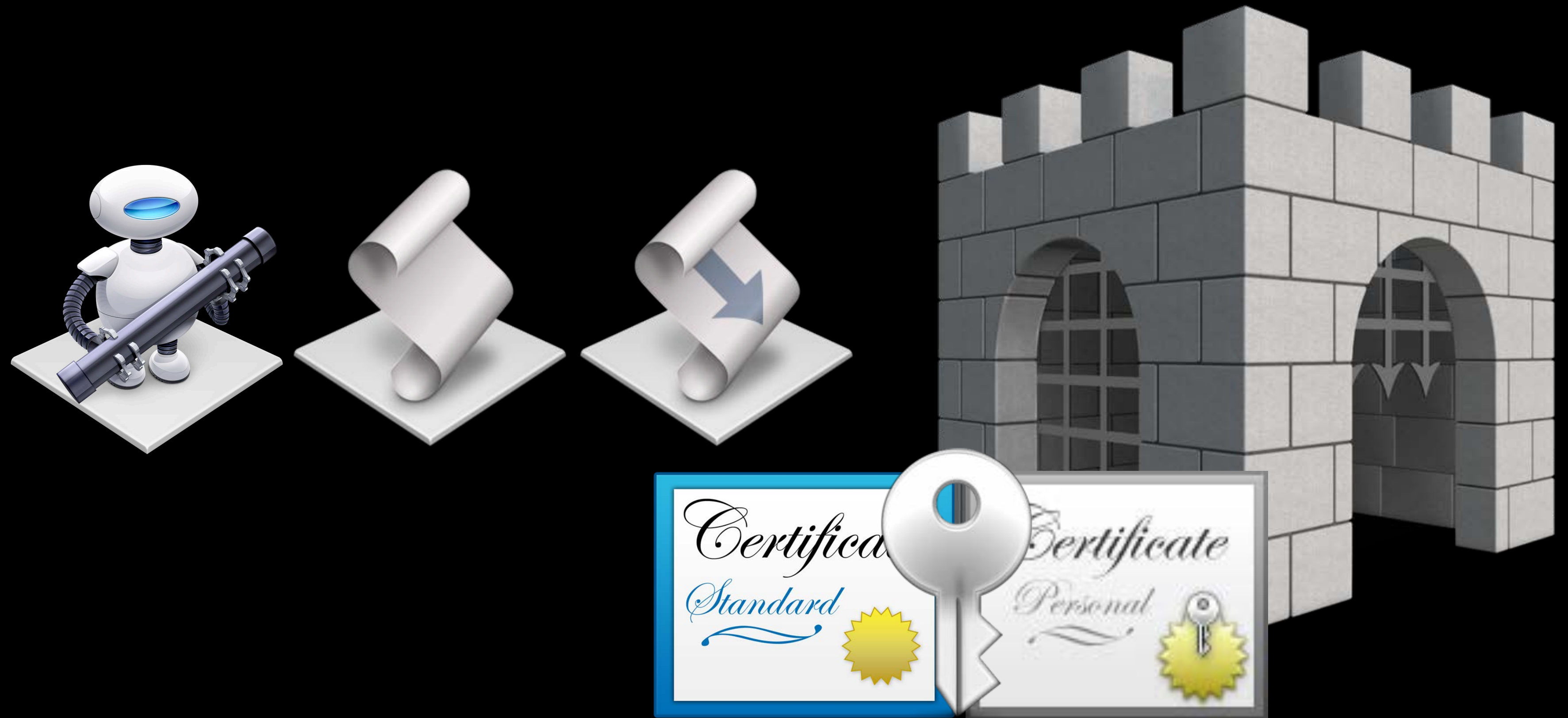
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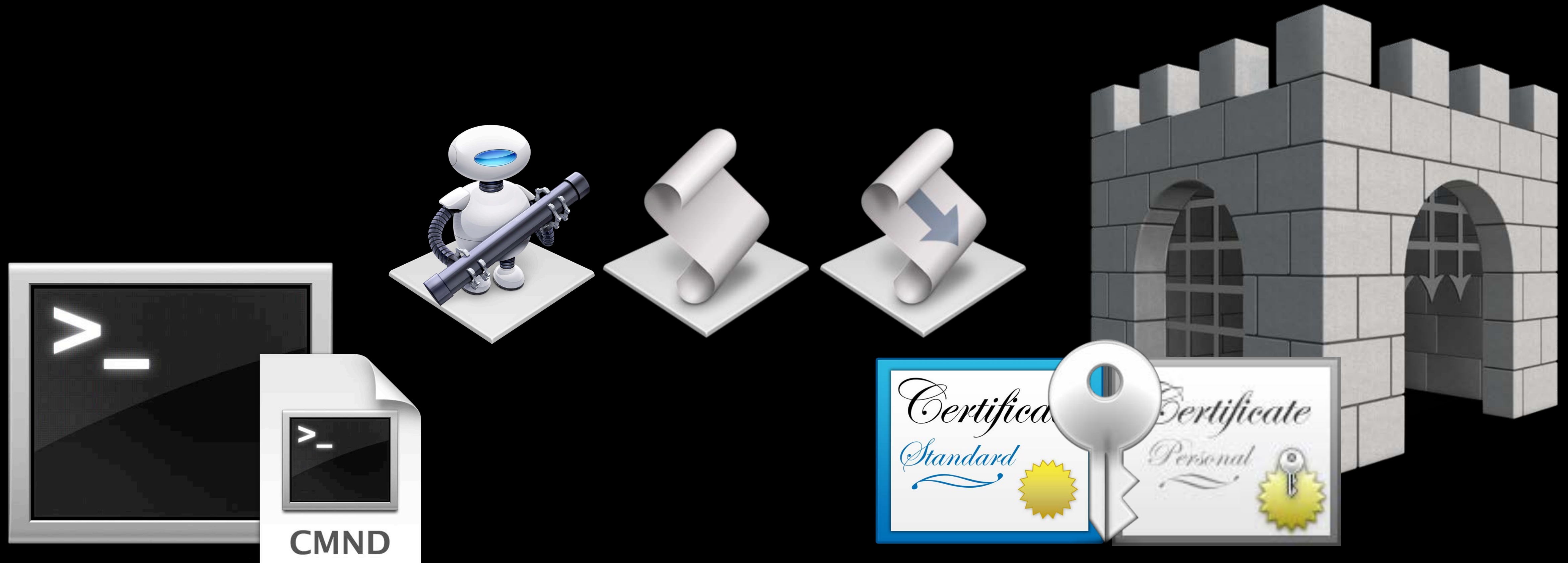
Automation Applets and Security

- Automator and AppleScript applets/droplets are applications
- Require code signing to be compatible with Gatekeeper



Automation Applets and Security

- Automator and AppleScript applets/droplets are applications
- Require code signing to be compatible with Gatekeeper



Code Signing Integration

Applets Signed on Export



Code Signing Integration

Applets Signed on Export



- Automator—AppleScript Editor



Code Signing Integration

Applets Signed on Export



- Automator—AppleScript Editor
- Requires installed Apple Developer identity certificate



Code Signing Integration

Applets Signed on Export



- Automator—AppleScript Editor
- Requires installed Apple Developer identity certificate
- Xcode UNIX tools



Create Single-Page iPad Web App.xcodeproj — Create_Single_Page_iPad_Web_App.applescript

Build Succeeded | 3/28/13 at 4:50 PM

Project 28

Run Stop Scheme Breakpoints

Create Single-Page iPad Web App > My Mac 64-bit

Create Single-Page iPad Web App

1 target, OS X SDK 10.7

Classes

Create_Single_Pa..._App.applescript

Other Sources

Resources

makeTextBigger.png

makeTextSmaller.png

main.xib

Info.plist

InfoPlist.strings

Localizable.strings

Frameworks and Libraries

Linked Frameworks

Other Frameworks

Products

Create Single-Pa...Web App.action

```
-- Create_Single_Page_iPad_Web_App.applescript
-- Create Single-Page iPad Web App

-- Copyright (c) MACOSXAUTOMATION.COM. 2010. All rights reserved.

script Create_Single_Page_iPad_Web_App
    property parent : class "AMBundleAction"
    property NSString : class "NSString"

    property web_typeface_list : {"Arial, Helvetica, sans-serif", "'Arial Black', Gadget, sans-serif", "'Bookman Old Style', serif", "'Comic Sans MS', cursive", "'Courier New', Courier, monospace", "Garamond, serif", "Georgia, serif", "Impact, Charcoal, sans-serif", "'Lucida Console', Monaco, monospace", "'Lucida Sans Unicode', 'Lucida Grande', sans-serif", "'MS Sans Serif', Geneva, sans-serif", "'MS Serif', 'New York', sans-serif", "'Palatino Linotype', 'Book Antiqua', Palatino, serif", "Symbol, sans-serif", "Tahoma, Geneva, sans-serif", "'Times New Roman', Times, serif", "'Trebuchet MS', Helvetica, sans-serif", "Verdana, Geneva, sans-serif"}
    property iPad_typeface_list : {"'AcademyEngravedLetPlain', sans-serif", "'AmericanTypewriter', monospace", "'AppleGothic', sans-serif", "'ArialMT', sans-serif", "'Arial-BoldMT', sans-serif", "'Baskerville', serif", "'BodoniSvtyTwoITCTT', serif", "'BookmanOldStyle', serif", "'BradleyHandITCTT-Bold', cursive", "'Chalkduster', cursive", "'Cochin', serif", "'Copperplate', sans-serif", "'CourierNewPSMT', monospace", "'Didot', serif", "'Futura', sans-serif", "'Georgia', serif", "'GeezaPro', sans-serif", "'GillSans', sans-serif", "'Helvetica', sans-serif", "'HelveticaNeue', sans-serif", "'Hoefler Text', serif", "'MarkerFelt-Thin', sans-serif", "'MarkerFelt-Wide', sans-serif", "'Optima', sans-serif", "'Palatino', serif", "'Papyrus', sans-serif", "'Party LET', cursive", "'Snell Roundhand', cursive", "'Thonburi', sans-serif", "'Times New Roman', serif", "'Trebuchet MS', sans-serif", "'Verdana', sans-serif", "'Zapfino', cursive"}
    property large_size_list : {"36", "48", "64", "72", "96", "128"}
    property small_size_list : {"10", "12", "14", "16", "18", "20", "22", "24"}
    property small_letterspace_list : {"-1", "normal", "1", "2"}
    property large_letterspace_list : {"-4", "-2", "normal", "2", "4", "8", "16"}
    property color_list : {"aqua", "black", "blue", "fuchsia", "gray", "green", "lime", "maroon", "navy", "olive", "purple", "red", "silver", "teal", "white", "yellow", "#FFFFCC", "#CCCCCC", "#E1DAC1", "#DAE1DF", "#F8F0F8", "#F0F8FF", "#F0F4F0", "#FFFFFF8", "#FFF4F0", "#E2DFD0", "#EDEDCE", "#FFF0F8", "#E4E5B8"}

    on runWithInput_fromAction_error_(input, anAction, errorRef)
        try
            log ("AUTOMATOR ACTION Create Single-Page iPad Web App")

            -- GET PARAMETERS RECORD
            set parameters to my parameters()

            -- EXTRACT THE VARIOUS VALUES FOR THE INPUT PARAMETERS
            set appName to parameters's valueForKey_("appName") as string

            set projectTitle to parameters's valueForKey_("projectTitle") as string
            set projectSubHead to parameters's valueForKey_("projectSubHead") as string
            set projectAuthor to parameters's valueForKey_("projectAuthor") as string
            set projectCopyRight to parameters's valueForKey_("projectCopyRight") as string

            log ("AUTOMATOR ACTION appName: " & appName)
```

Identity and Type

File Name Create_Single_Page_iPad_Web_App.applescript

File Type Default - AppleScript Un...

Location Relative to Group

Create_Single_Page_iPad_Web_App.applescript

Full Path /Users/sal/Sites/macosexautomation/workshops/webapps/Create Single-Page iPad Web App/Create_Single_Page_iPad_Web_App.applescript

Localization

Localize...

Target Membership

☒ Create Single-Page iPad Web App

Object Library

☐ Push Button - Intercepts mouse-down events and sends an action message to a target object when...

☐ Gradient Button - Intercepts mouse-down events and sends an action message to a target object...

☐ Rounded Rect Button - Intercepts mouse-down events and sends an action message to a target object...

All Output

Clear

Click to lock the login keychain.

Keychains

login

iCloud

System

System Roots

Category

All Items

Passwords

Secure Notes

My Certificates

Keys

Certificates

Certificate Standard

Developer ID Application: Example Corp, Inc.

Issued by: Developer ID Certification Authority

Expires: Thursday, February 23, 2017 at 2:29:00 PM Pacific Standard Time

✔ This certificate is valid

Name	Kind	Keychain
▶ Developer ID Application: Example Corp, Inc.	certificate	login
▶ Developer ID Certification Authority	certificate	login

+

i

Copy

2 items





Photo Prep Droplet

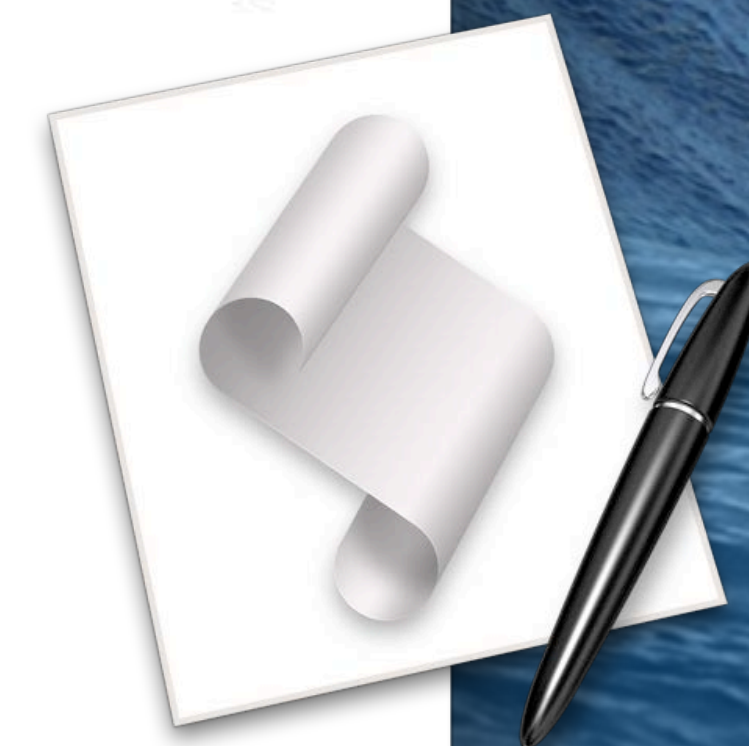
Record Stop Run Compile

Bundle Contents

AppleScript <No selected element>

```
on run
    set theseItems to choose file of type {"public.image"} ↵
        with prompt "Choose the image(s) to frame:" with multiple selections allowed
    open theseItems
end run

on open theseItems
    set the chosenRBGColor to choose color
    set the frameThickness to 48
    try
        repeat with thisItem in theseItems
            tell application "Image Events"
                -- start the Image Events application
                launch
                -- open the image file
                set this_image to open file (thisItem as string)
                -- get dimensions of the image
                copy dimensions of this_image to {W, H}
                -- perform action
                pad this_image to dimensions {W + frameThickness, H + frameThickness} ↵
                    with pad color chosenRBGColor
                -- save the changes
                save this_image with icon
                -- purge the open image data
                close this_image
            end tell
        end repeat
    on error error_message
        display dialog error_message
    end try
end open
```



- New from Template ⌘N
- Open... ⌘O
- Open Dictionary... ⇧⌘O
- Open Recent ▶
- Close ⌘W
- Save ⌘S
- Duplicate ⇧⌘S
- Rename...
- Move To...
- Export...
- Revert To ▶
- Page Setup... ⇧⌘P
- Print... ⌘P

Photo Prep Droplet



```

on run
    -- start the Image Events application
    launch
    -- open the image file
    set this_image to open file (thisItem as string)
    -- get dimensions of the image
    copy dimensions of this_image to {W, H}
    -- perform action
    pad this_image to dimensions {W + frameThickness, H + frameThickness} →
        with pad color chosenRBGColor
    -- save the changes
    save this_image with icon
    -- purge the open image data
    close this_image
end tell
end repeat
on error error_message
    display dialog error_message
end try
end open
    
```





Photo Prep Droplet

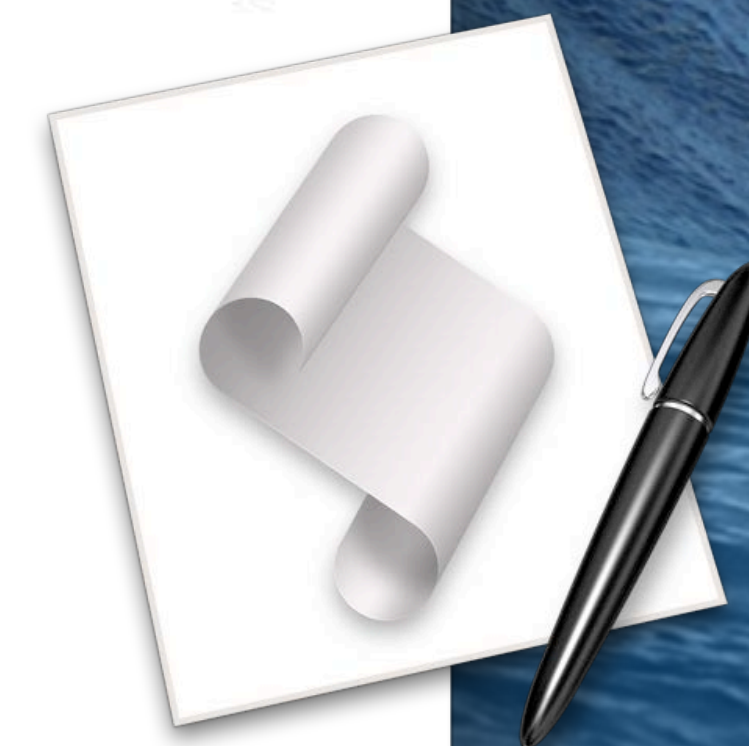
Record Stop Run Compile

Bundle Contents

AppleScript <No selected element>

```
on run
    set theseItems to choose file of type {"public.image"} ↵
        with prompt "Choose the image(s) to frame:" with multiple selections allowed
    open theseItems
end run

on open theseItems
    set the chosenRBGColor to choose color
    set the frameThickness to 48
    try
        repeat with thisItem in theseItems
            tell application "Image Events"
                -- start the Image Events application
                launch
                -- open the image file
                set this_image to open file (thisItem as string)
                -- get dimensions of the image
                copy dimensions of this_image to {W, H}
                -- perform action
                pad this_image to dimensions {W + frameThickness, H + frameThickness} ↵
                    with pad color chosenRBGColor
                -- save the changes
                save this_image with icon
                -- purge the open image data
                close this_image
            end tell
        end repeat
    on error error_message
        display dialog error_message
    end try
end open
```





```
on run
  set these
  with
  open the
end run
```

```
on open these
  set the c
  set the f
  try
  repe
```

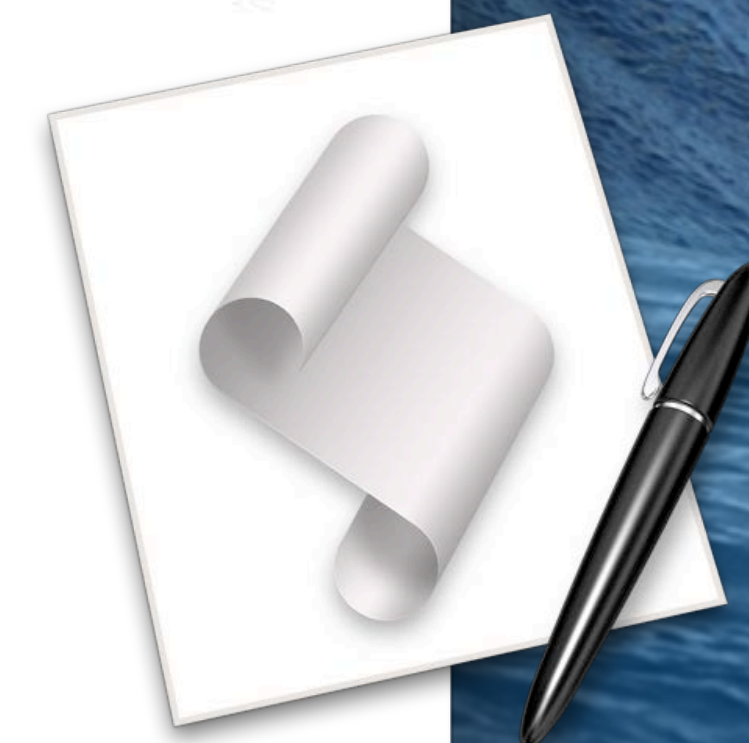
```
pad this_image to dimensions {W + frameThickness, H + frameThickness} →
  with pad color chosenRBGColor
-- save the changes
save this_image with icon
-- purge the open image data
close this_image
end tell
end repeat
on error error_message
  display dialog error_message
end try
end open
```





```

pad this_image to dimensions {W + frameThickness, H + frameThickness} →
    with pad color chosenRBGColor
-- save the changes
save this_image with icon
-- purge the open image data
close this_image
end tell
end repeat
on error error_message
    display dialog error_message
end try
end open
    
```



Record

Stop

Run

Compile

Bundle Contents

AppleScript

```
on run
  set these
  with
  open the
end run

on open these
  set the c
  set the f
  try
  repe
```

Export As: Photo Prep Droplet

Tags:

Where: Desktop

File Format: Application

Options:

Show startup screen

Stay open after run handler

Run-only

Code Sign

✓ Don't Code Sign

Identities

Developer ID Application: Example Corp, Inc.

```
pad this_image to dimensions {W + frameThickness, H + frameThickness} ↵
  with pad color chosenRBGColor
-- save the changes
save this_image with icon
-- purge the open image data
close this_image
end tell
end repeat
on error error_message
  display dialog error_message
end try
end open
```



Record Stop Run Compile

Photo Prep Droplet

Bundle Contents

AppleScript

```
on run
    set these
        with
    open the
end run

on open these
    set the c
    set the f
    try
        repe
```

Export As: Photo Prep Droplet

Tags:

Where: Desktop

File Format: Application

Options:
☐ Show startup screen
☐ Stay open after run handler
☐ Run-only

Code Sign: Don't Code Sign

Cancel Save

```
pad this_image to dimensions {W + frameThickness, H + frameThickness} →
    with pad color chosenRBGColor
-- save the changes
save this_image with icon
-- purge the open image data
close this_image
end tell
end repeat
on error error_message
    display dialog error_message
end try
end open
```



Record Stop Run Compile

Photo Prep Droplet

Bundle Contents

AppleScript

```
on run
  set these
  with
  open the
end run

on open these
  set the c
  set the f
  try
    repe
```

Export As: Photo Prep Droplet

Tags:

Where: Desktop

File Format: Application

Options:
☐ Show startup screen
☐ Stay open after run handler
☐ Run-only

Code Sign: Developer ID Application: E...

Cancel Save

```
pad this_image to dimensions {W + frameThickness, H + frameThickness} →
  with pad color chosenRBGColor
-- save the changes
save this_image with icon
-- purge the open image data
close this_image
end tell
end repeat
on error error_message
  display dialog error_message
end try
end open
```



Record

Stop

Run

Compile

Bundle Contents

Export As: Photo Prep Droplet

Tags:

Where: Desktop

File Format: Application

Options:

Show startup screen

Stay open after run handler

Run-only

Code Sign: Developer ID Application: E...

Cancel

Save

AppleScript

```
on run
  set these
  with
  open the
end run

on open these
  set the c
  set the f
  try
    repe
    pad this_image to dimensions {W + frameThickne
    with pad color chosenRBGColor
    -- save the changes
    save this_image with icon
    -- purge the open image data
    close this_image
  end tell
end repeat
on error error_message
  display dialog error_message
end try
end open
```



Record Stop Run Compile

Photo Prep Droplet

Bundle Contents

AppleScript

on run

set these

with

open the

end run

on open these

set the c

set the f

try

repe

end tell

end repeat

on error error_message

display dialog error_message

end try

end open

Export As: Photo Prep Droplet

Tags:

Where: Desktop

File Format: Application

Options:

Show startup screen

Stay open after run handler

Run-only

Code Sign: Developer ID Application: E...

Cancel

Save

pad this_image to dimensions {W + frameThickness, H + frameThickness} ↵

with pad color chosenRBGColor

-- save the changes

save this_image with icon

-- purge the open image data

close this_image





Photo Prep Droplet

Record Stop Run Compile Bundle Contents

```
AppleScript <No selected element>

on run
    set theseItems to choose file of type {"public.image"} ↵
        with prompt "Choose the image(s) to frame:" with multiple selections allowed
    open theseItems
end run

on open theseItems
    set the chosenRBGColor to choose color
    set the frameThickness to 48
    try
        repeat with thisItem in theseItems
            tell application "Image Events"
                -- start the Image Events application
                launch
                -- open the image file
                set this_image to open file (thisItem as string)
                -- get dimensions of the image
                copy dimensions of this_image to {W, H}
                -- perform action
                pad this_image to dimensions {W + frameThickness, H + frameThickness} ↵
                    with pad color chosenRBGColor
                -- save the changes
                save this_image with icon
                -- purge the open image data
                close this_image
            end tell
        end repeat
    on error error_message
        display dialog error_message
    end try
end open
```

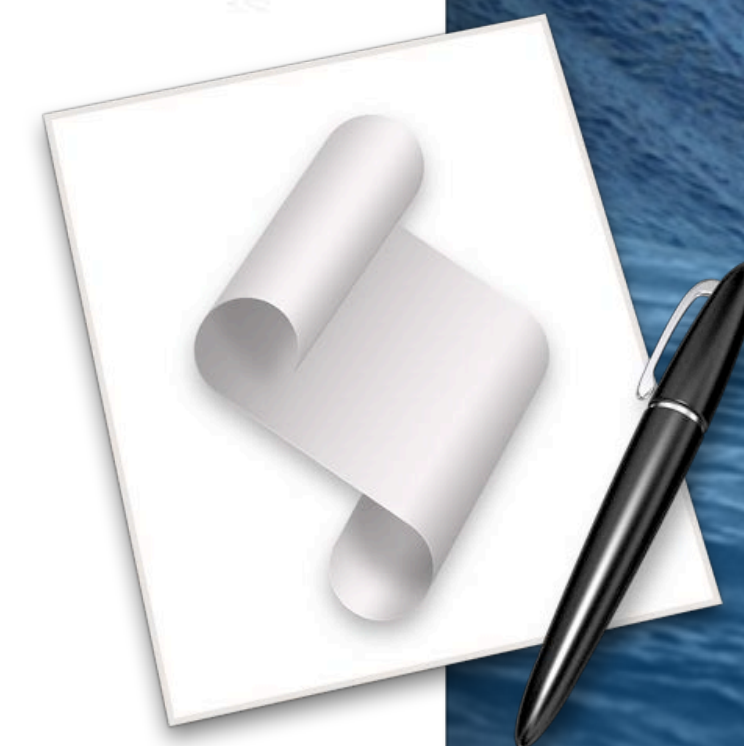




Photo Prep Droplet

Photo Prep Droplet

Record Stop Run Compile

Bundle Contents

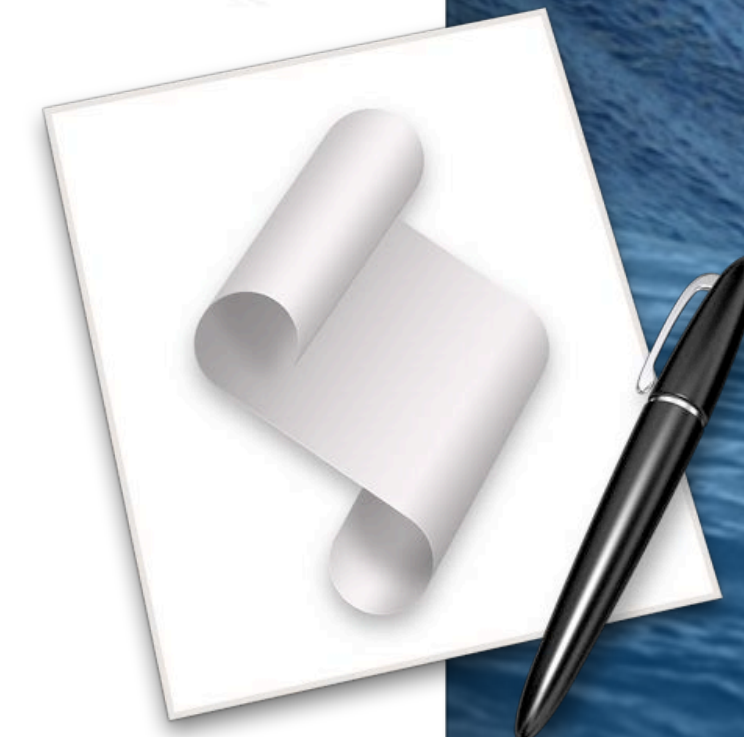
AppleScript

<No selected element>

```

on run
    set theseItems to choose file of type {"public.image"} ↵
        with prompt "Choose the image(s) to frame:" with multiple selections allowed
    open theseItems
end run

on open theseItems
    set the chosenRBGColor to choose color
    set the frameThickness to 48
    try
        repeat with thisItem in theseItems
            tell application "Image Events"
                -- start the Image Events application
                launch
                -- open the image file
                set this_image to open file (thisItem as string)
                -- get dimensions of the image
                copy dimensions of this_image to {W, H}
                -- perform action
                pad this_image to dimensions {W + frameThickness, H + frameThickness} ↵
                    with pad color chosenRBGColor
                -- save the changes
                save this_image with icon
                -- purge the open image data
                close this_image
            end tell
        end repeat
    on error error_message
        display dialog error_message
    end try
end open
    
```



Encode to 480P and 720P (Application) ▾

Show Library

Media

Record

Step

Stop

Run

Application receives files and folders as input

▶  **Filter Finder Items (Filter for Movie Files)** ✕

▶  **Set Value of Variable (Store Input)** ✕

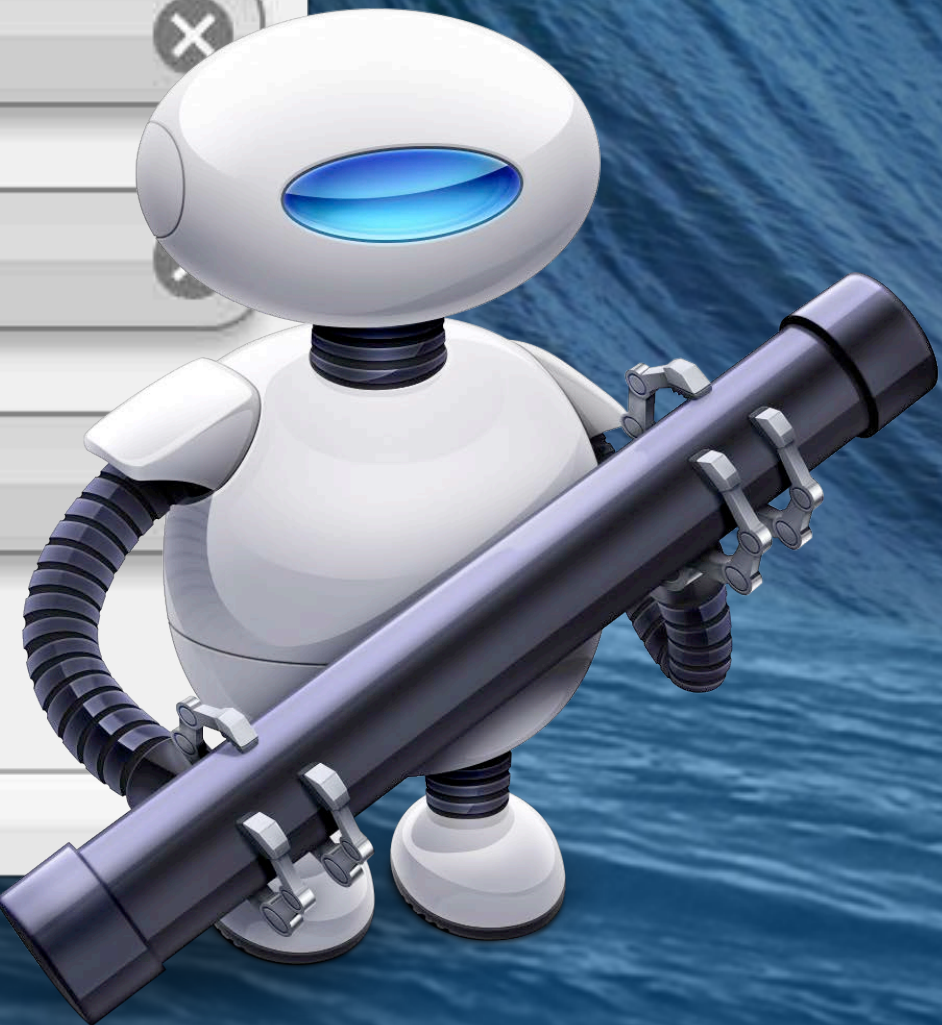
▶  **Encode Media (480P HQ)** ✕

▶  **Rename Finder Items: Add Text (Append 480P to Name)** ✕

▶  **Get Value of Variable (Retrieve Original Input)** ✕

▶  **Encode Media (720P HQ)** ✕

▶  **Rename Finder Items: Add Text (Append 720P to Name)** ✕



Encode to 480P and 720P (Application) ▾

Show Library

Media

Record

Step

Stop

Run

Application receives files and folders as input

▶

 Filter Finder Items (Filter for Movie Files)

✕

▶

 Set Value of Variable (Store Input)

✕

▶

 Encode Media (480P HQ)

✕

▶

 Rename Finder Items: Add Text (Append 480P to Name)

✕

▶

 Get Value of Variable (Retrieve Original Input)

✕

▶

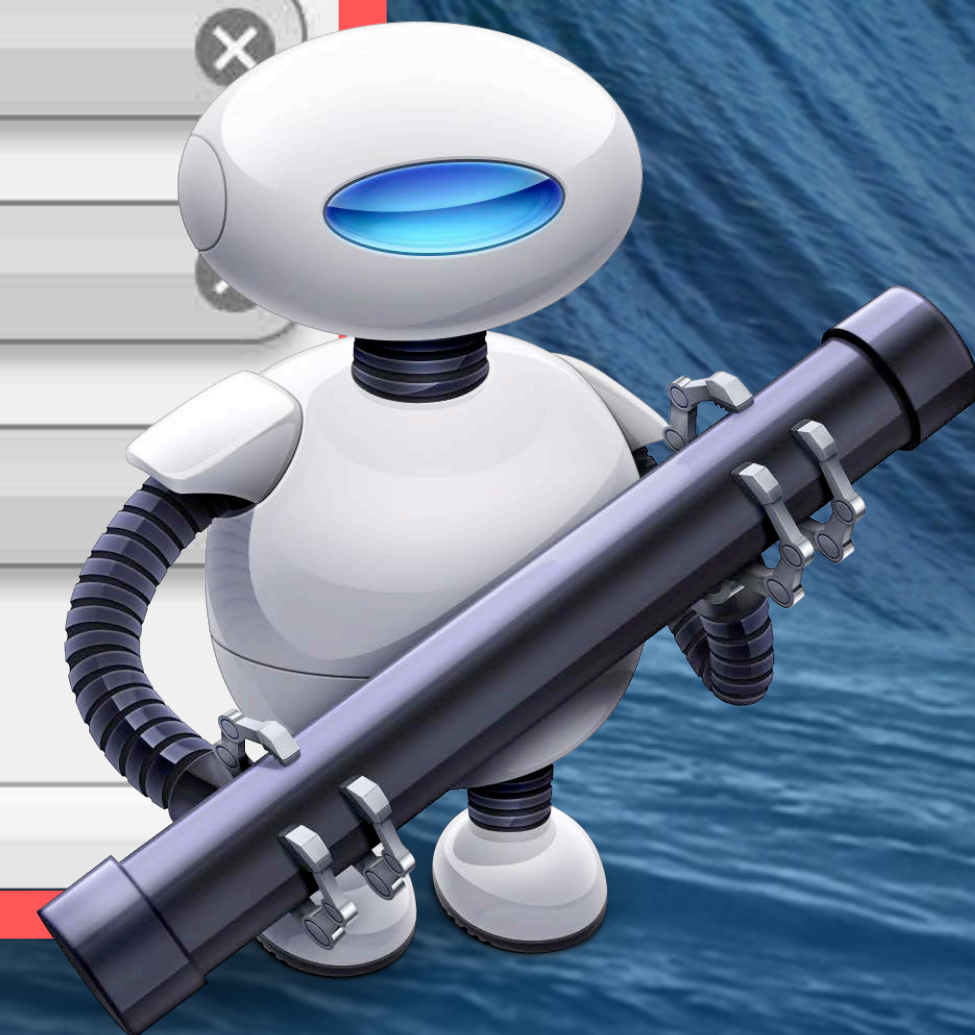
 Encode Media (720P HQ)

✕

▶

 Rename Finder Items: Add Text (Append 720P to Name)

✕



Encode to 480P and 720P (Application) ▾

Show Library

Media

Record

Step

Stop

Run

Application receives files and folders as input

▶

 **Filter Finder Items (Filter for Movie Files)**

✕

▶

 **Set Value of Variable (Store Input)**

✕

▶

 **Encode Media (480P HQ)**

✕

▶

 **Rename Finder Items: Add Text (Append 480P to Name)**

✕

▶

 **Get Value of Variable (Retrieve Original Input)**

✕

▶

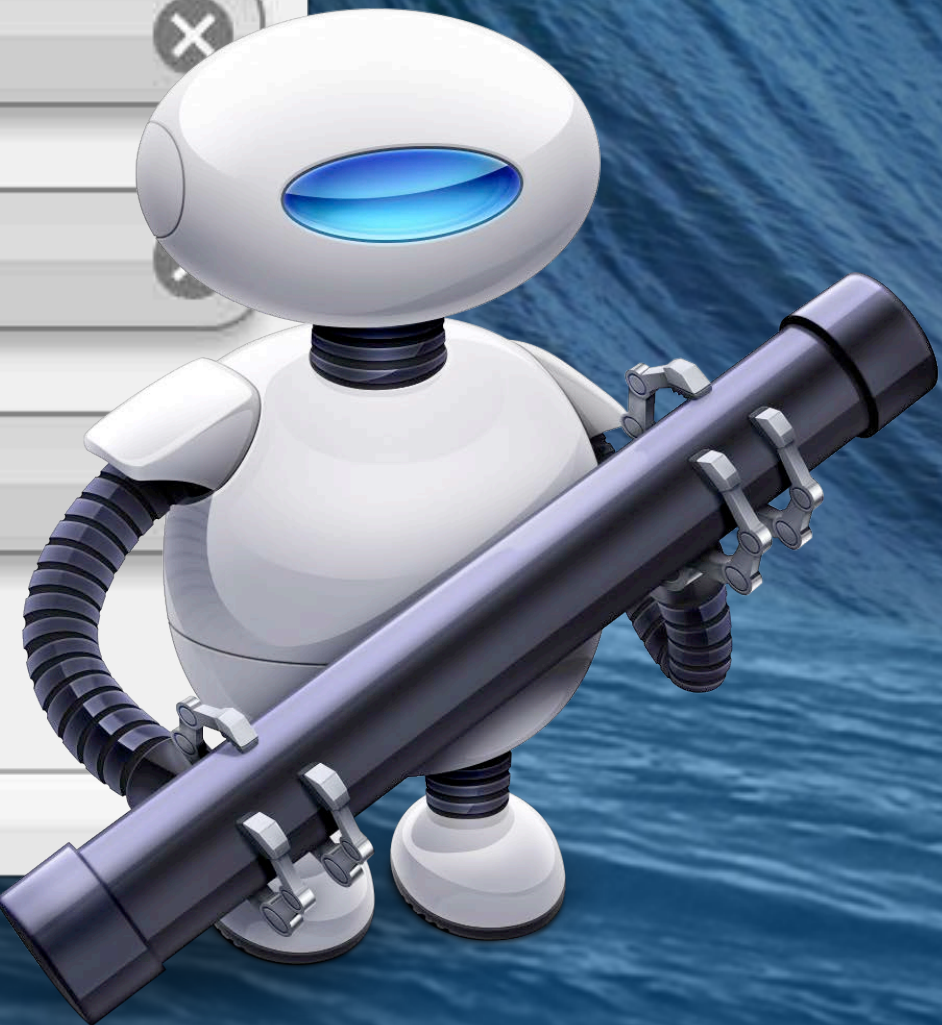
 **Encode Media (720P HQ)**

✕

▶

 **Rename Finder Items: Add Text (Append 720P to Name)**

✕



- Open... ⌘N
- Open Recent ⌘O
- Close ⌘W
- Save ⌘S
- Duplicate ⇧⌘S
- Rename...
- Move To...
- Convert To ⌘C
- Export...**
- Revert To
- Export Log...
- Import Actions...
- Page Setup... ⇧⌘P
- Print... ⌘P

Encode to 480P and 720P (Application) ▾

Record Step Stop Run

Application receives files and folders as input

Filter Finder Item (Filter for Movie Files)

Set Value of Variable (Store Input)

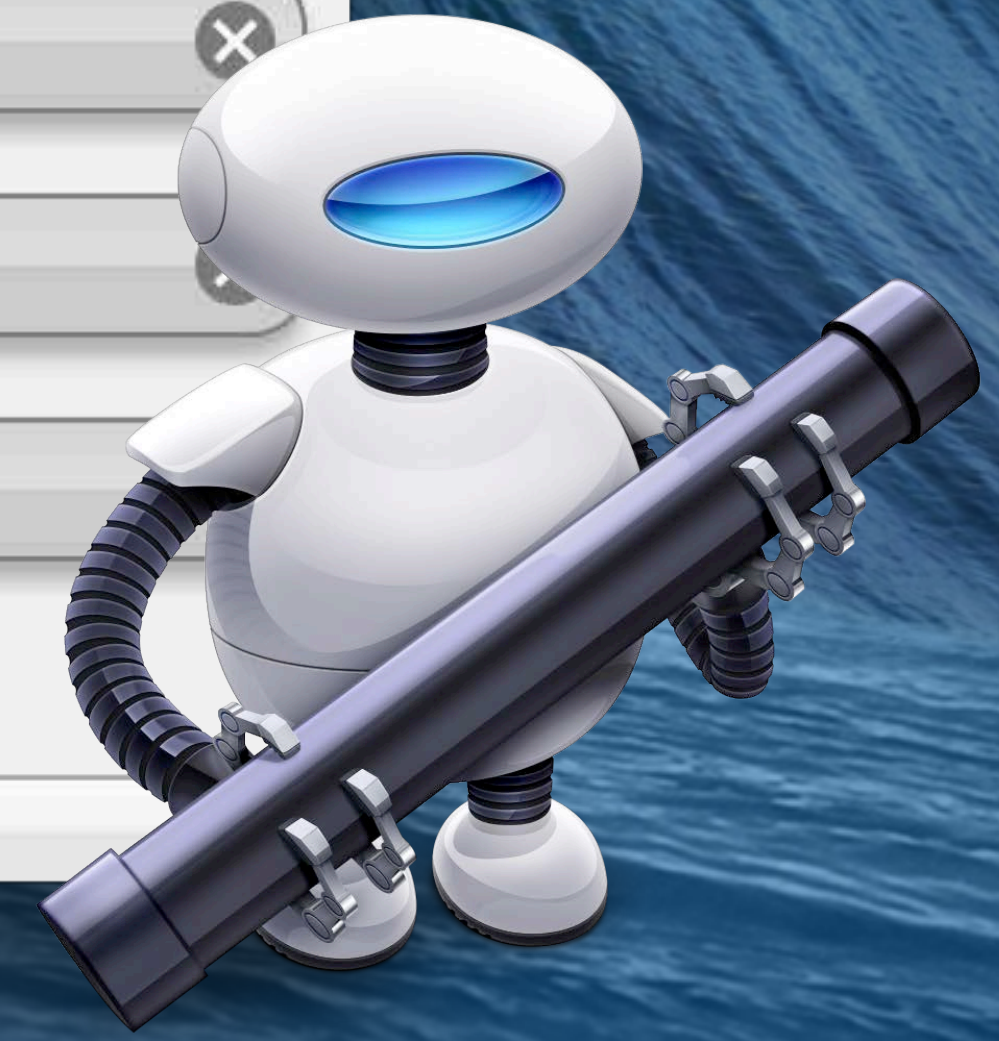
Encode Media (480P HQ)

Rename Finder Items: Add Text (Append 480P to Name)

Get Value of Variable (Retrieve Original Input)

Encode Media (720P HQ)

Rename Finder Items: Add Text (Append 720P to Name)



Encode to 480P and 720P (Application) ▾

Show Library

Media

Record

Step

Stop

Run

Application receives files and folders as input

▶

 Filter Finder Items (Filter for Movie Files)

✕

▶

 Set Value of Variable (Store Input)

✕

▶

 Encode Media (480P HQ)

✕

▶

 Rename Finder Items: Add Text (Append 480P to Name)

✕

▶

 Get Value of Variable (Retrieve Original Input)

✕

▶

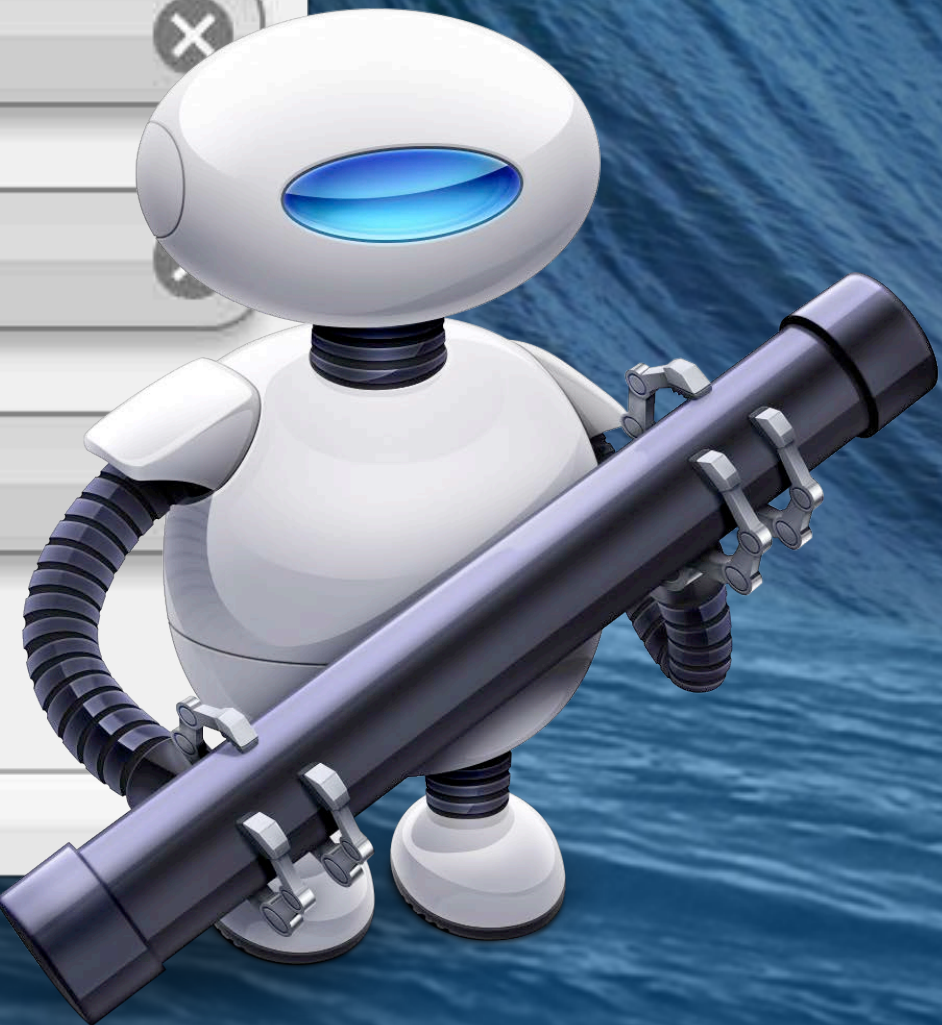
 Encode Media (720P HQ)

✕

▶

 Rename Finder Items: Add Text (Append 720P to Name)

✕



ⓘ

Ⓜ

Show LibraryMedia

Ⓜ

Record

Step

Stop

Run

Export As: Encode to 480P and 720P

Tags:

Where: Desktop

Code Sign: Don't Code Sign

CancelSave

▶ Ⓜ Filter Finder Items

▶ Ⓜ Set Value of Variable (Store Input)

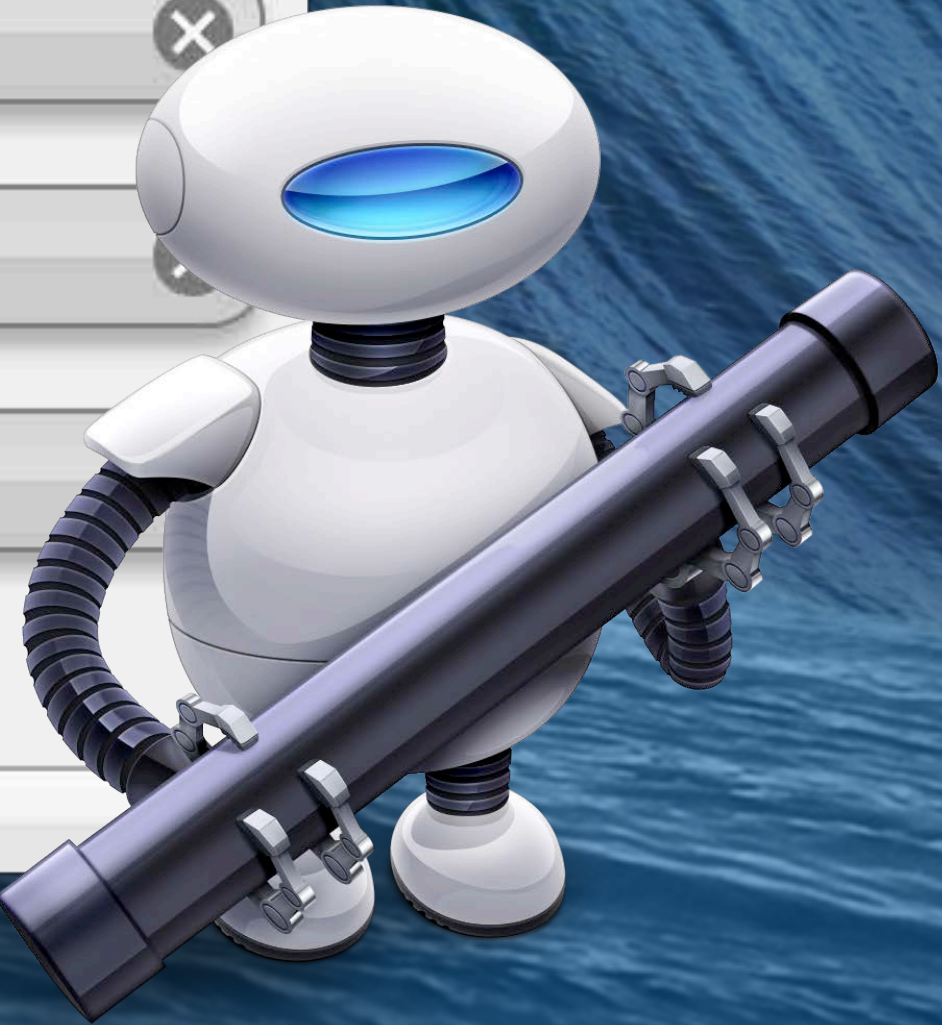
▶ Ⓜ Encode Media (480P HQ)

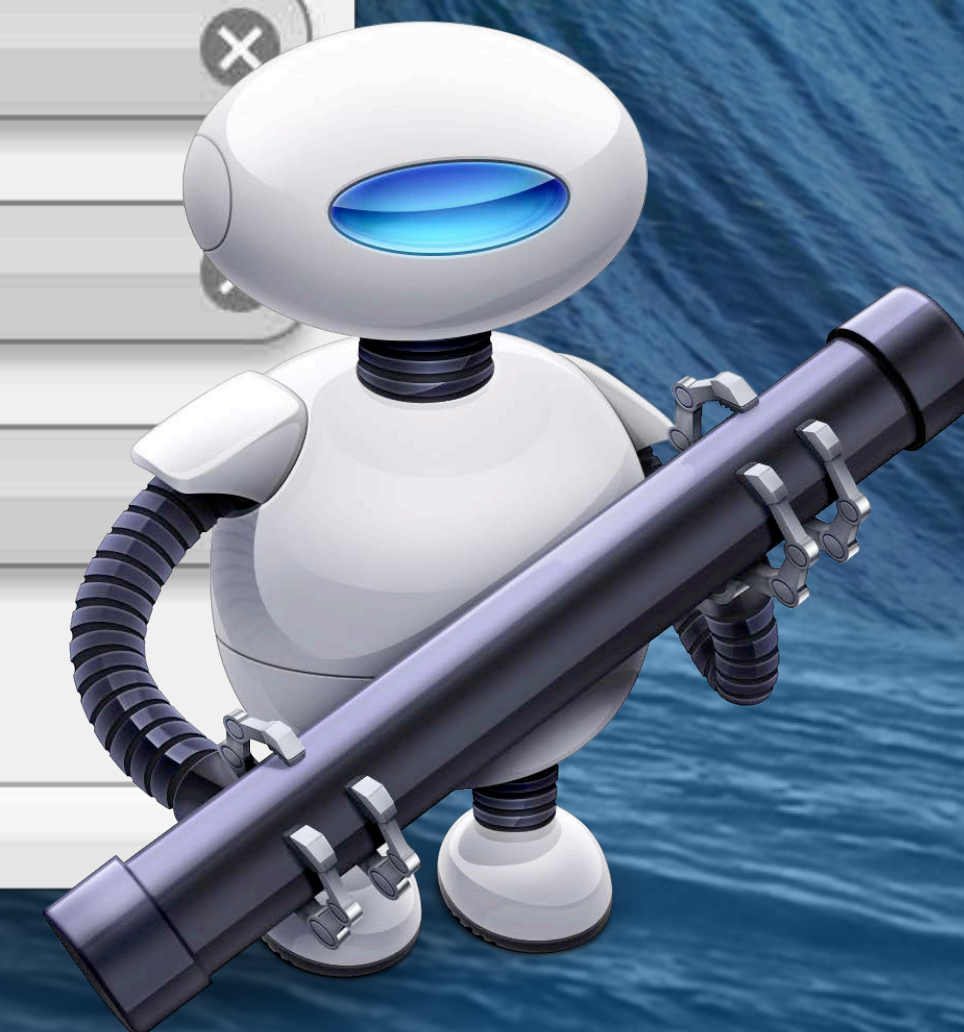
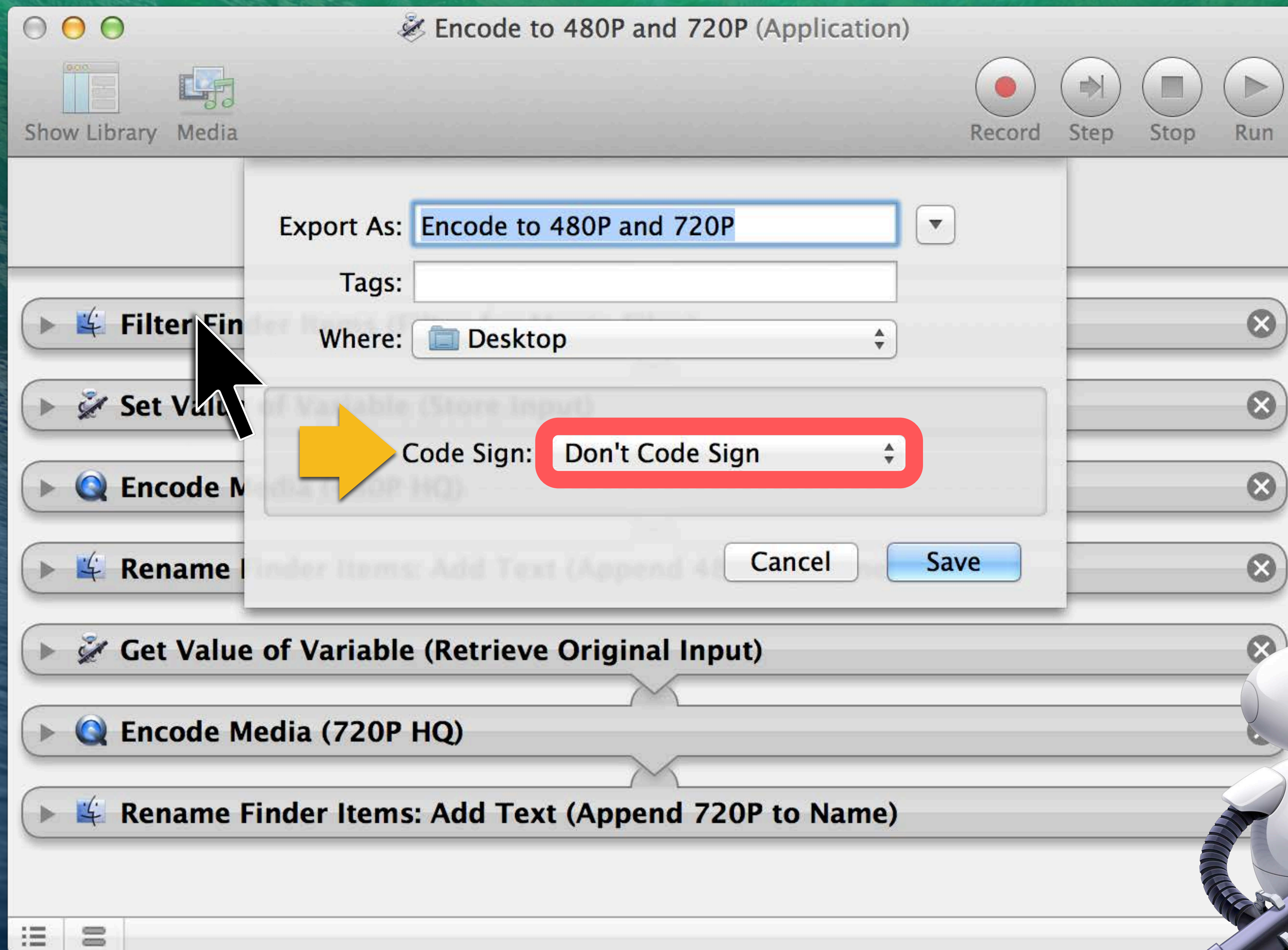
▶ Ⓜ Rename Finder Items: Add Text (Append 480P to Name)

▶ Ⓜ Get Value of Variable (Retrieve Original Input)

▶ Ⓜ Encode Media (720P HQ)

▶ Ⓜ Rename Finder Items: Add Text (Append 720P to Name)





ⓘ

⌵

⌵

Encode to 480P and 720P (Application)

Show Library

Media

Record

Step

Stop

Run

Export As: Encode to 480P and 720P

Tags:

Where: Desktop

Code Sign

- ✓ Don't Code Sign
- Identities

Developer ID Application: Example Corp, Inc.

▶ Filter Finders

▶ Set Value of Variable (Store Input)

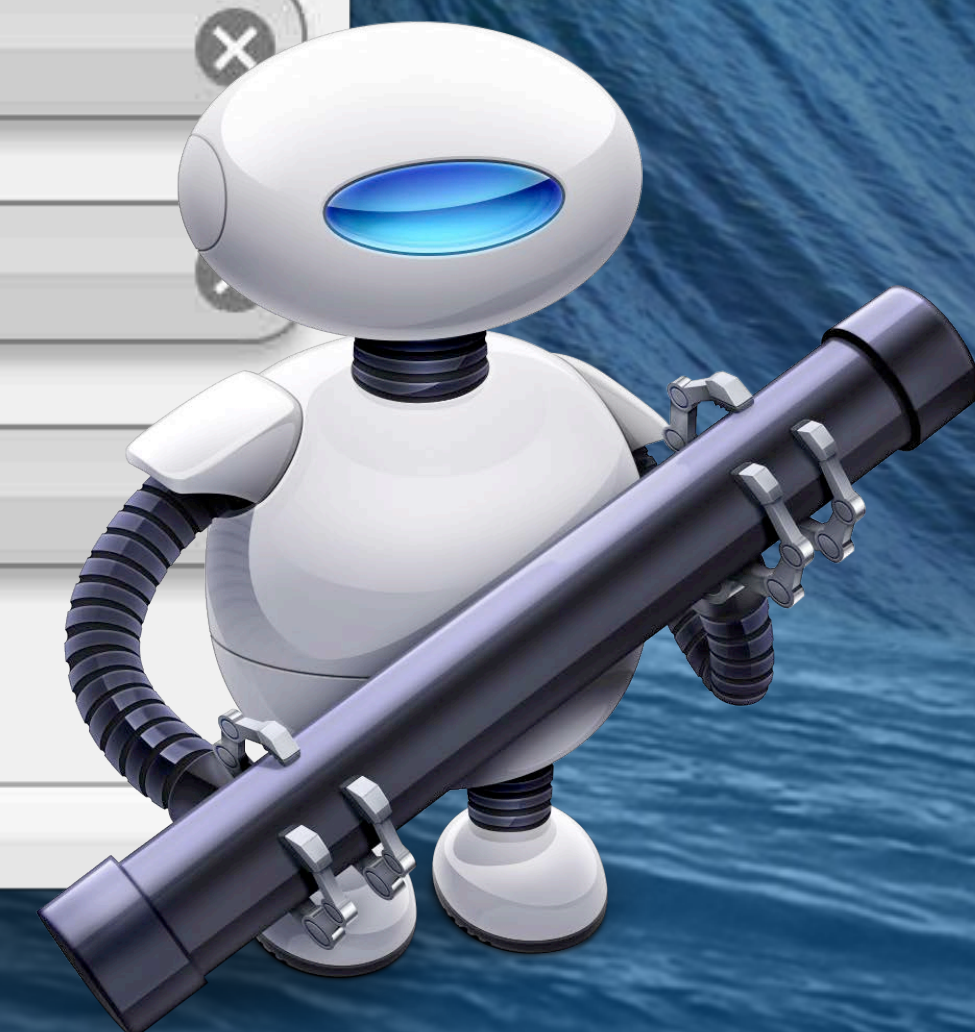
▶ Encode Media (480P HQ)

▶ Rename Finder Items: Add Text

▶ Get Value of Variable (Retrieve Original Input)

▶ Encode Media (720P HQ)

▶ Rename Finder Items: Add Text (Append 720P to Name)



Encode to 480P and 720P (Application)

Show Library

Media

Record

Step

Stop

Run

Export As: Encode to 480P and 720P

Tags:

Where: Desktop

Code Sign: Don't Code Sign

Cancel

Save

Filter Finders

Set Value of Variable (Store Input)

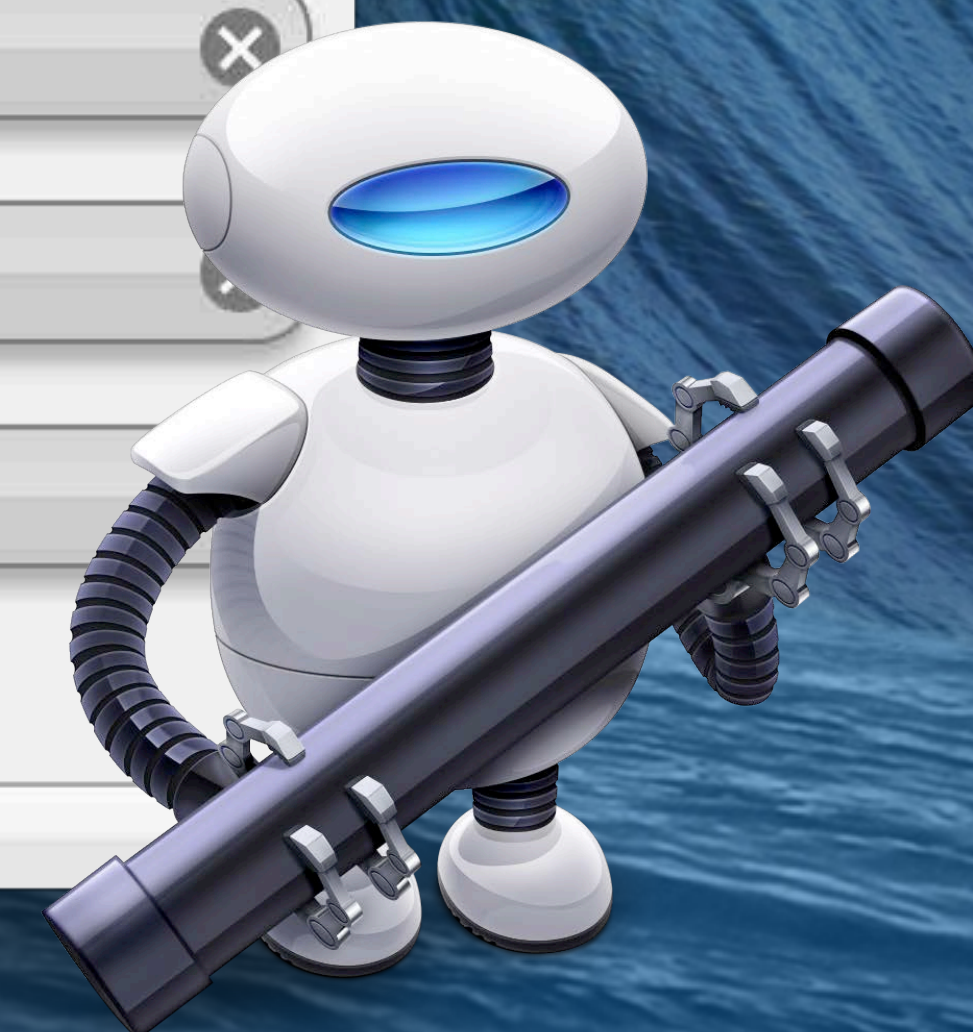
Encode Media (480P HQ)

Rename Finder Items: Add Text (Append 480P to Name)

Get Value of Variable (Retrieve Original Input)

Encode Media (720P HQ)

Rename Finder Items: Add Text (Append 720P to Name)



Encode to 480P and 720P (Application)

Show Library

Media

Record

Step

Stop

Run

Export As: Encode to 480P and 720P

Tags:

Where: Desktop

Code Sign: Developer ID Applicati...

Cancel

Save

Filter Finders

Set Value of Variable (Store Input)

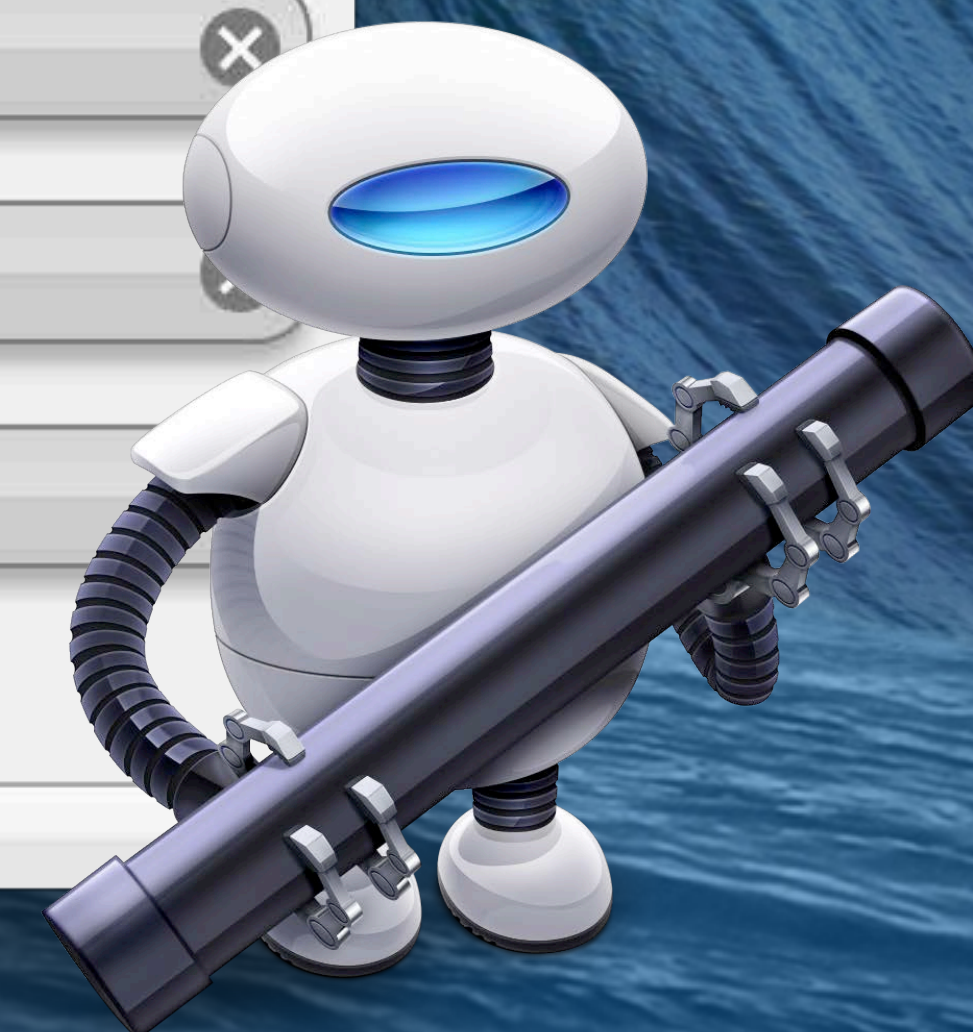
Encode Media (480P HQ)

Rename Finder Items: Add Text (Append 480P to Name)

Get Value of Variable (Retrieve Original Input)

Encode Media (720P HQ)

Rename Finder Items: Add Text (Append 720P to Name)



Encode to 480P and 720P (Application)

Show LibraryMedia

Record

Step

Stop

Run

Export As:Encode to 480P and 720P

Tags:

Where:Desktop

Code Sign:Developer ID Applicati...

CancelSave

Filter Finders

Set Value of Variable (Store Input)

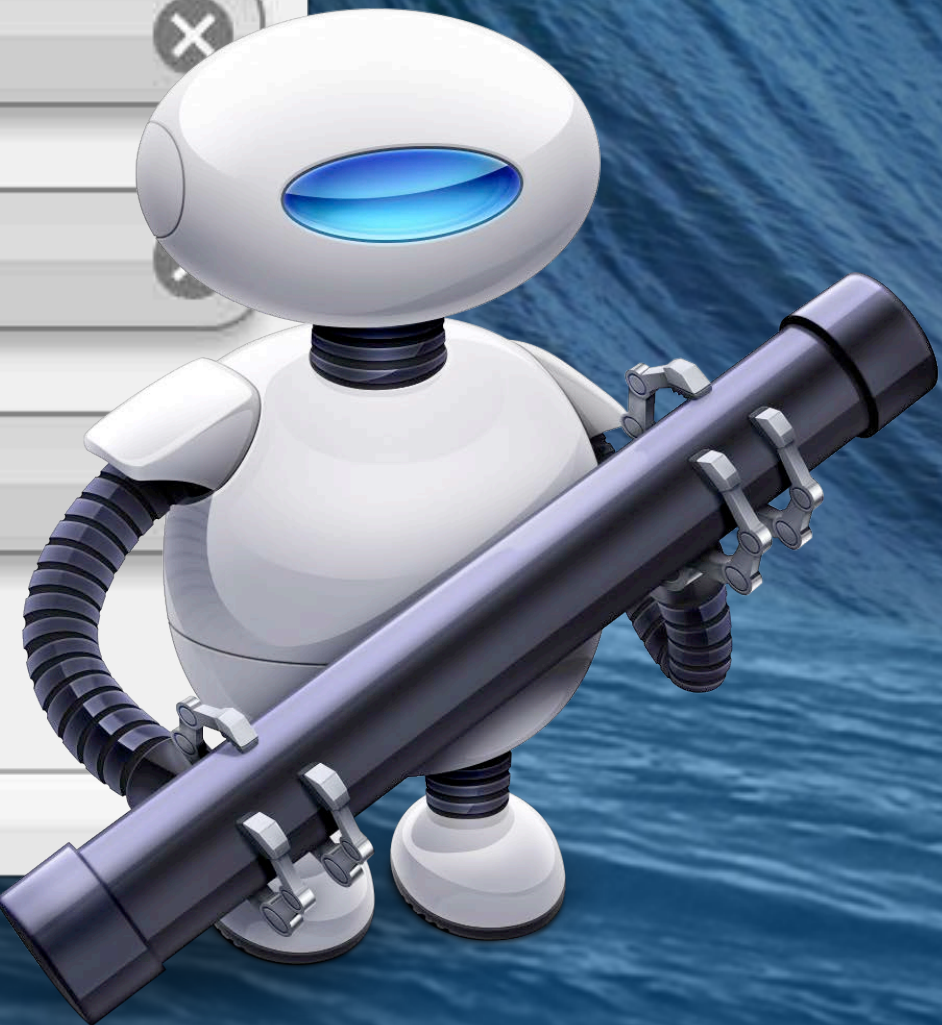
Encode Media (480P HQ)

Rename Finder Items: Add Text (Append 480P to Name)

Get Value of Variable (Retrieve Original Input)

Encode Media (720P HQ)

Rename Finder Items: Add Text (Append 720P to Name)



Encode to 480P and 720P (Application)

Show Library

Media

Record

Step

Stop

Run

Export As: Encode to 480P and 720P

Tags:

Where: Desktop

Code Sign: Developer ID Applicati...

CancelSave

Filter Finders

Set Value of Variable (Store Input)

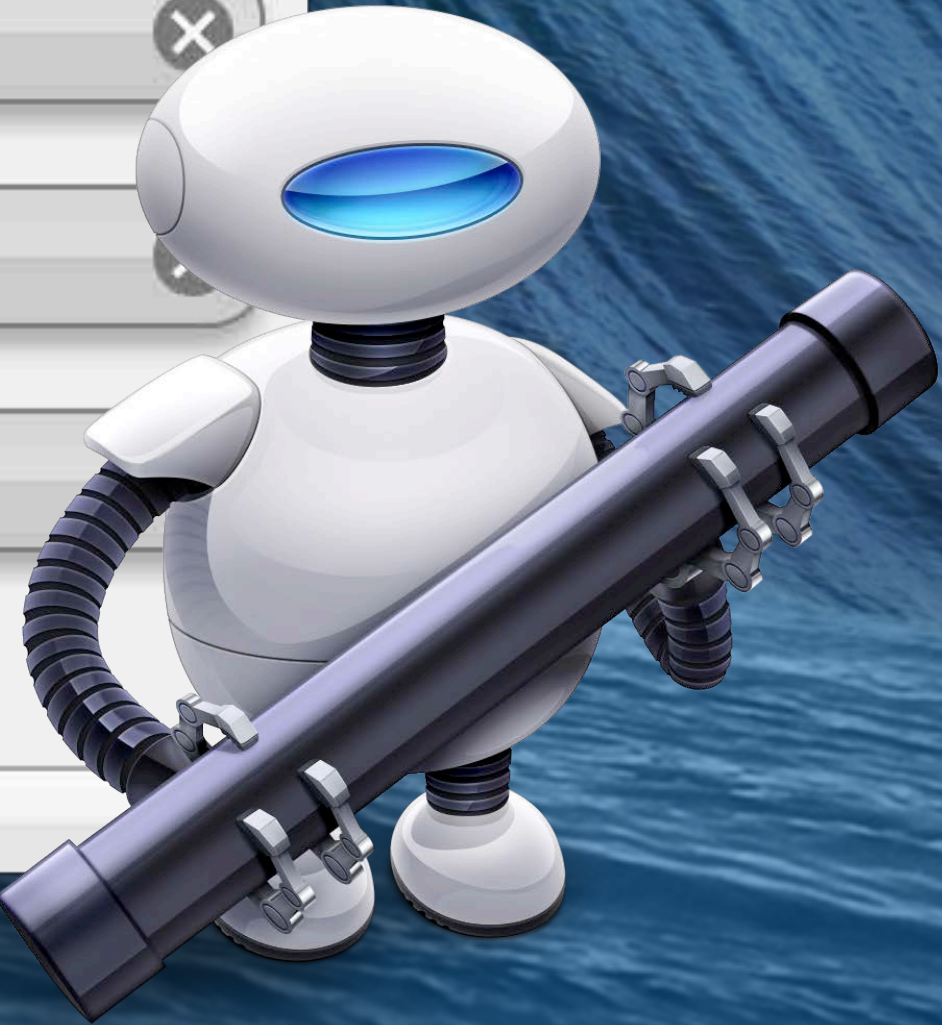
Encode Media (480P HQ)

Rename Finder Items: Add Text (Append 480P to Name)

Get Value of Variable (Retrieve Original Input)

Encode Media (720P HQ)

Rename Finder Items: Add Text (Append 720P to Name)



Encode to 480P and 720P (Application) ▾

Show Library

Media

Record

Step

Stop

Run

Application receives files and folders as input

▶  **Filter Finder Items (Filter for Movie Files)** 

▶  **Set Value of Variable (Store Input)** 

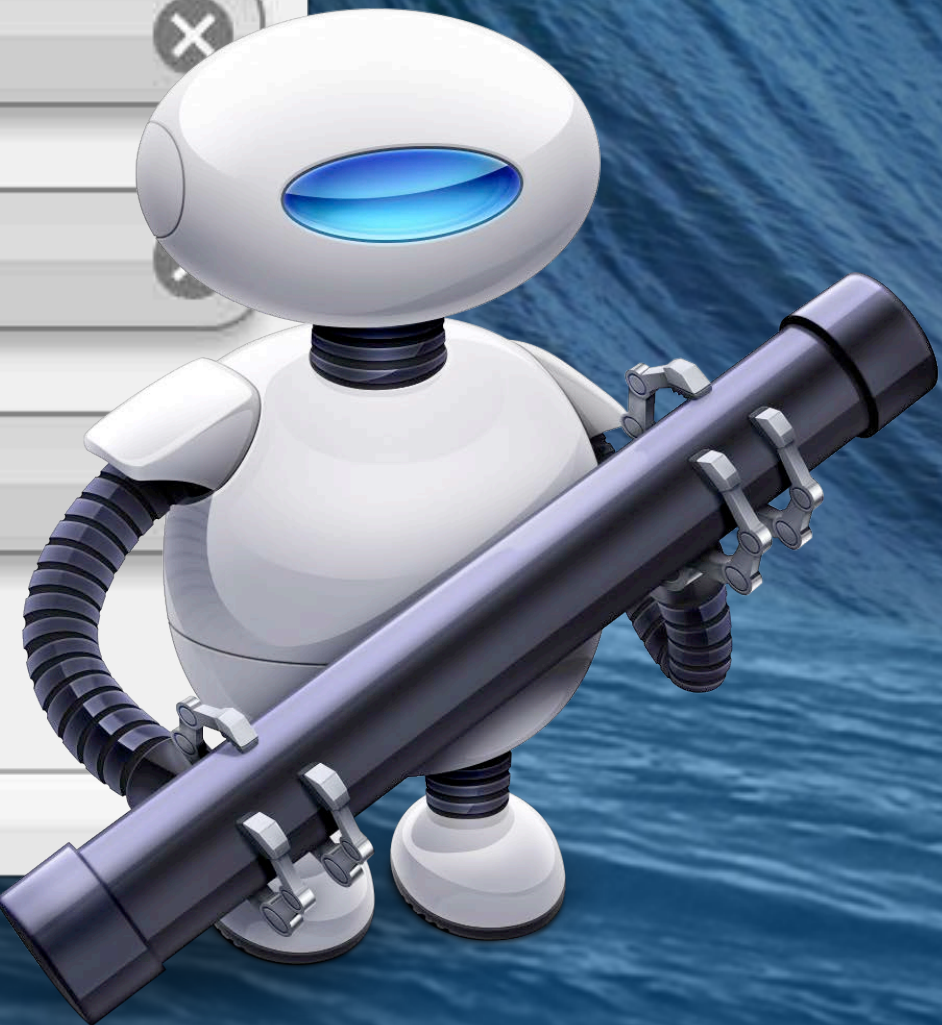
▶  **Encode Media (480P HQ)** 

▶  **Rename Finder Items: Add Text (Append 480P to Name)** 

▶  **Get Value of Variable (Retrieve Original Input)** 

▶  **Encode Media (720P HQ)** 

▶  **Rename Finder Items: Add Text (Append 720P to Name)** 





Encode to 480P and 720P (Application) ▾

Show Library

Media

Record

Step

Stop

Run

Application receives files and folders as input

▶ Filter Finder Items (Filter for Movie Files)

▶ Set Value of Variable (Store Input)

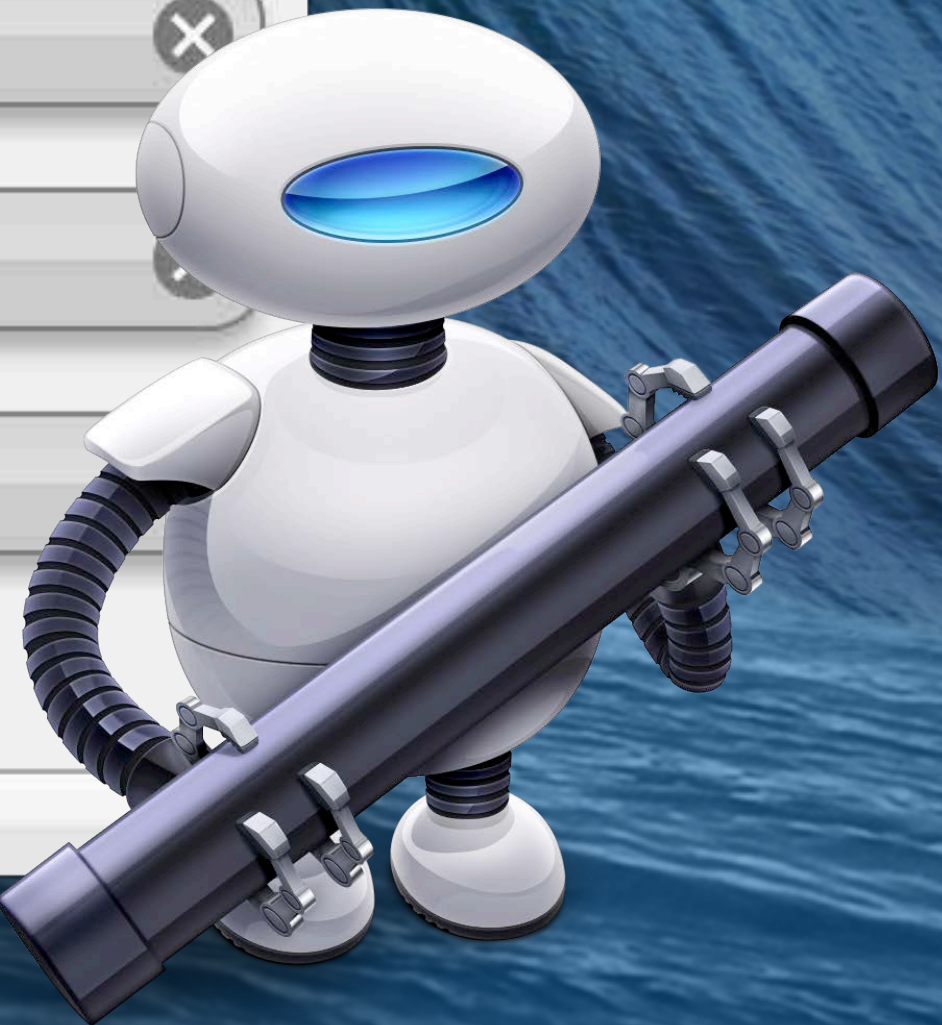
▶ Encode Media (480P HQ)

▶ Rename Finder Items: Add Text (Append 480P to Name)

▶ Get Value of Variable (Retrieve Original Input)

▶ Encode Media (720P HQ)

▶ Rename Finder Items: Add Text (Append 720P to Name)



Demo

Code Signing

Chris Nebel
Senior Automation Engineer

Code Signing

Applets and Droplets



- Automator and AppleScript applets/droplets are applications

Code Signing

Applets and Droplets



- Automator and AppleScript applets/droplets are applications
- Code Sign for default Gatekeeper compatibility

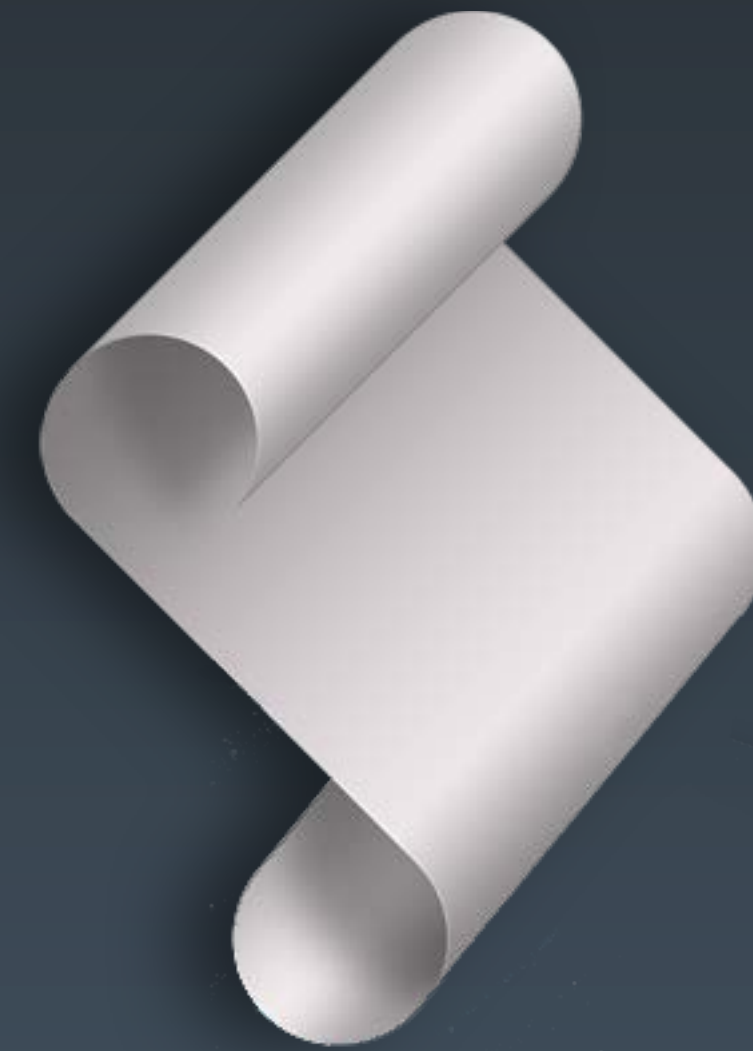
Code Signing

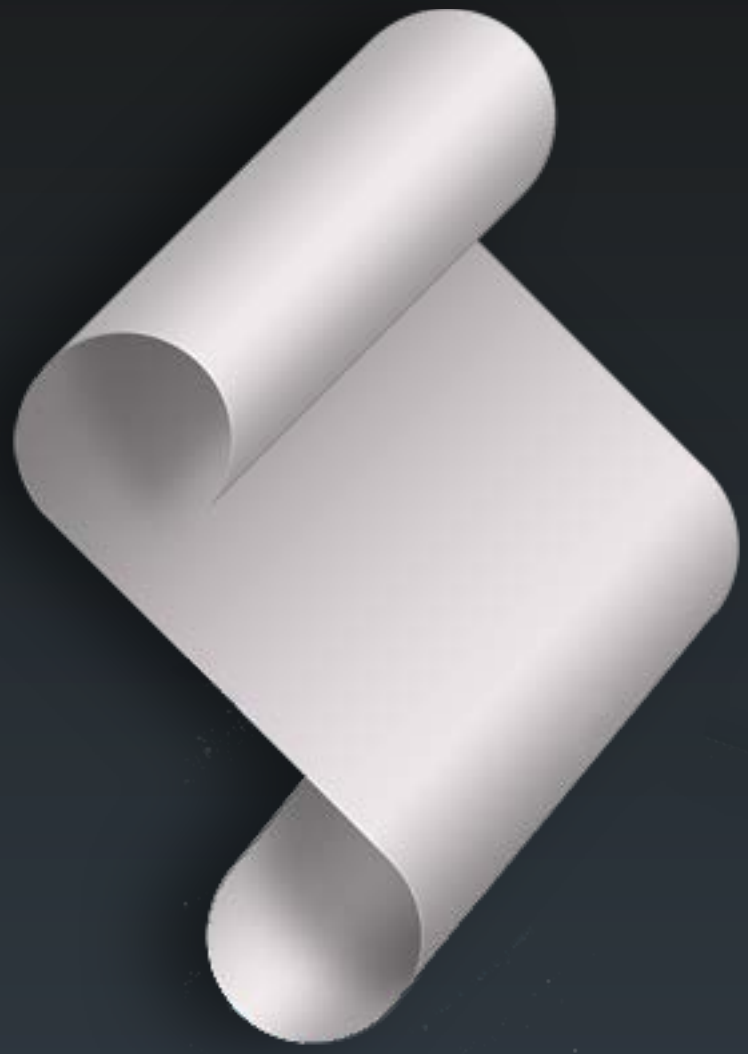
Applets and Droplets



- Automator and AppleScript applets/droplets are applications
- Code Sign for default Gatekeeper compatibility
- Integrated signing support in AppleScript Editor and Automator

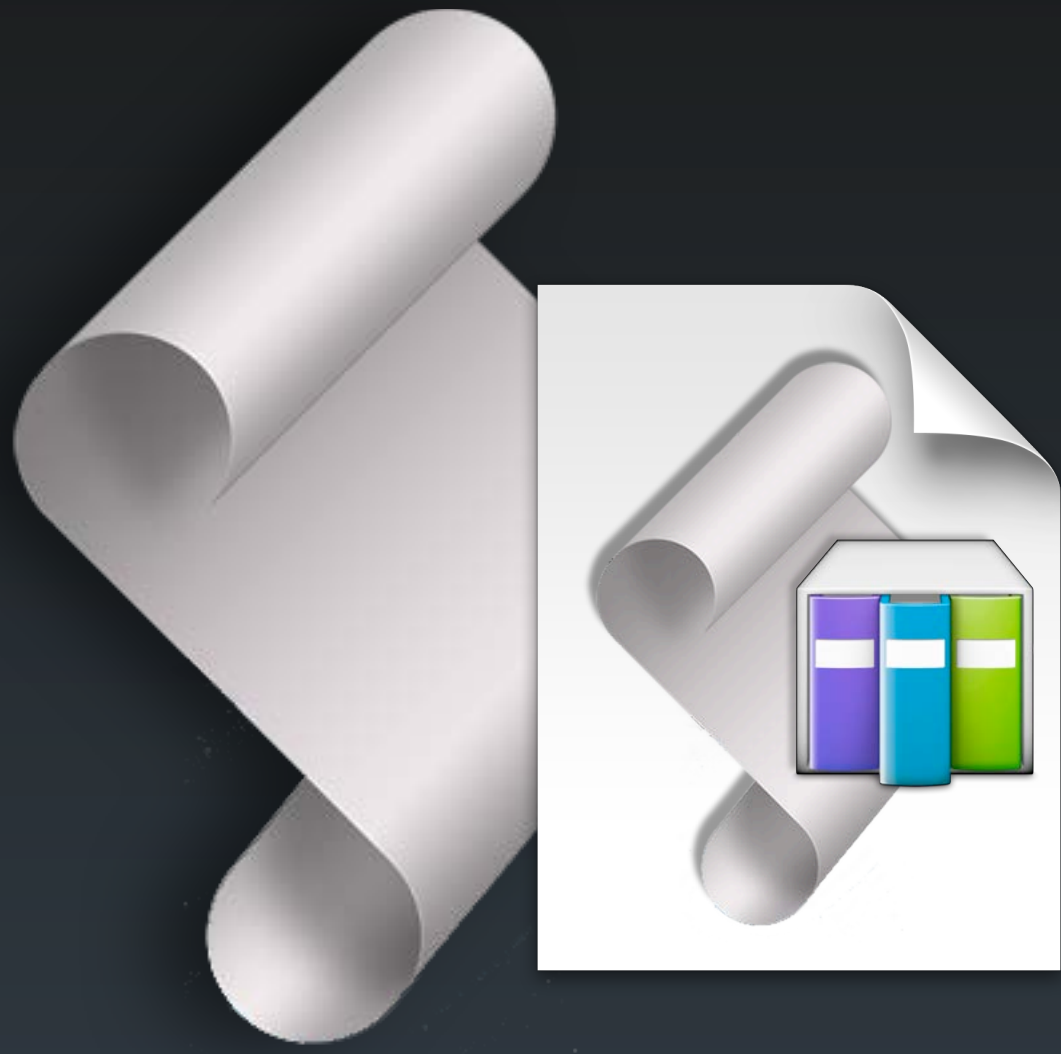
Extending the power of AppleScript





AppleScript Libraries

Extending the power of AppleScript



AppleScript Libraries

Extending the power of AppleScript

Why Libraries?

You'll like AppleScript Libraries if you...

Why Libraries?

You'll like AppleScript Libraries if you...

- Use the same script routines in multiple scripts

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You'll like AppleScript Libraries if you...

- Use the same script routines in multiple scripts
- Rely on scripting additions for “missing commands”

Why Libraries?

You'll like AppleScript Libraries if you...

- Use the same script routines in multiple scripts
- Rely on scripting additions for “missing commands”
- Want to simplify your scripts

Why Libraries?

You'll like AppleScript Libraries if you...

- Use the same script routines in multiple scripts
- Rely on scripting additions for “missing commands”
- Want to simplify your scripts

```
on findAndReplaceStringInText(sourceText, searchString, replacementString)
    set the sourceString to -
        current application's NSString's stringWithString_(sourceText)
    set the adjustedString to the sourceString's -
        stringByReplacingOccurrencesOfString_withString_(searchString, replacementString)
    return (adjustedString as Unicode text)
end findAndReplaceStringInText
```


Why Libraries?

You'll like AppleScript Libraries if you...

- Use the same script routines in multiple scripts
- Rely on scripting additions for “missing commands”
- Want to simplify your scripts

```
on findAndReplaceStringInText(sourceText, searchString, replacementString)
    set the sourceString to ~
    on findAndReplaceStringInText(sourceText, searchString, replacementString)
        set the sourceString to ~
        on findAndReplaceStringInText(sourceText, searchString, replacementString)
            set the sourceString to ~
            on findAndReplaceStringInText(sourceText, searchString, replacementString)
                set the sourceString to ~
                current application's NSString's stringWithString_(sourceText)
                set the adjustedString to the sourceString's ~
                    stringByReplacingOccurrencesOfString_withString_(searchString, replacementString)
                return (adjustedString as Unicode text)
            end findAndReplaceStringInText
        end findAndReplaceStringInText
    end findAndReplaceStringInText
end findAndReplaceStringInText
```


Why Libraries?

You'll like AppleScript Libraries if you...

- Use the same script routines in multiple scripts
- Rely on scripting additions for “missing commands”
- Want to simplify your scripts

```
on findAndReplaceStringInText(sourceText, searchString, replacementString)
    set the sourceString to -
```

```
on findAndReplaceStringInText(sourceText, searchString, replacementString)
    set the sourceString to -
```

```
on trimWhiteSpaceAroundString(sourceText)
    set the sourceString to -
        current application's NSString's stringWithString_(sourceText)
    set the trimmedCocoaString to -
        sourceString's stringByTrimmingCharactersInSet_(current application's
        NSCharacterSet's whitespaceCharacterSet)
    return (trimmedCocoaString as Unicode text)
end trimWhiteSpaceAroundString
```

```
ng, replacementString)
```

```
hString, replacementString)
```

```
tringWithString_(sourceText)
```

```
ng's -
```

```
ng_withString_(searchString, replacementString)
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        sourceString's stringByTrimmingCharactersInSet_(current application's
        whitespaceCharacterSet)
    return (trimmedCocoaString as Unicode text)
end trimWhiteSpaceAroundString
```

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on trimWhiteSpaceAroundString(sourceText)
    set the sourceString to -
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    set the trimmedCocoaString to -
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        whitespaceCharacterSet)
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end trimWhiteSpaceAroundString
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```
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```

```
text)
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application's
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AppleScript Libraries

New in OS X

AppleScript Libraries

New in OS X



AppleScript Libraries

New in OS X



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AppleScript Libraries

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New in OS X



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 - Publish their own Scripting Terminology (Dictionary)
- New *Script Library reference* automatically locates libraries
- The new *use* clause automatically loads a library for global access

AppleScript Libraries

Creating a Simple AppleScript Library

AppleScript Libraries

Creating a Simple AppleScript Library

```
on changeCaseOfText(sourceText, caseIndicator)
    if caseIndicator is 0 then
        set the comparisonCharacters to "ABCDEFGHIJKLMNOPQRSTUVWXYZ"
        set the sourceCharacters to "abcdefghijklmnopqrstuvwxyz"
    else
        set the comparisonCharacters to "abcdefghijklmnopqrstuvwxyz"
        set the sourceCharacters to "ABCDEFGHIJKLMNOPQRSTUVWXYZ"
    end if
    set the newText to ""
    repeat with thisCharacter in sourceText
        set x to the offset of thisCharacter in the comparisonCharacters
        if x is not 0 then
            set the newText to -
                (the newText & character x of the sourceCharacters) as string
        else
            set the newText to (the newText & thisCharacter) as string
        end if
    end repeat
    return the newText
end changeCaseOfText
```




Untitled — Edited

 Record

 Stop

 Run

 Compile

 Bundle Contents

AppleScript <No selected element>

```
on changeCaseOfText(sourceText, caseIndicator)
    if caseIndicator is 0 then
        set the comparisonCharacters to "ABCDEFGHIJKLMNOPQRSTUVWXYZ"
        set the sourceCharacters to "abcdefghijklmnopqrstuvwxyz"
    else
        set the comparisonCharacters to "abcdefghijklmnopqrstuvwxyz"
        set the sourceCharacters to "ABCDEFGHIJKLMNOPQRSTUVWXYZ"
    end if
    set the newText to ""
    repeat with thisCharacter in sourceText
        set x to the offset of thisCharacter in the comparisonCharacters
        if x is not 0 then
            set the newText to ~
                (the newText & character x of the sourceCharacters) as string
        else
            set the newText to (the newText & thisCharacter) as string
        end if
    end repeat
    return the newText
end changeCaseOfText|
```

Description

Event Log





Record Stop Run Compile

Untitled — Edited



Bundle Contents

AppleScript

<No selected element>

```
on changeCaseOfText(sourceText, caseIndicator)
    if caseIndicator is 0 then
        set the comparisonCharacters to "ABCDEFGHIJKLMNOPQRSTUVWXYZ"
        set the sourceCharacters to "abcdefghijklmnopqrstuvwxyz"
    else
        set the comparisonCharacters to "abcdefghijklmnopqrstuvwxyz"
        set the sourceCharacters to "ABCDEFGHIJKLMNOPQRSTUVWXYZ"
    end if
    set the newText to ""
    repeat with thisCharacter in sourceText
        set x to the offset of thisCharacter in the comparisonCharacters
        if x is not 0 then
            set the newText to ¬
                (the newText & character x of the sourceCharacters) as string
        else
            set the newText to (the newText & thisCharacter) as string
        end if
    end repeat
    return the newText
end changeCaseOfText
```

Description

Event Log



Untitled — Edited

Record

Stop

Run

Compile

Bundle Contents

Save As: Case Change

Script Projects

FAVORITES

Trudy

Library

Applications

Desktop

Documents

Downloads

Movies

Music

Pictures

Name

Date...

Size

File Format: Script

Options:

Show startup screen

Stay open after run handler

☒ Hide extension

New Folder

Cancel

Save

on changeCaseOfText(someText)

if caseIndicator is 0 then

set the newText to "ABCDEFGHIJKLMNOPQRSTUVWXYZ0123456789"

end if

end repeat

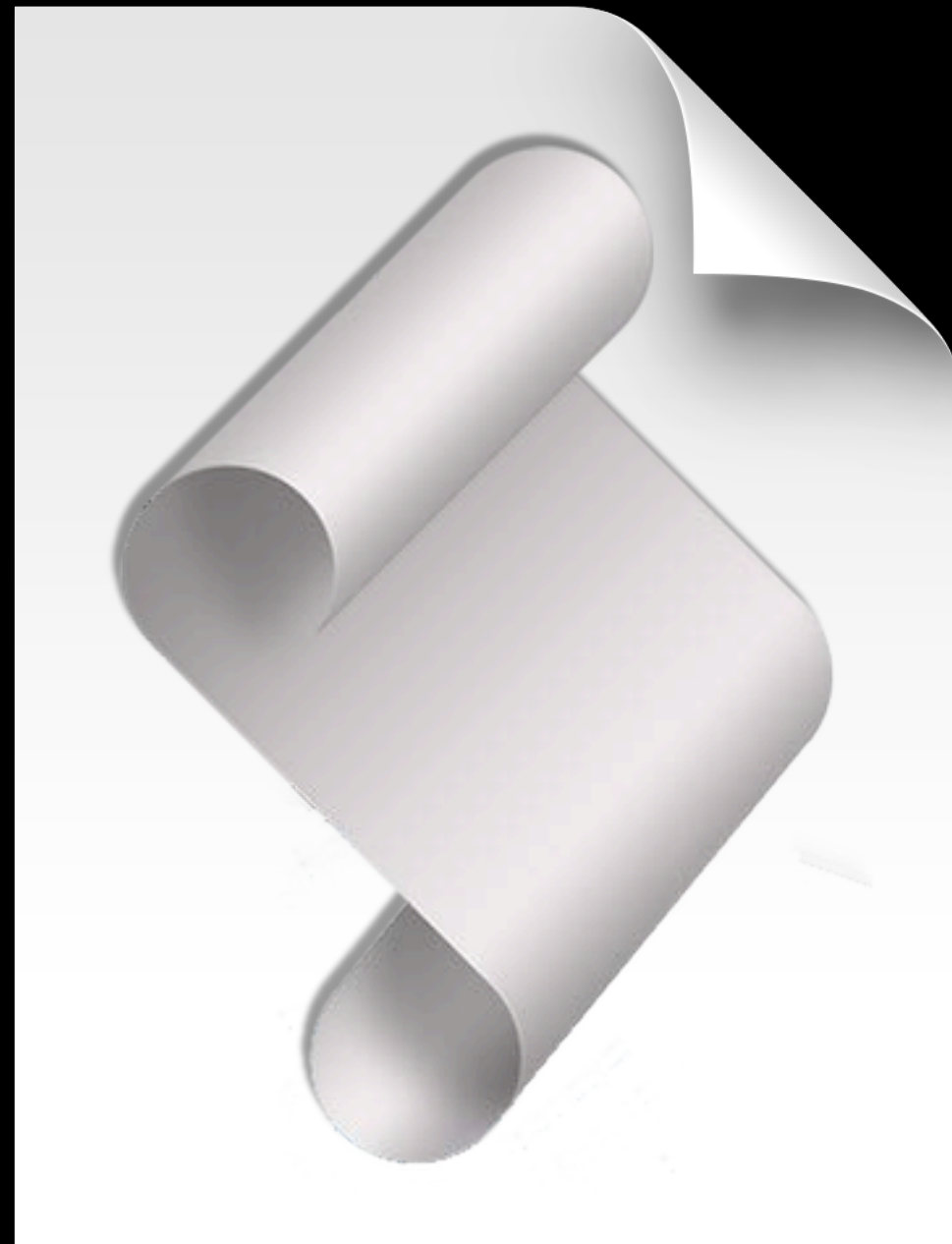
return the newText

end changeCaseOfText

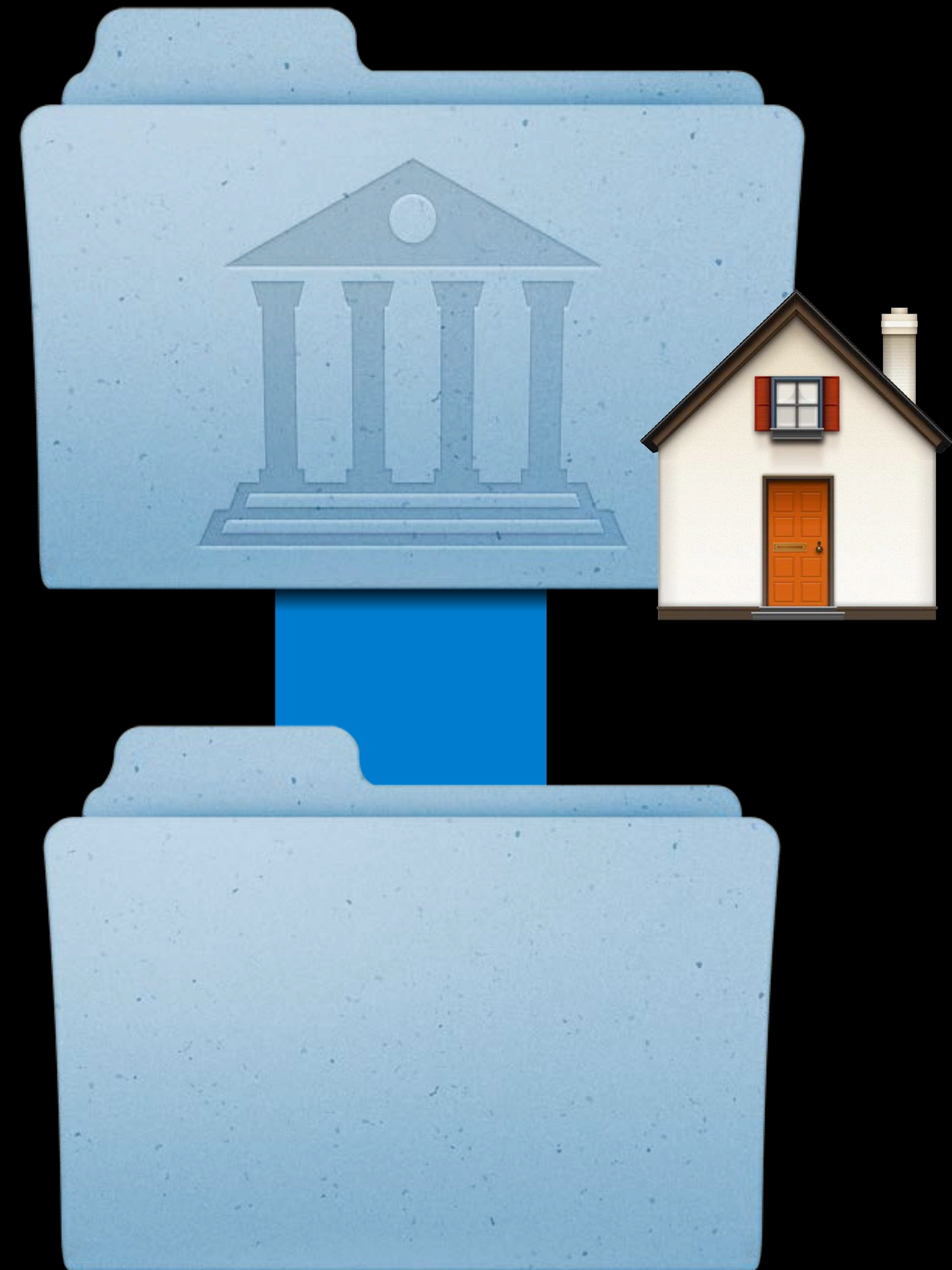




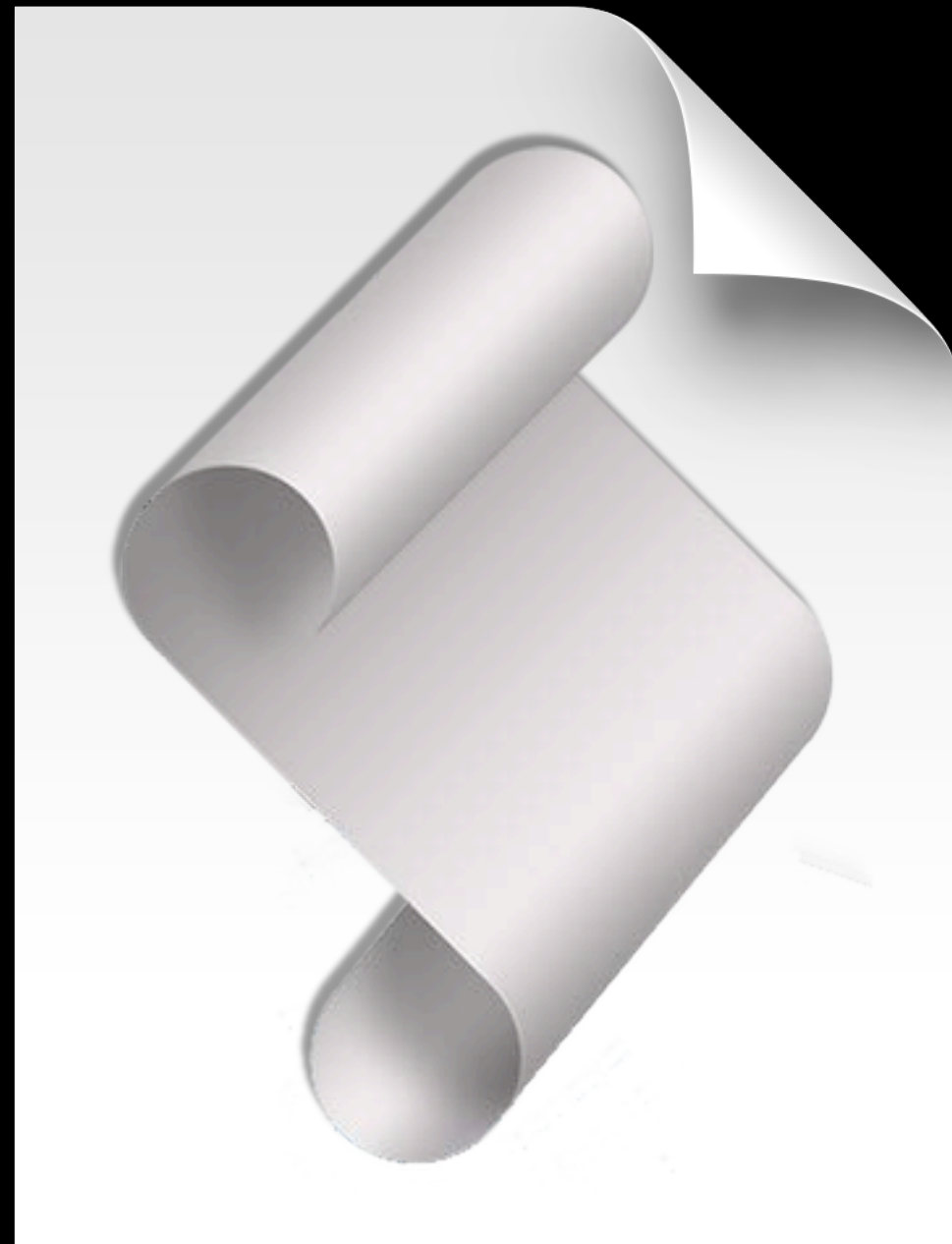




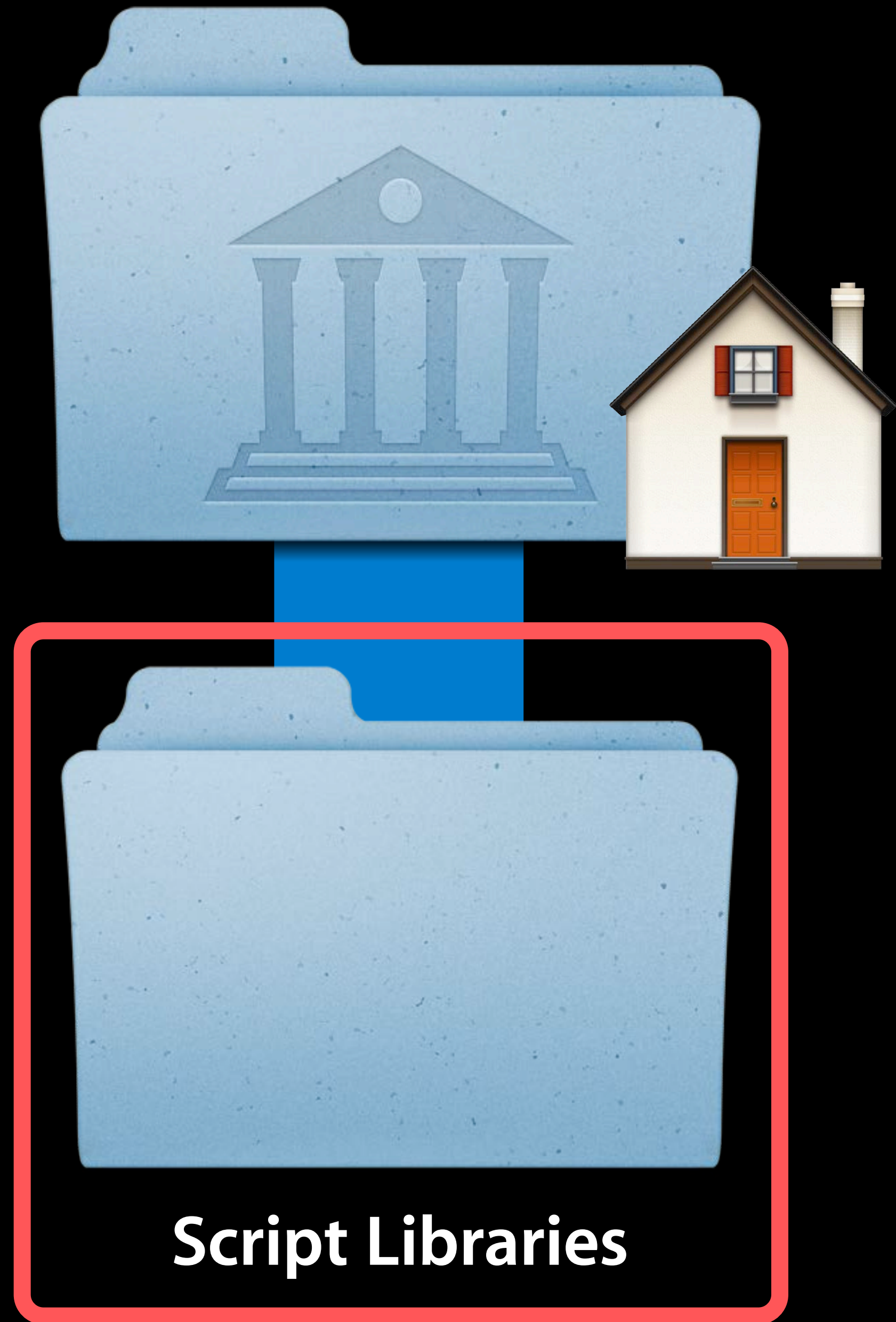
Case Change.scpt



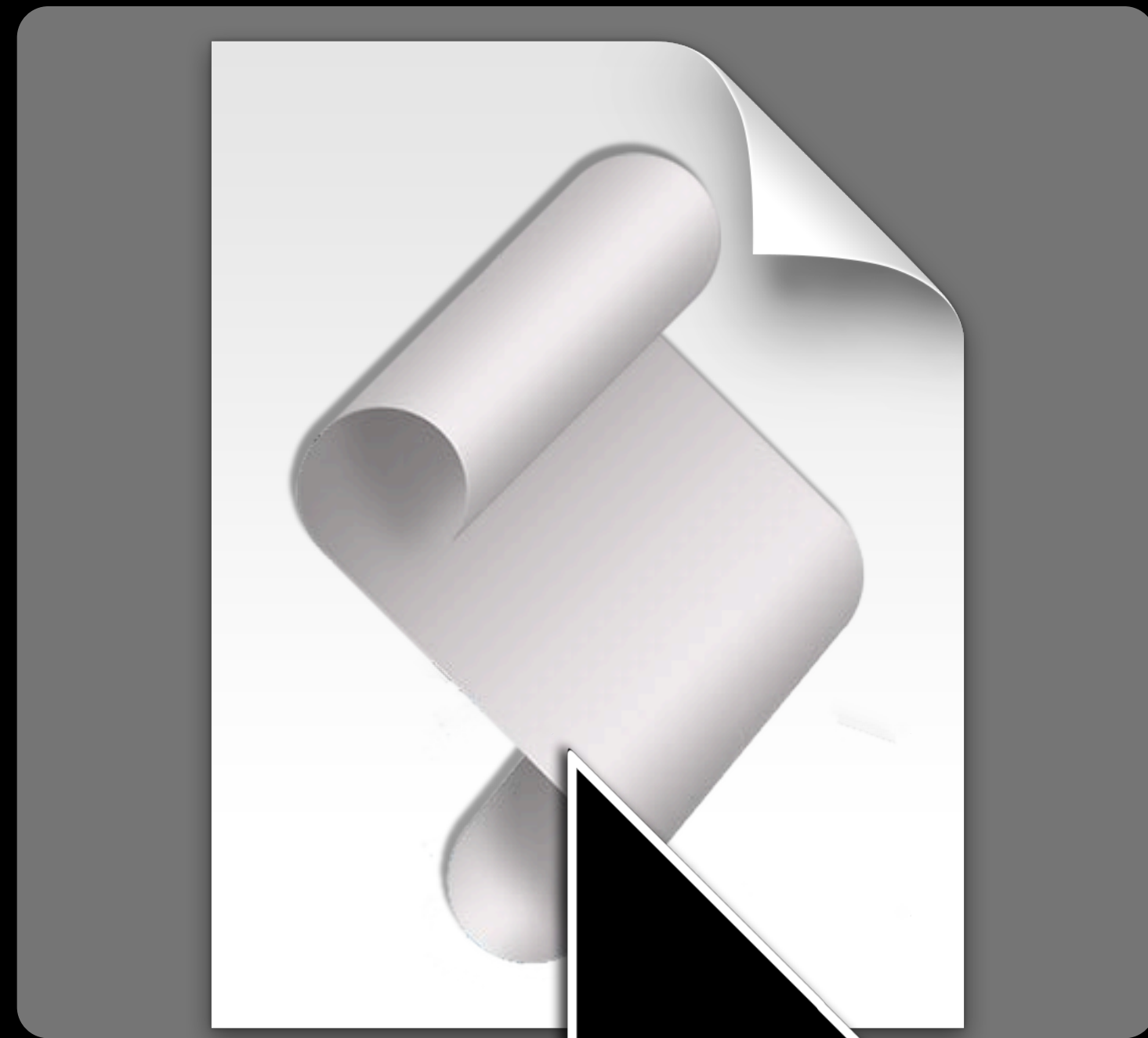
Script Libraries



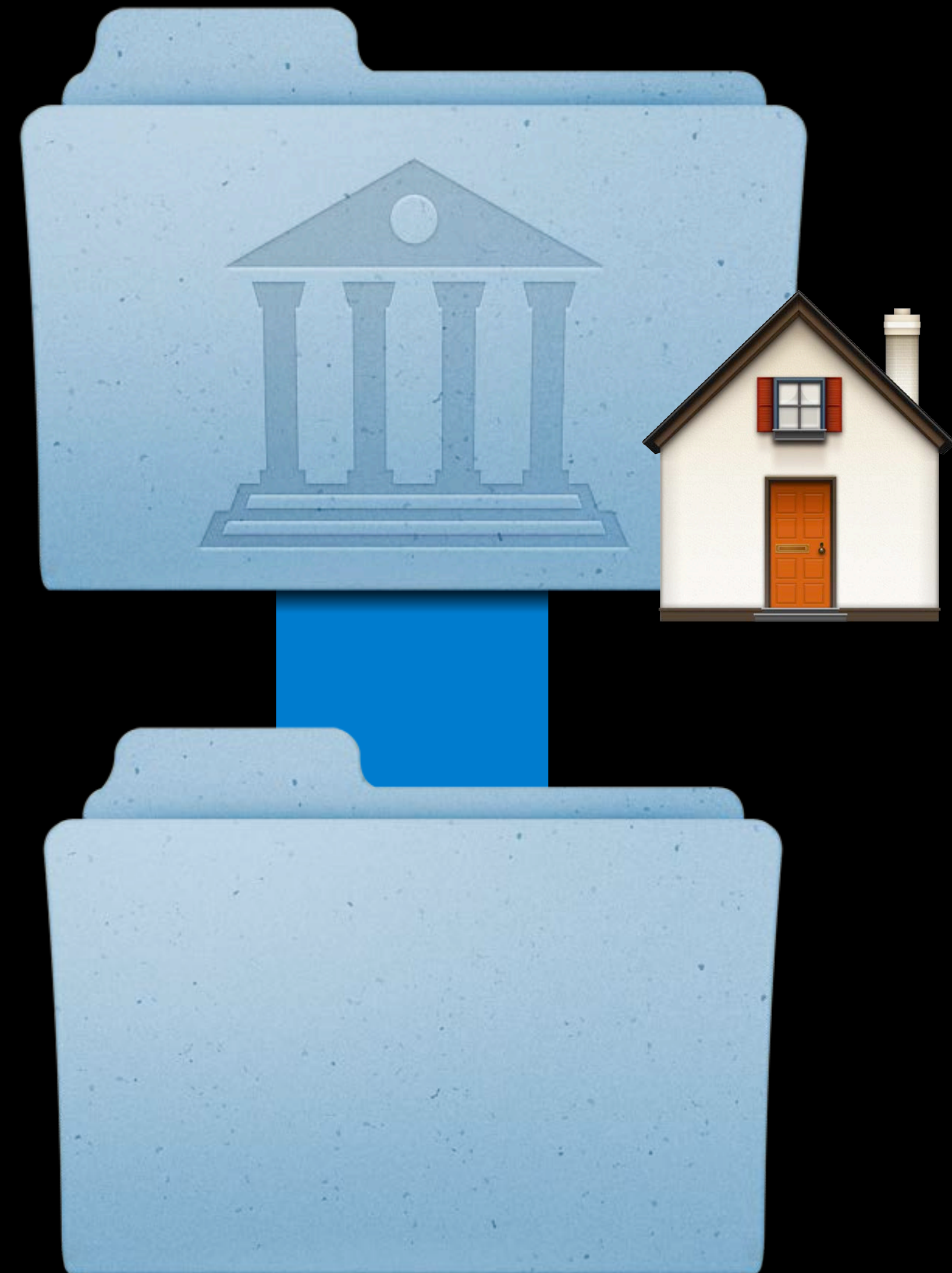
Case Change.scpt



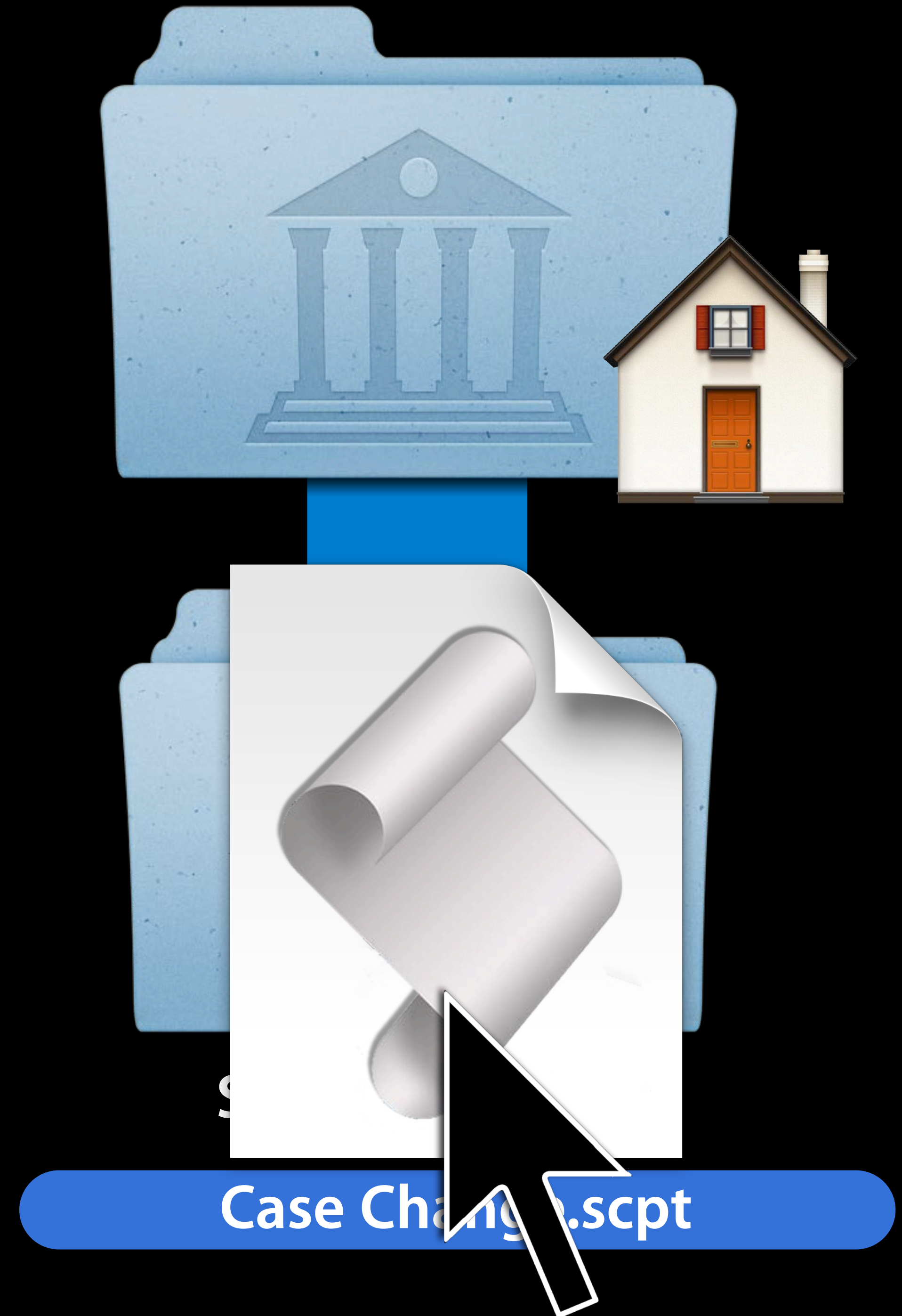
Script Libraries

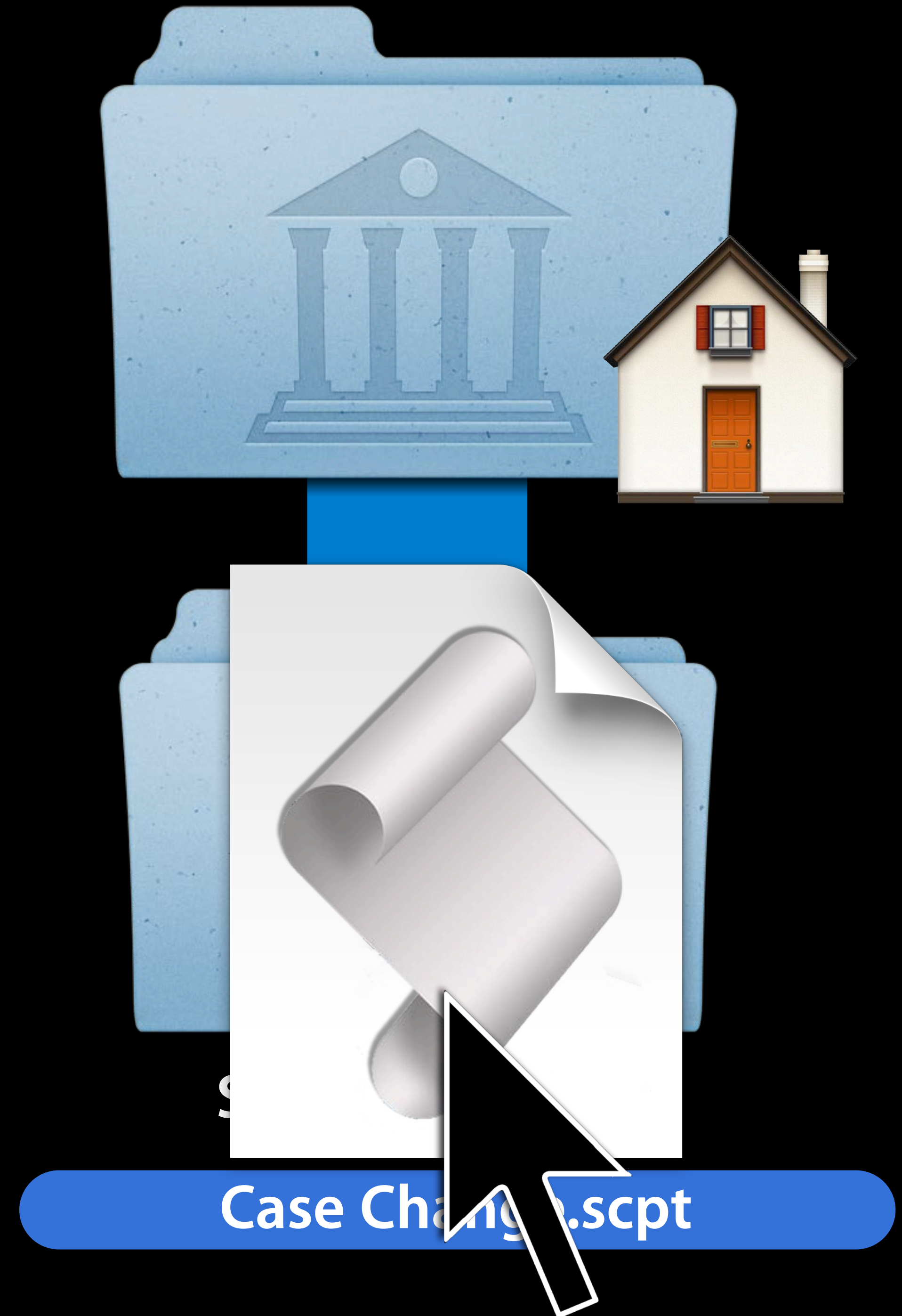


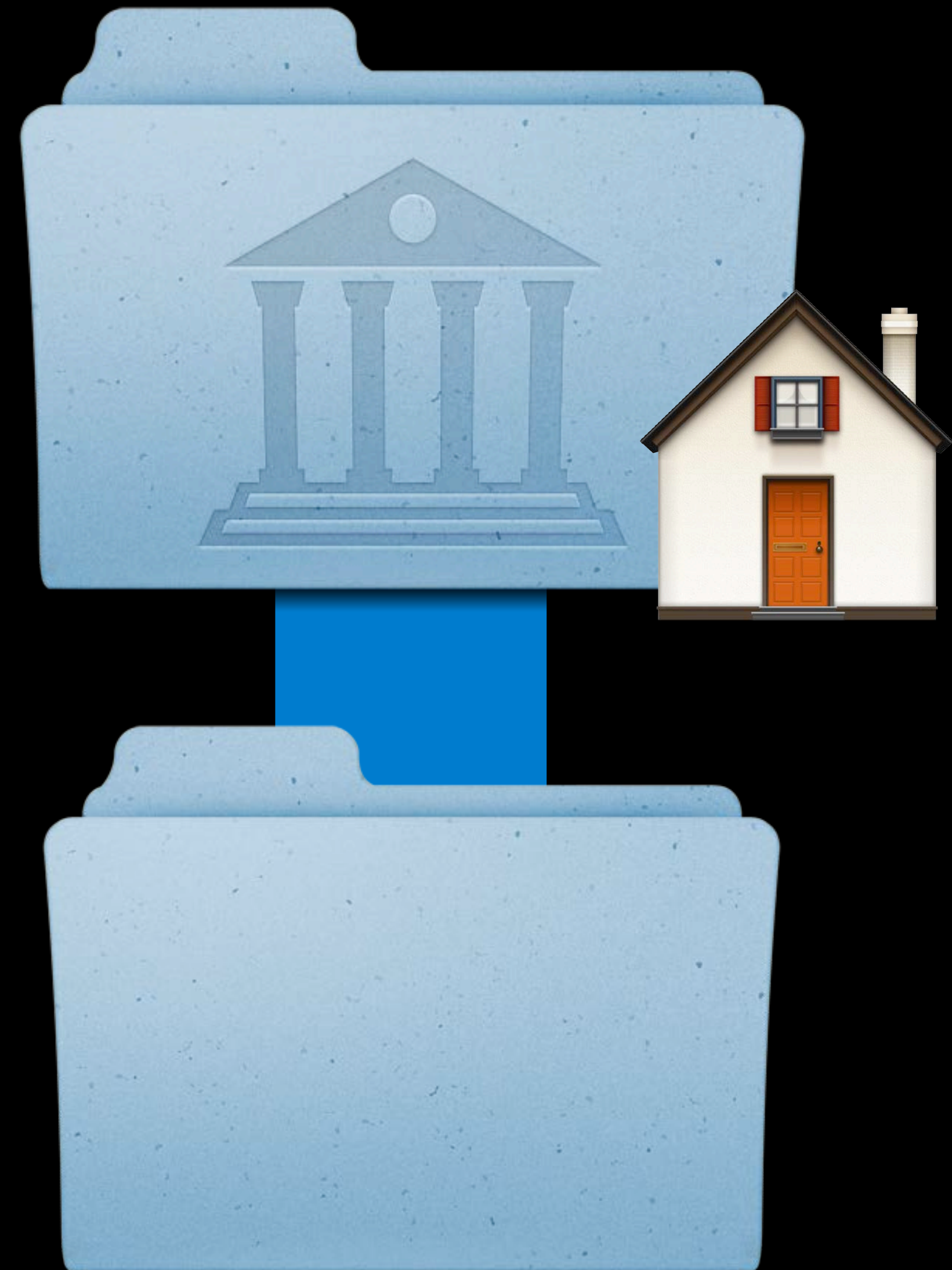
Case Change.scpt



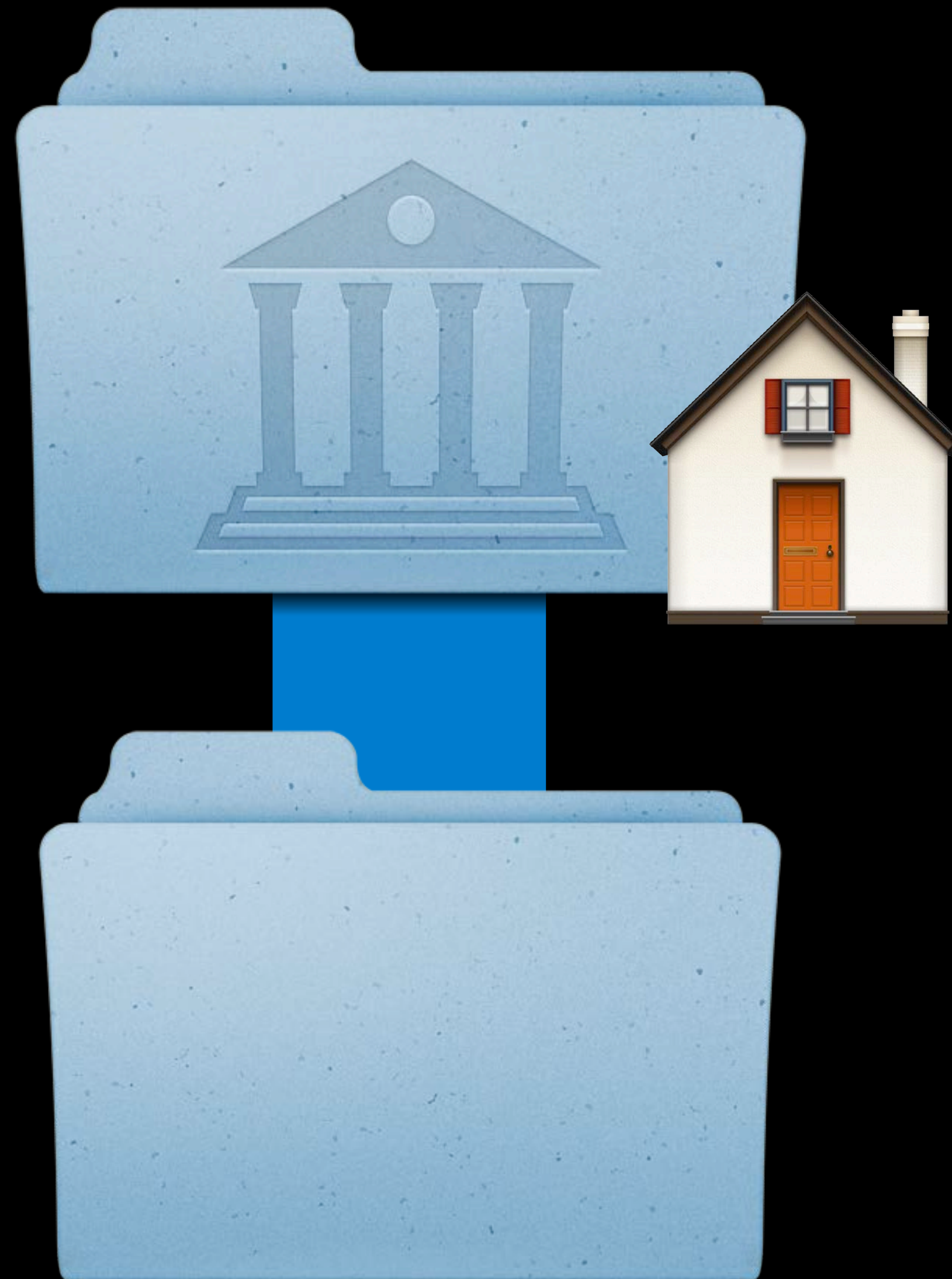
Script Libraries







Script Libraries



Script Libraries



Script Libraries

Untitled

Record

Stop

Run

Compile

Bundle Contents

AppleScript

<No selected element>

Events

Replies

Result

Description

Event Log

Untitled — Edited ▾

Record

Stop

Run

Compile

Bundle Contents

AppleScript ▾

<No selected element> ▾

```
script "Case Change"
```

Events

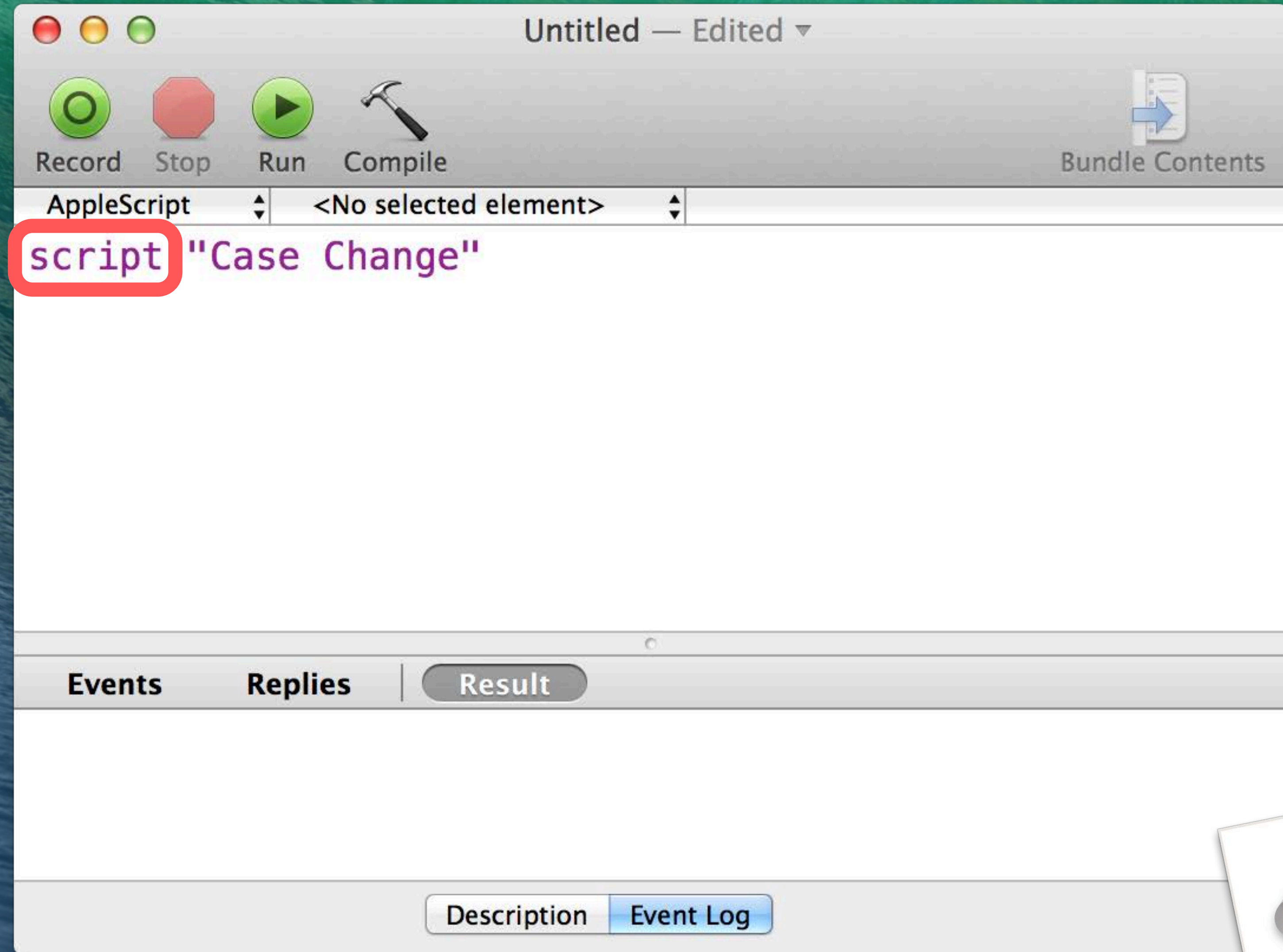
Replies

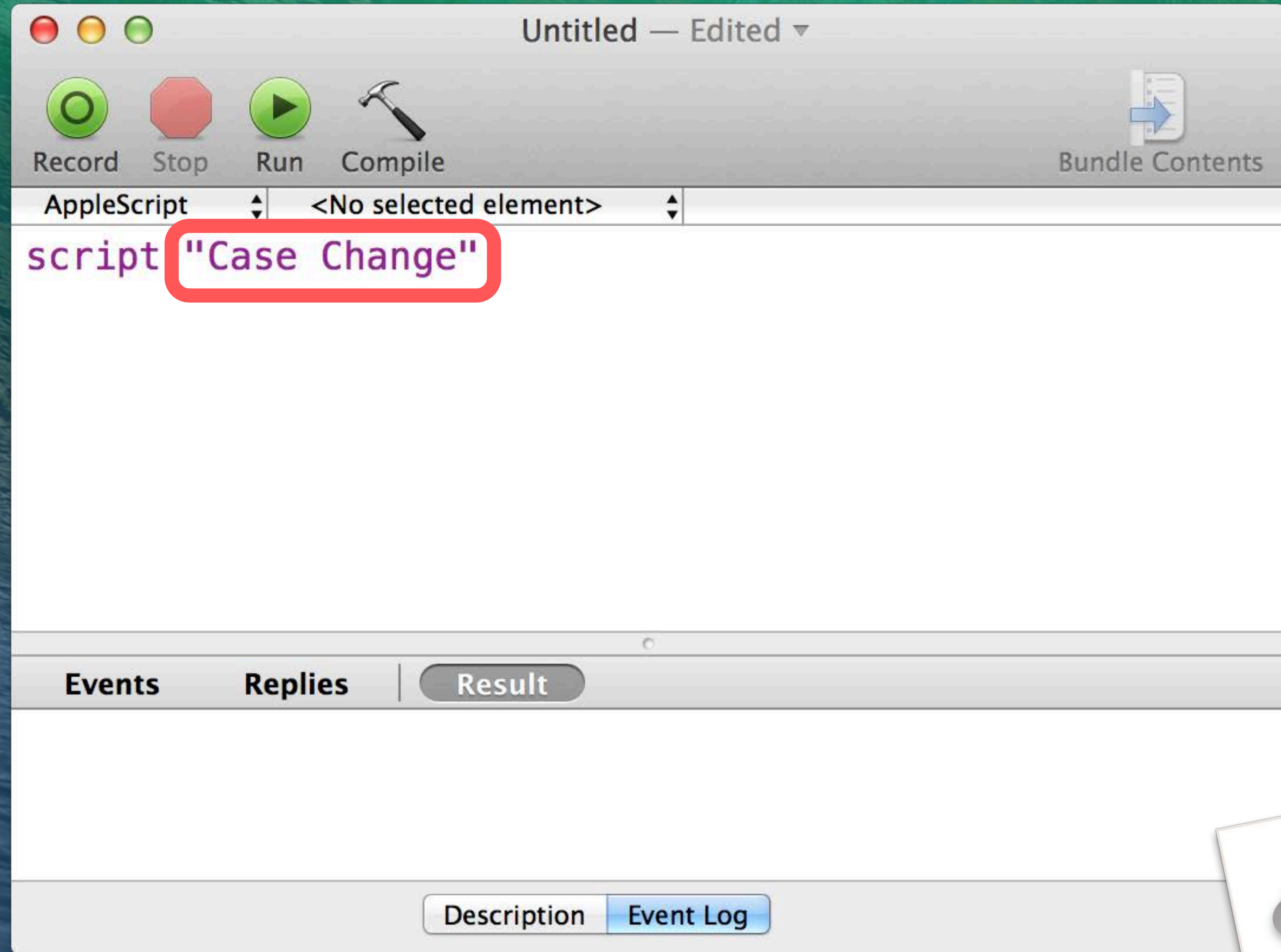
Result

Description

Event Log







Untitled — Edited ▾

Record

Stop

Run

Compile

Bundle Contents

AppleScript ▾ <No selected element> ▾

script "Case Change"

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Event Log



Untitled — Edited ▾

Record

Stop

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Bundle Contents

AppleScript ▾ <No selected element> ▾

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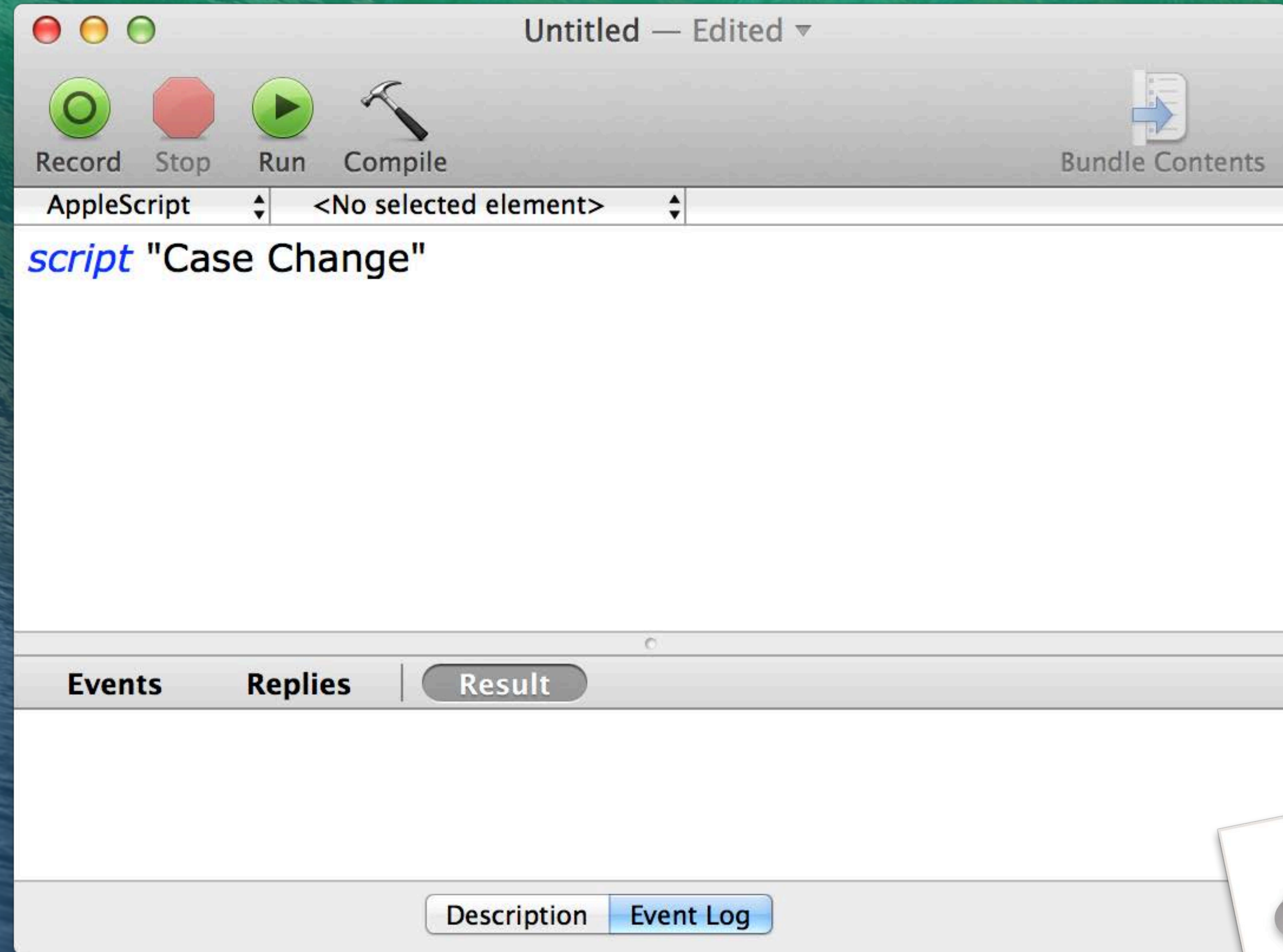
Replies

Result

Description

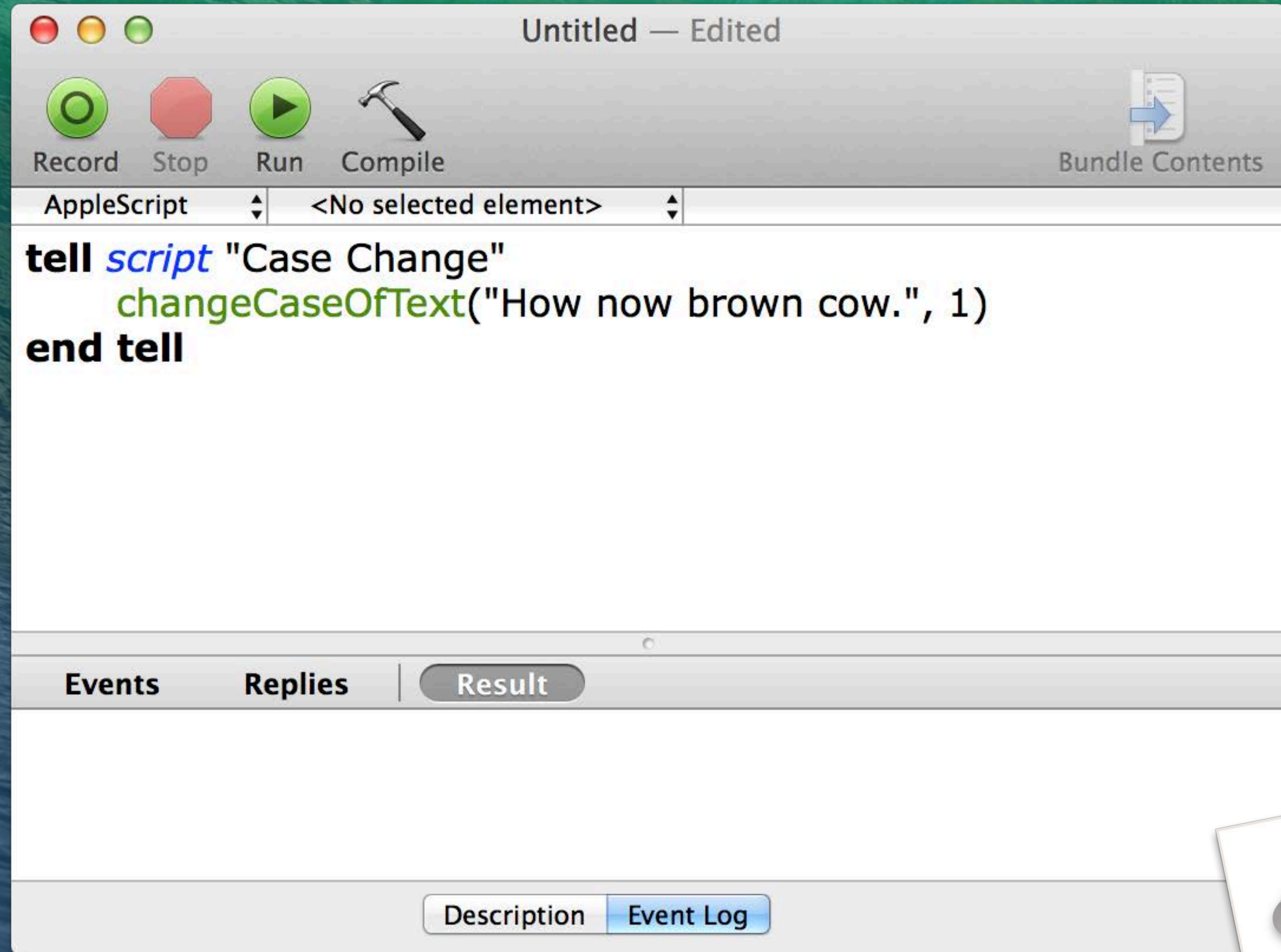
Event Log





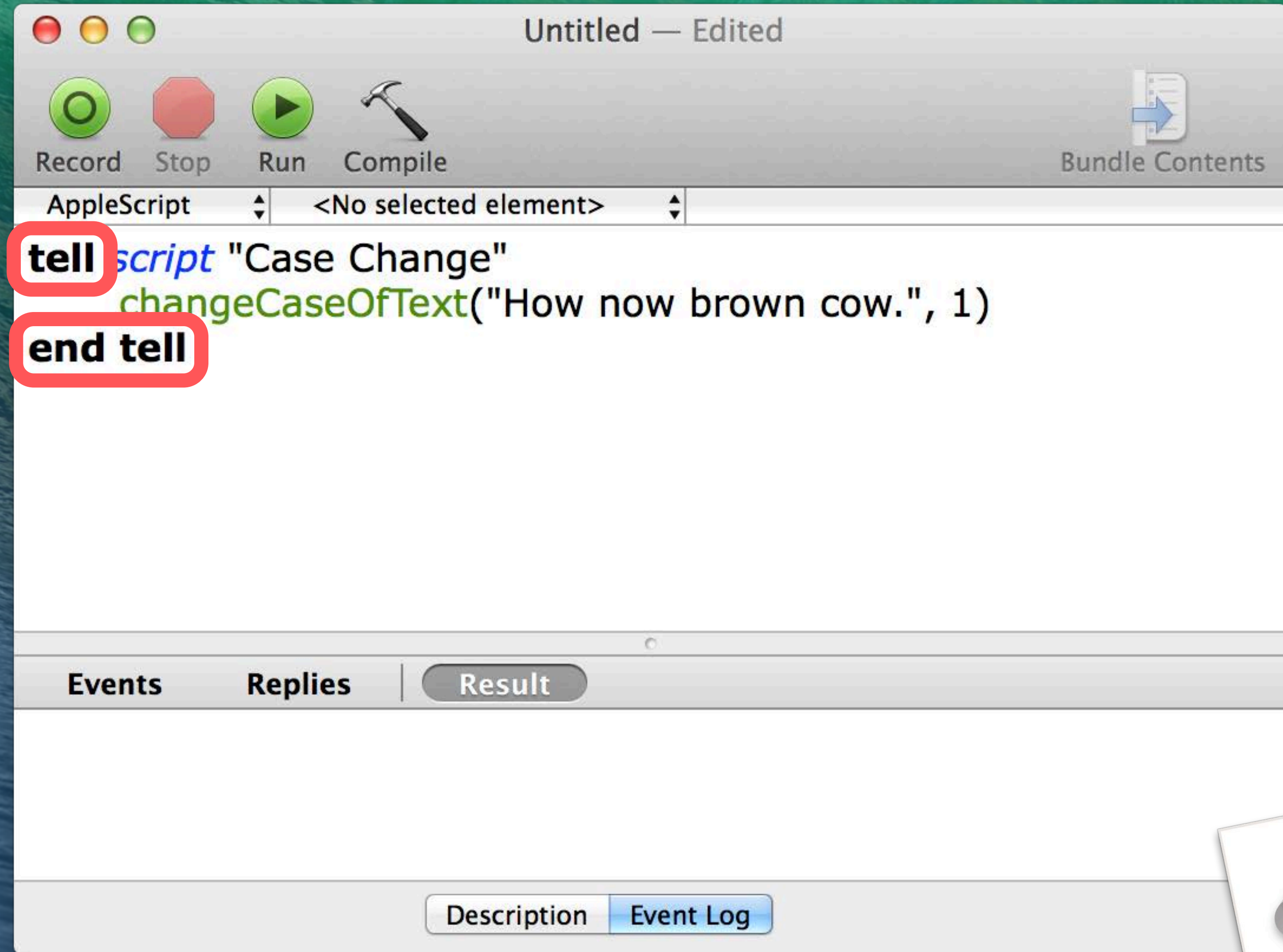
Script Library Identifier





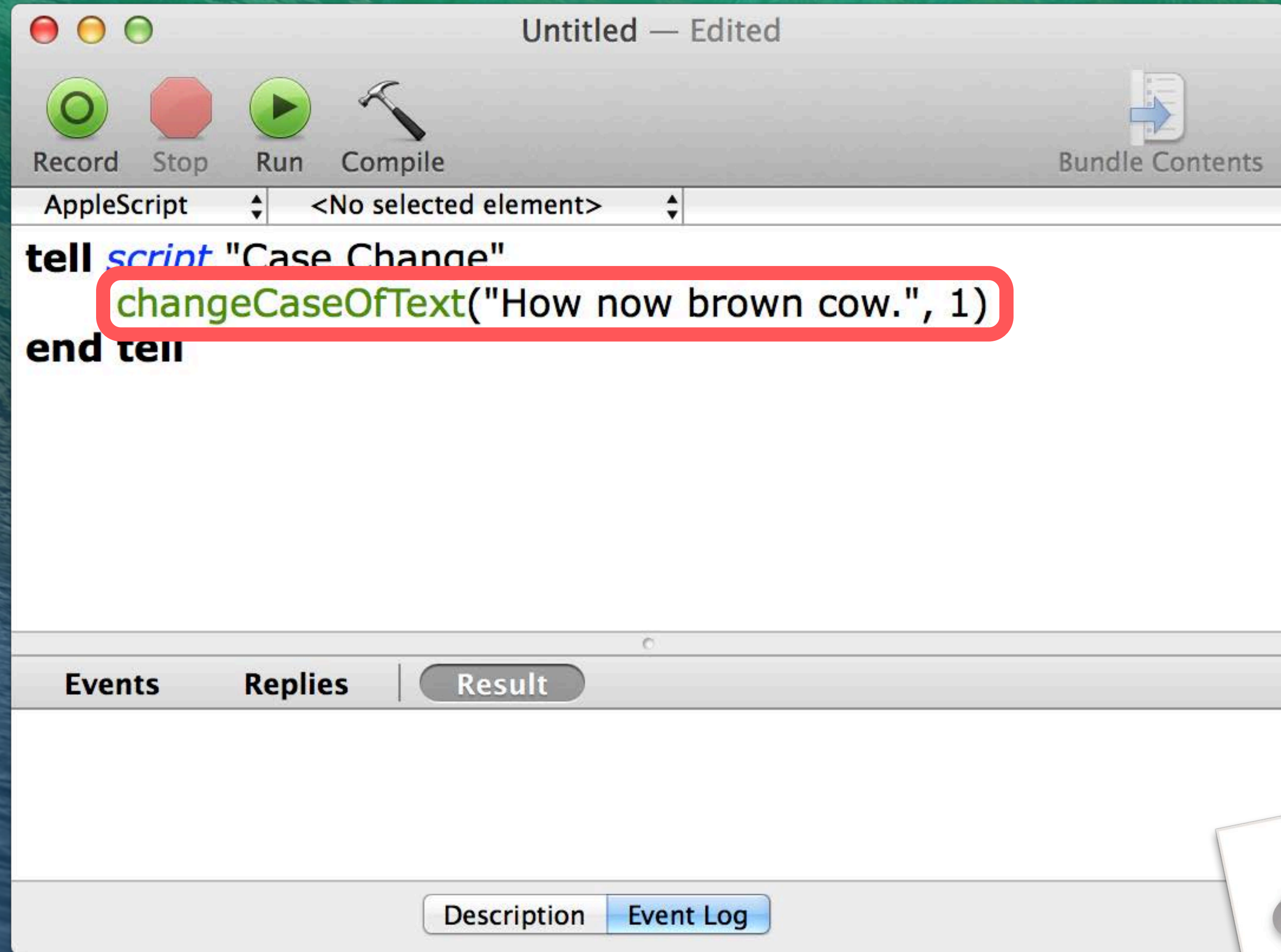
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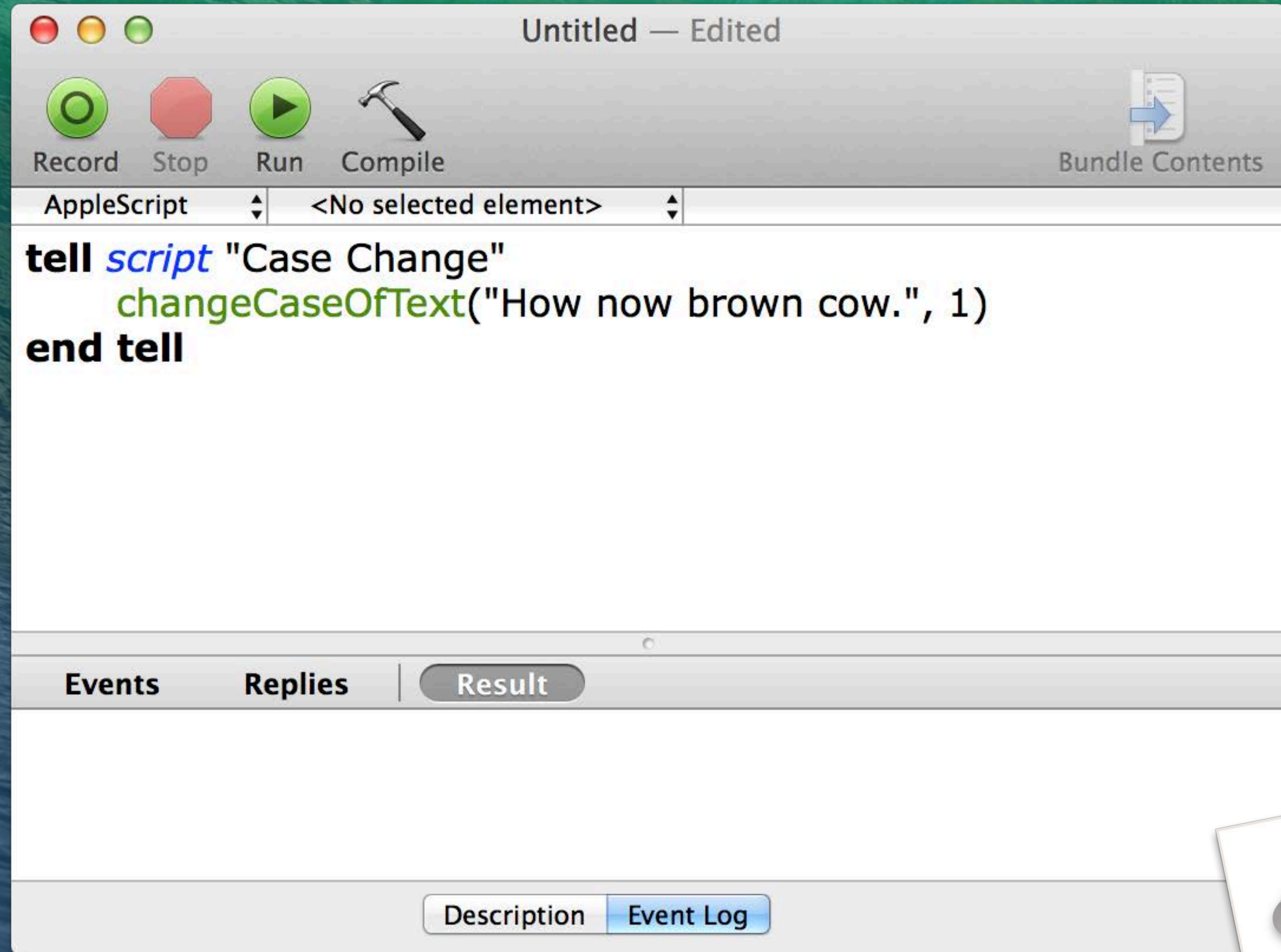
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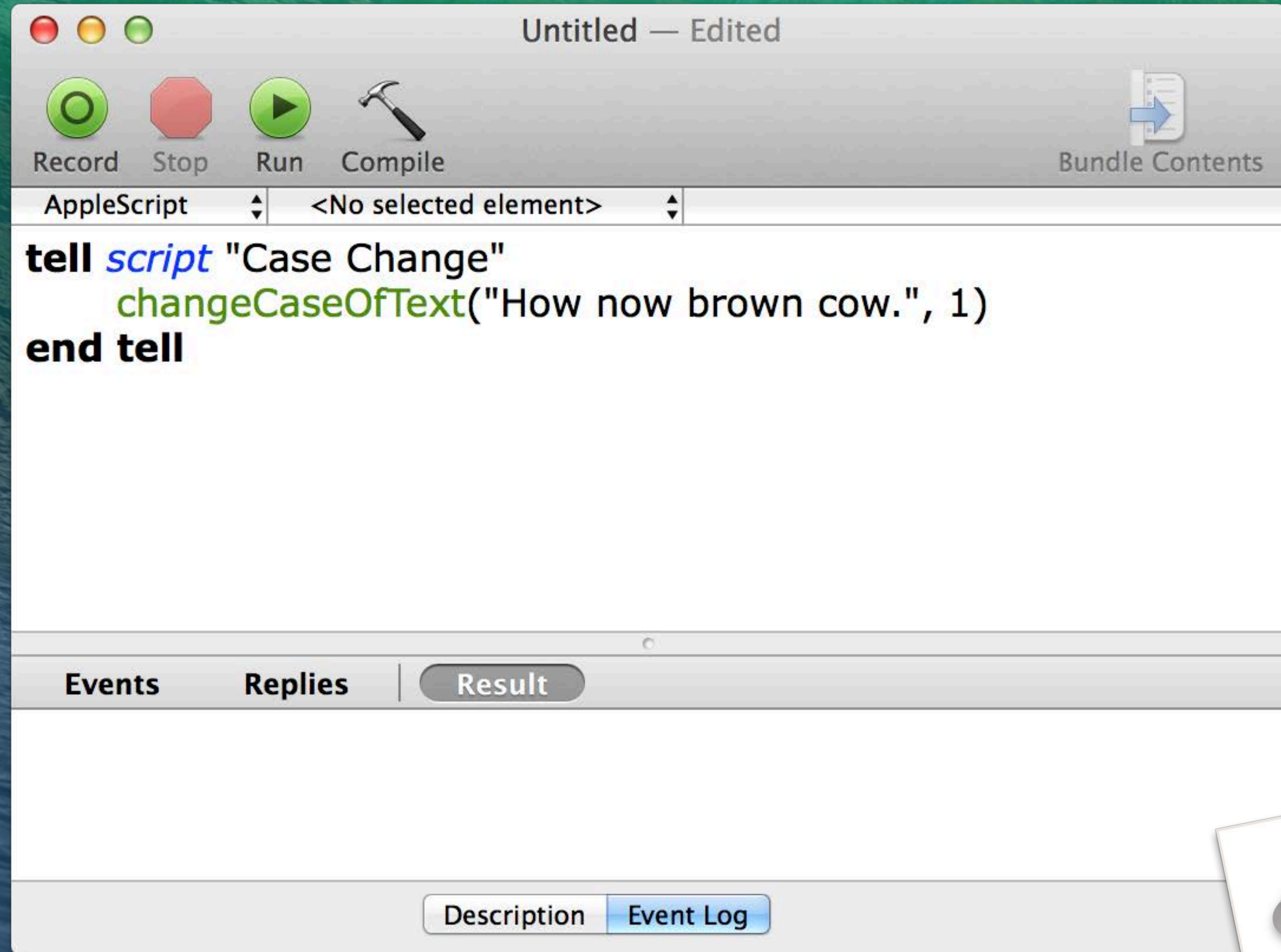
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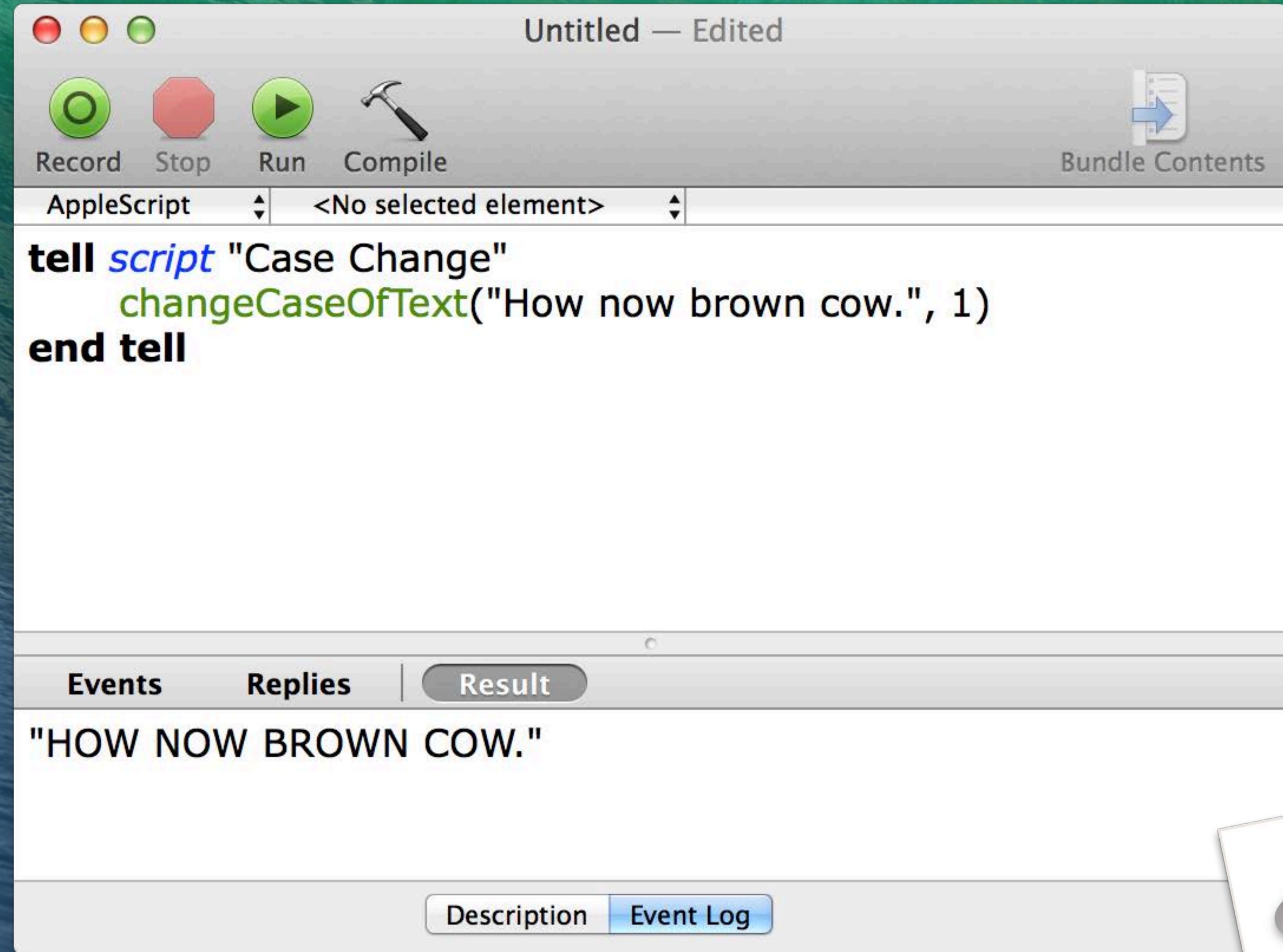
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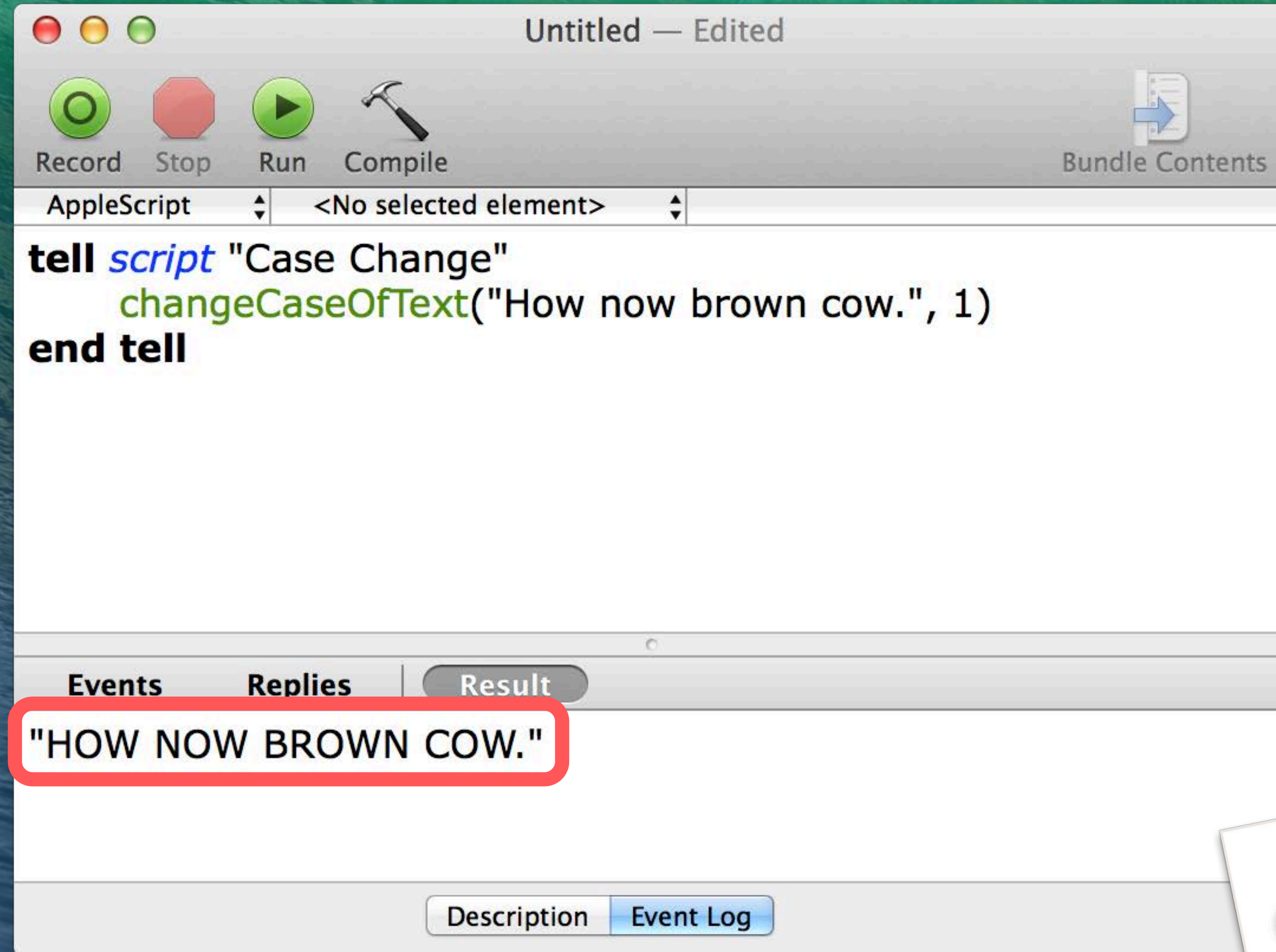


Script Library Identifier





Script Library Identifier



Script Library Identifier

AppleScript Text Utilities.sdef

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Terminology

Search

Back/ForwardText SizeViewPrint

AppleScript Text Utilities▶

transform text
replace text

AppleScript Text Utilities

Commands for editing text

transform text *v* : Transform the targeted text

transform text text : The text to transform
to lower case/upper case/word case : The transformation to apply

Apply a text transformation to the targeted text. For example, change the case of the targeted text to upper case.

set the **changedText** to **transform text** "How now brown cow." **to** upper case

--> result: "HOW NOW BROWN COW."

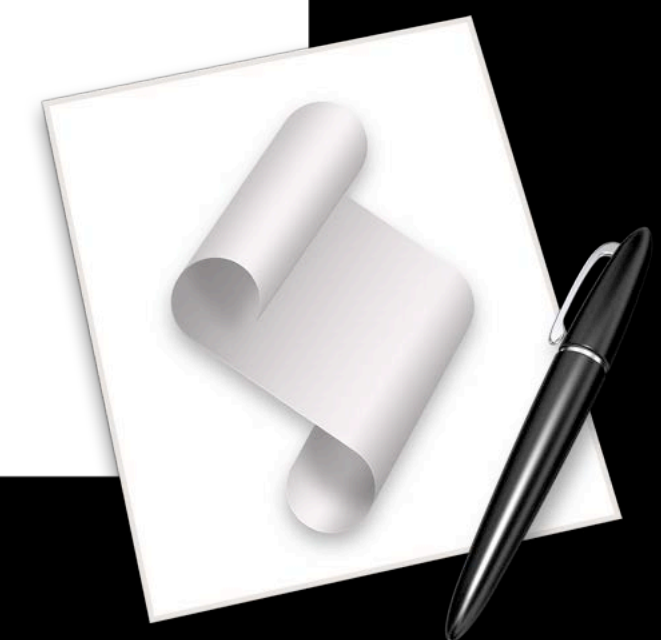
replace text *v* : Replace occurrences of a search string in the targeted text

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set the **changedText** to **replace text** "Sally" **with** "Fred" **in** "See Sally run. Run Sally run!"

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AppleScript Text Utilities.sdef

Back/Forward

Text Size

View

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Terminology

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AppleScript Text Utilities.sdef

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Q Terminology

Back/Forward Text Size View Print Search

S AppleScript Text Utilities ▶

Ⓢ transform text

Ⓢ replace text

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AppleScript Text Utilities.sdef

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Terminology

Back/Forward Text Size View Print Search

S AppleScript Text Utilities ▶

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--> result: "See Fred run. Run Fred run!"

Untitled — Edited

Record

Stop

Run

Compile

Bundle Contents

AppleScript <No selected element>

```
tell script "Case Change"  
    changeCaseOfText("How now brown cow.", 1)  
end tell
```

Events

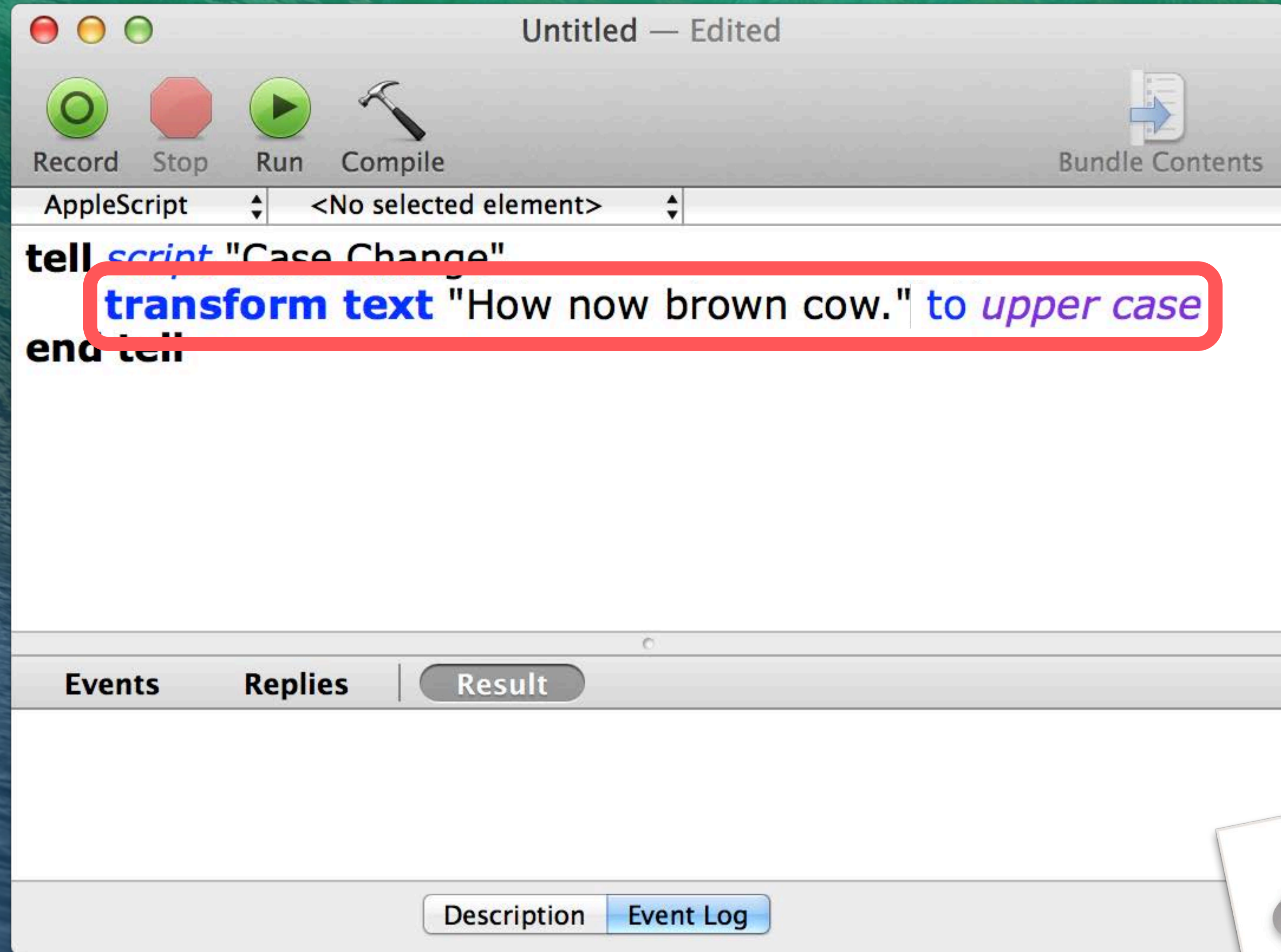
Replies

Result

Description

Event Log





Untitled — Edited

Record Stop Run Compile Bundle Contents

AppleScript <No selected element>

```
tell script "Case Change"  
  transform text "How now brown cow." to upper case  
end tell
```

Events Replies Result

"HOW NOW BROWN COW."

Description Event Log



AppleScript Library

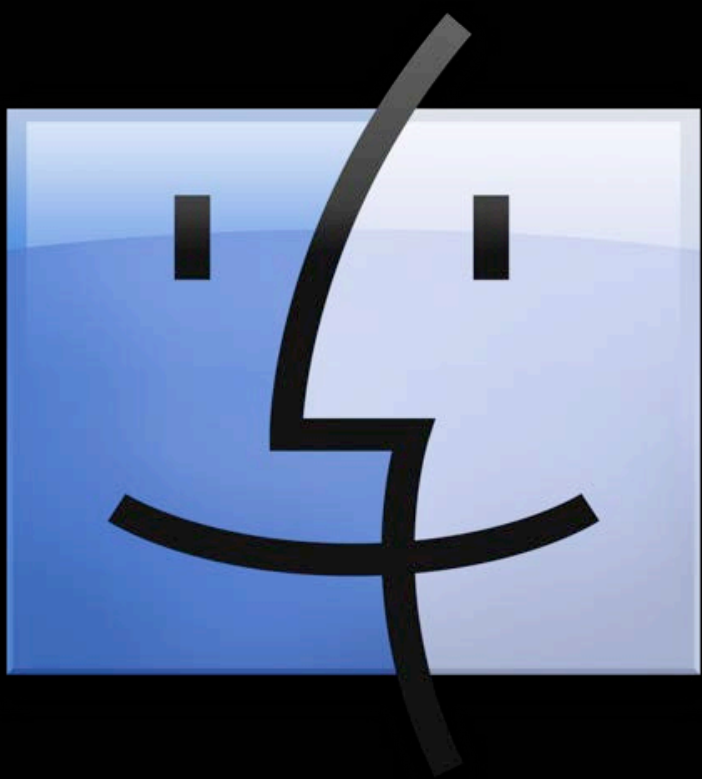
Changing Case of the Names of Selected Finder Items

```
tell application "Finder"
    set the selectedItems to the selection
    repeat with thisItem in the selectedItems
        set thisName to the name of thisItem
        tell script "Case Change"
            set the adjustedName to transform text thisName to upper case
        end tell
        set the name of thisItem to the adjustedName
    end repeat
end tell
```


AppleScript Library

Changing Case of the Names of Selected Finder Items

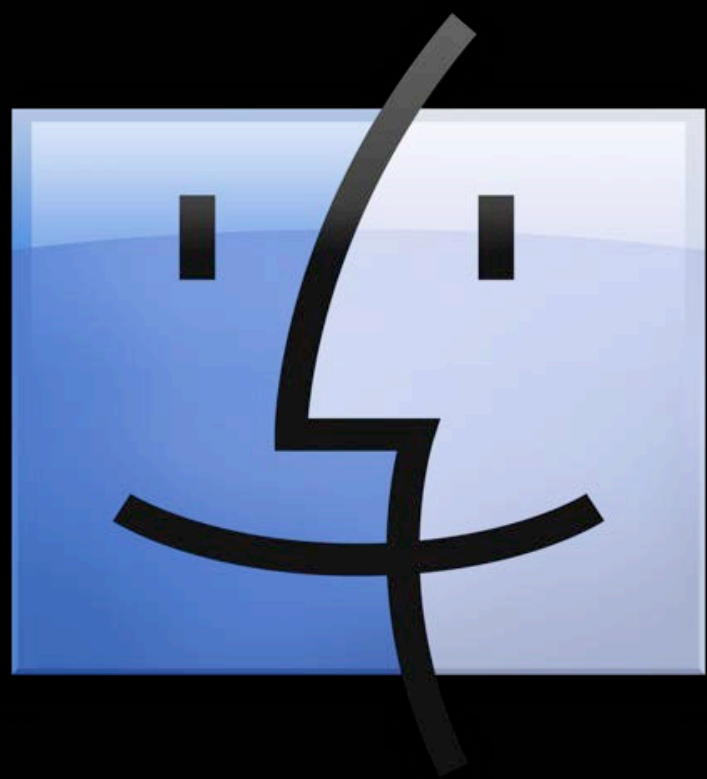
```
tell application "Finder"
    set the selectedItems to the selection
    repeat with thisItem in the selectedItems
        set thisName to the name of thisItem
        tell script "Case Change"
            set the adjustedName to transform text thisName to upper case
        end tell
        set the name of thisItem to the adjustedName
    end repeat
end tell
```



AppleScript Library

Changing Case of the Names of Selected Finder Items

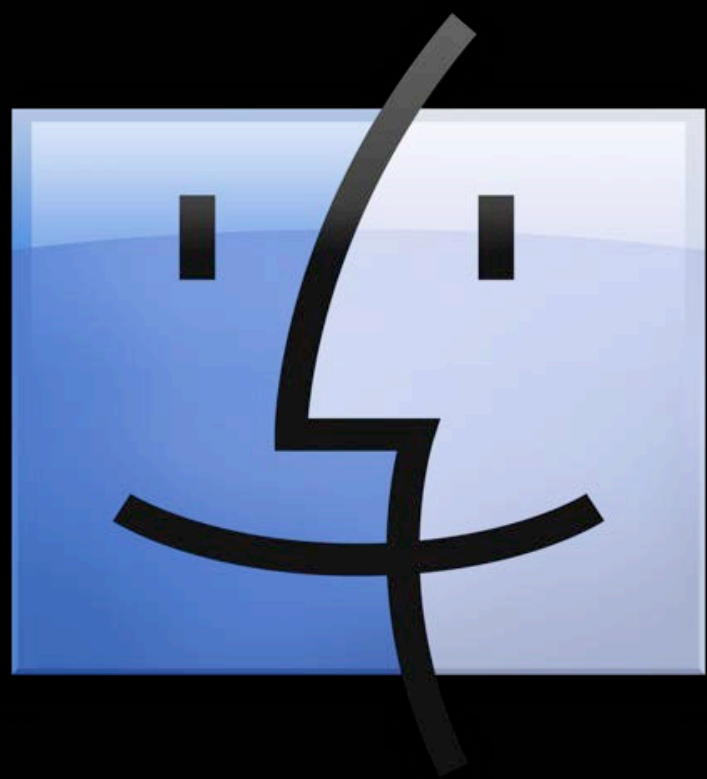
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        set thisName to the name of thisItem
        tell script "Case Change"
            set the adjustedName to transform text thisName to upper case
        end tell
        set the name of thisItem to the adjustedName
    end repeat
end tell
```



AppleScript Library

Changing Case of the Names of Selected Finder Items

```
tell application "Finder"
    set the selectedItems to the selection
    repeat with thisItem in the selectedItems
        set thisName to the name of thisItem
        tell script "Case Change"
            set the adjustedName to transform text thisName to upper case
        end tell
        set the name of thisItem to the adjustedName
    end repeat
end tell
```



edited movies

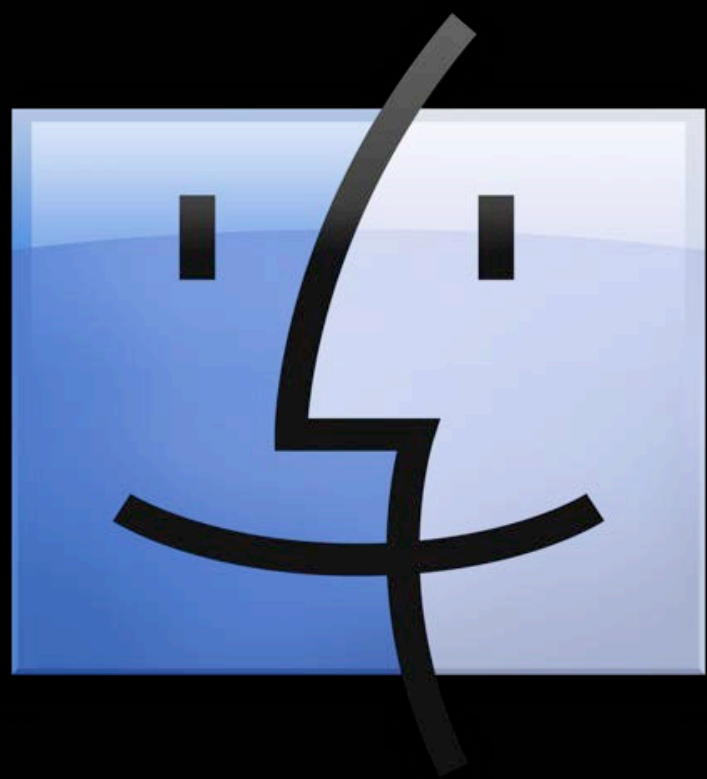


smith project

AppleScript Library

Changing Case of the Names of Selected Finder Items

```
tell application "Finder"
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        set thisName to the name of thisItem
        tell script "Case Change"
            set the adjustedName to transform text thisName to upper case
        end tell
        set the name of thisItem to the adjustedName
    end repeat
end tell
```



EDITED MOVIES

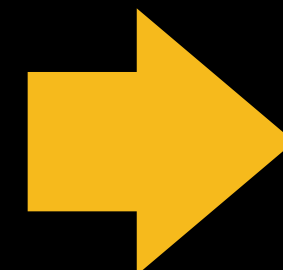
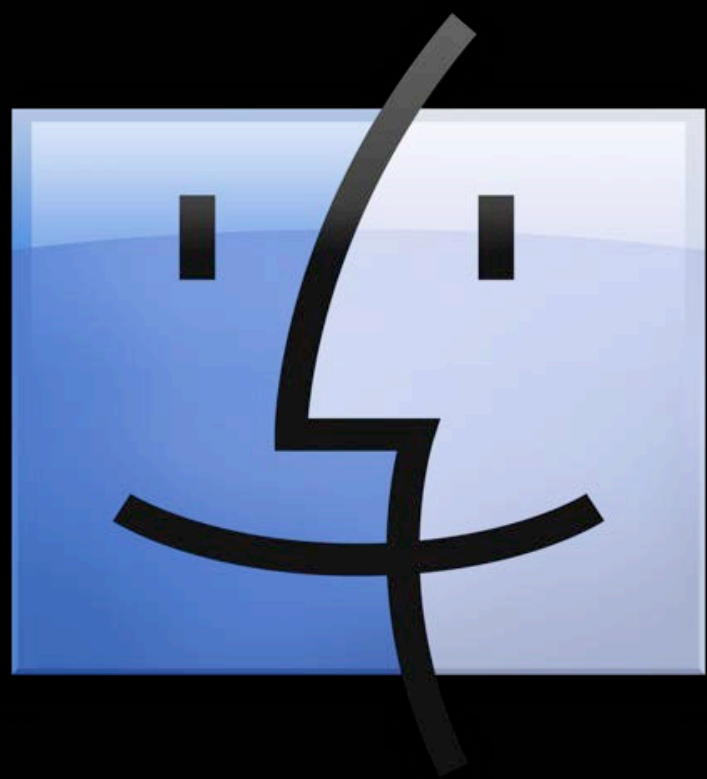


SMITH PROJECT

AppleScript Library

Changing Case of the Names of Selected Finder Items

```
tell application "Finder"
  set the selectedItems to the selection
  repeat with thisItem in the selectedItems
    set thisName to the name of thisItem
    tell script "Case Change"
      set the adjustedName to transform text thisName to upper case
    end tell
    set the name of thisItem to the adjustedName
  end repeat
end tell
```



EDITED MOVIES



SMITH PROJECT

AppleScript Library

Changing Case of the Names of Selected Finder Items

```
tell application "Finder"
    set the selectedItems to the selection
    repeat with thisItem in the selectedItems
        set thisName to the name of thisItem
        tell script "Case Change"
            set the adjustedName to transform text thisName to upper case
        end tell
        set the name of thisItem to the adjustedName
    end repeat
end tell
```


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AppleScript Library

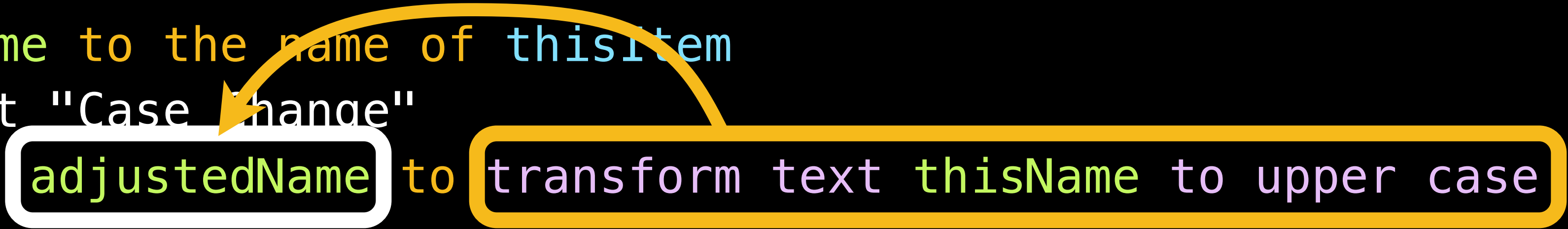
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```

The diagram illustrates the flow of the `adjustedName` variable. A yellow box highlights `adjustedName` in the line `set the adjustedName to transform text thisName to upper case`. An arrow points from this box to another yellow box that also highlights `adjustedName` in the same line. A white box highlights `adjustedName` in the line `set the name of thisItem to the adjustedName`. An arrow points from this white box to the `adjustedName` in the line `set the name of thisItem to the adjustedName`.

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AppleScript Library

New “use” Clause



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end tell
```


AppleScript Library

Without “use” Clause



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AppleScript Library

With “use” Clause



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    end repeat
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AppleScript Library

With “use” Clause



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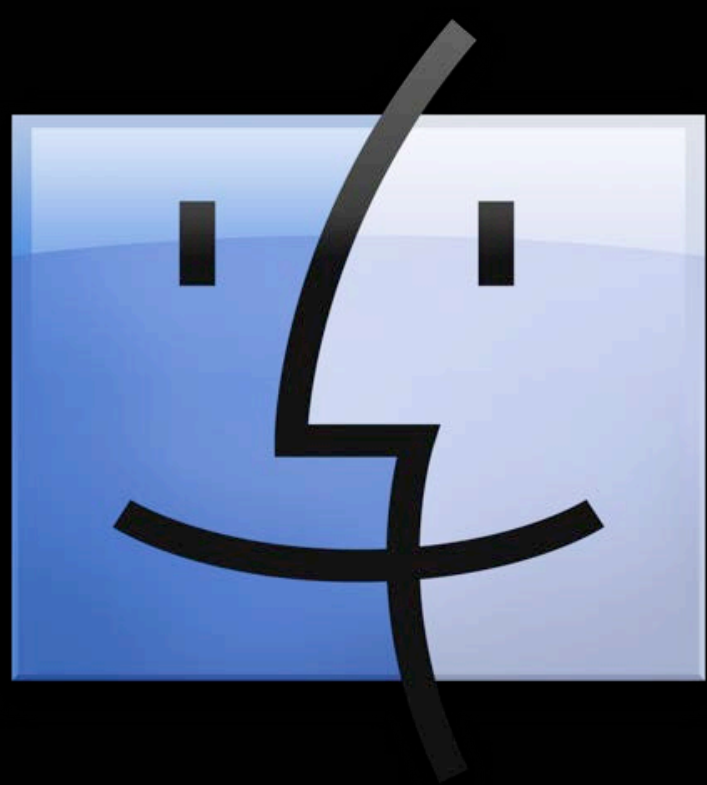
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```
    end repeat
```

```
end tell
```



edited movies



smith project

AppleScript Library

With “use” Clause



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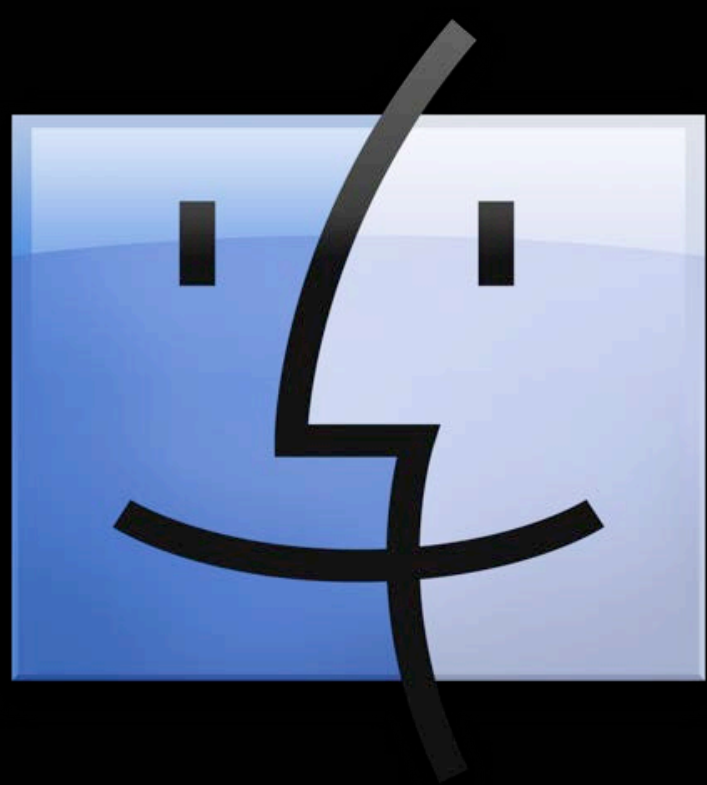
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EDITED MOVIES



SMITH PROJECT

AppleScript Library

With "use" Clause



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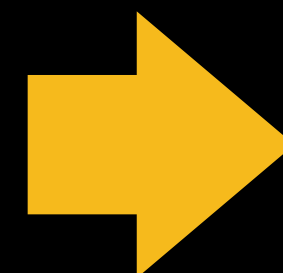
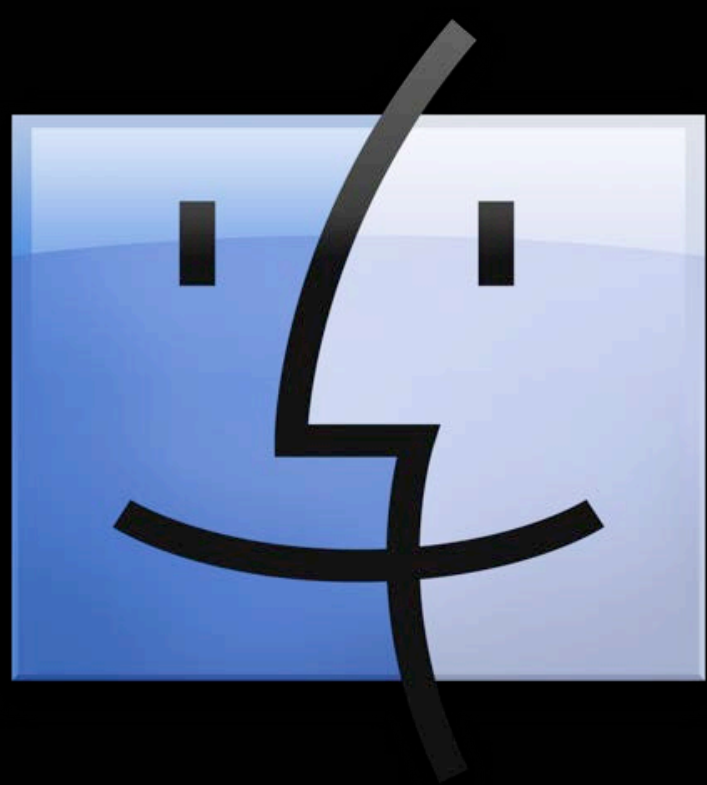
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EDITED MOVIES



SMITH PROJECT

The “use” Clause

Importing Terminology



The “use” Clause

Importing Terminology



- Imports terminology from Script Libraries and Applications

The “use” Clause

Importing Terminology



- Imports terminology from Script Libraries and Applications
- Imported commands are available globally in the script

The “use” Clause

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The “use” Clause

Importing Terminology



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- Can be used to specify minimum version
 - AppleScript
 - Applications
 - AppleScript Script Libraries
- Streamline script syntax

Demo

The “use” Clause

Chris Nebel

Senior AppleScript Engineer

AppleScript Libraries

New in OS X



- Libraries are a new plugin architecture for AppleScript, enabling easy development and access to custom sets of handlers.

AppleScript Libraries

New in OS X



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- AppleScript Libraries differ from Scripting Additions:

AppleScript Libraries

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AppleScript Libraries

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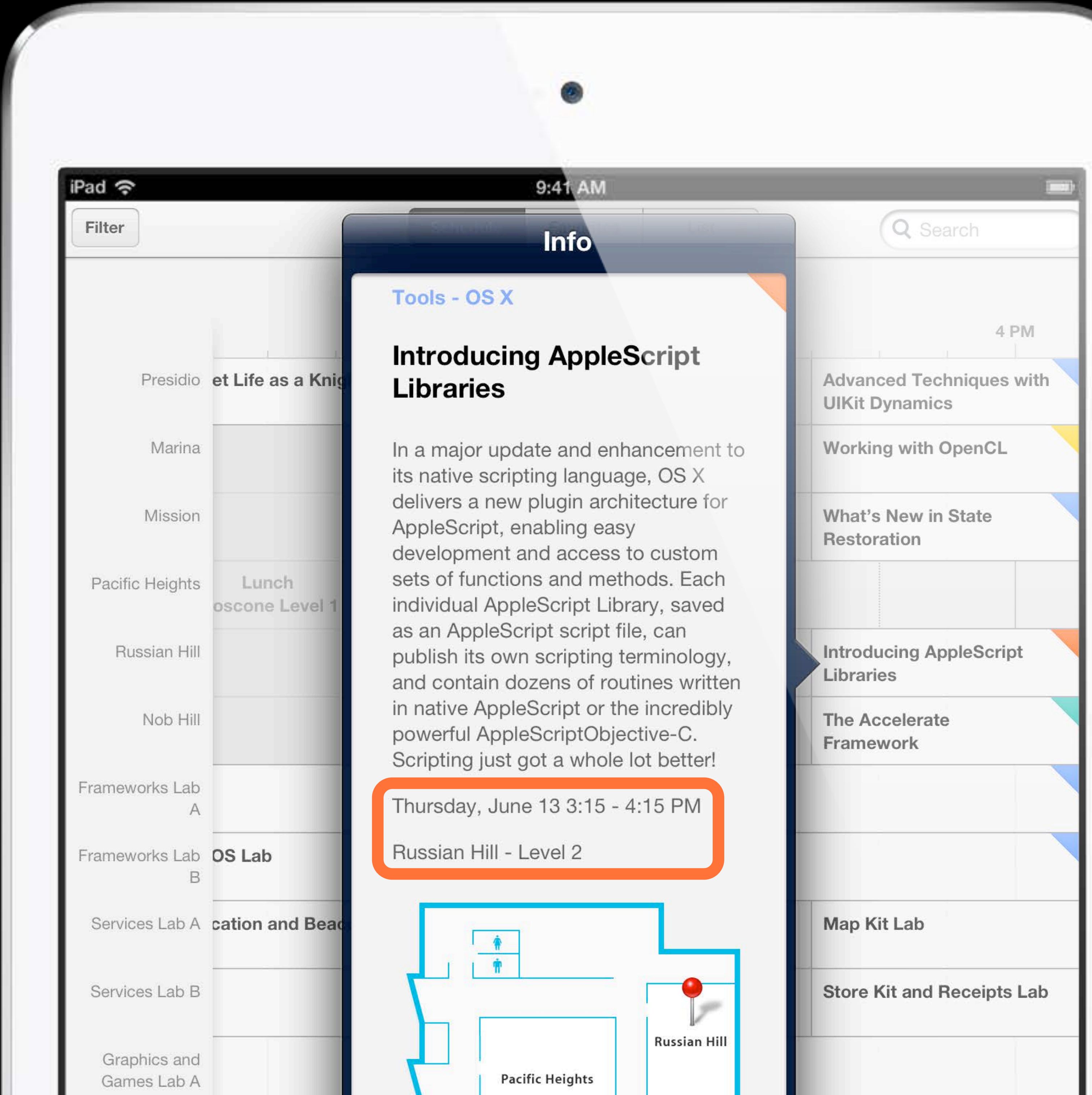


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- New *Script Library reference* automatically locates libraries
- The new *use* clause automatically loads a library for global access

Related Session

Related Session

416: Introducing
AppleScript Libraries
Russian Hill, Level 2
3:15 p.m. to 4:15 p.m.



Notifications

Informing the User

Notifications in OS X



Notifications in OS X

- Notifications appear in the same location, organized by application



Notifications in OS X

- Notifications appear in the same location, organized by application
- Disappear quickly so they don't clutter up your screen



Notifications in OS X

- Notifications appear in the same location, organized by application
- Disappear quickly so they don't clutter up your screen
- Provide a mechanism for action or response



Notifications in OS X

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- Disappear quickly so they don't clutter up your screen
- Provide a mechanism for action or response
- Designed to inform, not annoy or distract attention



Notifications in OS X

- Notifications appear in the same location, organized by application
- Disappear quickly so they don't clutter up your screen
- Provide a mechanism for action or response
- Designed to inform, not annoy or distract attention
- Should not leap, jump, or hop. Definitely **not** bounce!



Notification Support

Automator and AppleScript

- Integrated notification support
 - Automator
 - AppleScript
- No need for modal “completion” dialogs
- Now “100% Bounce-Free”

Notification Support

Automator and AppleScript



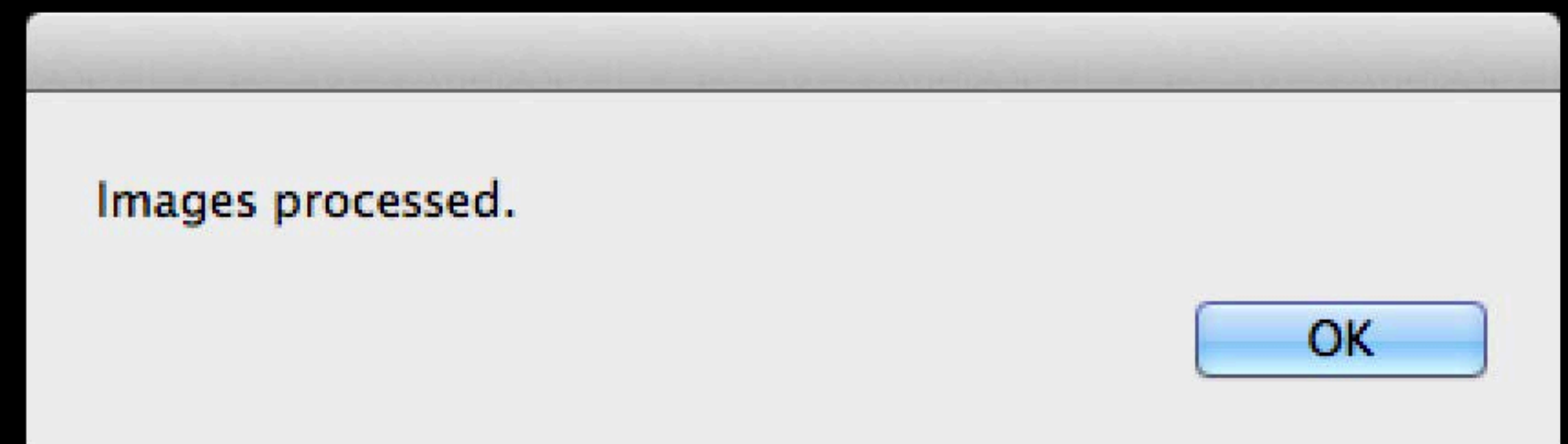
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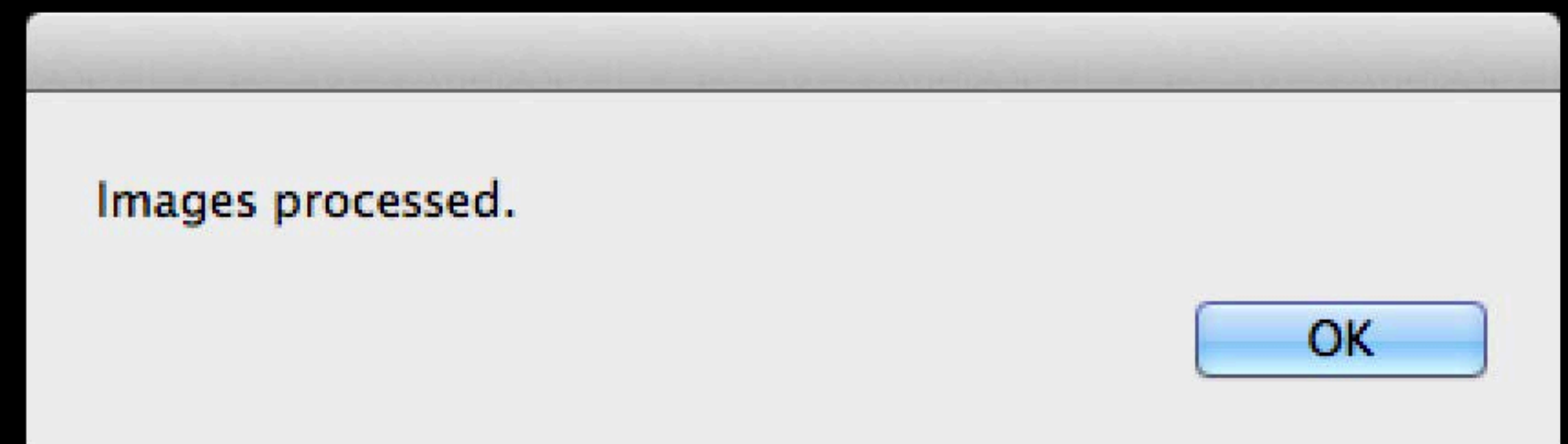


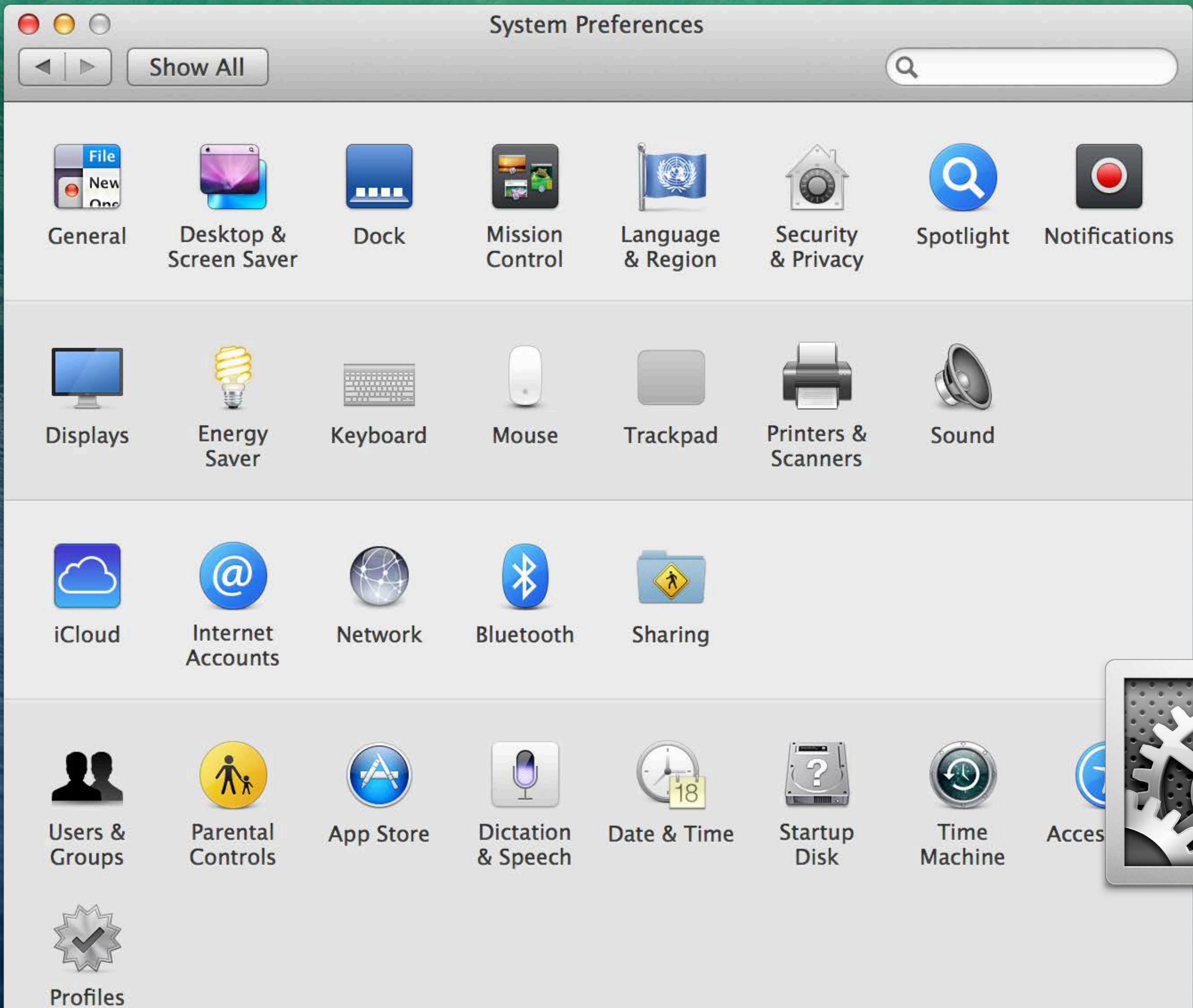
Notification Support

Automator and AppleScript



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System Preferences

◀▶

Show All

Q



General



Desktop & Screen Saver



Dock



Mission Control



Language & Region



Security & Privacy



Spotlight



Notifications



Displays



Energy Saver



Keyboard



Mouse



Trackpad



Printers & Scanners



Sound



iCloud



Internet Accounts



Network



Bluetooth



Sharing



Users & Groups



Parental Controls



App Store



Dictation & Speech



Date & Time



Startup Disk



Time Machine



Access



Profiles





General



Desktop &
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Mission
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Notifi
cations



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Mouse



Trackpad



Printers &
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Sound



iCloud



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Dictation
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Date & Time



Startup
Disk



Time
Machine

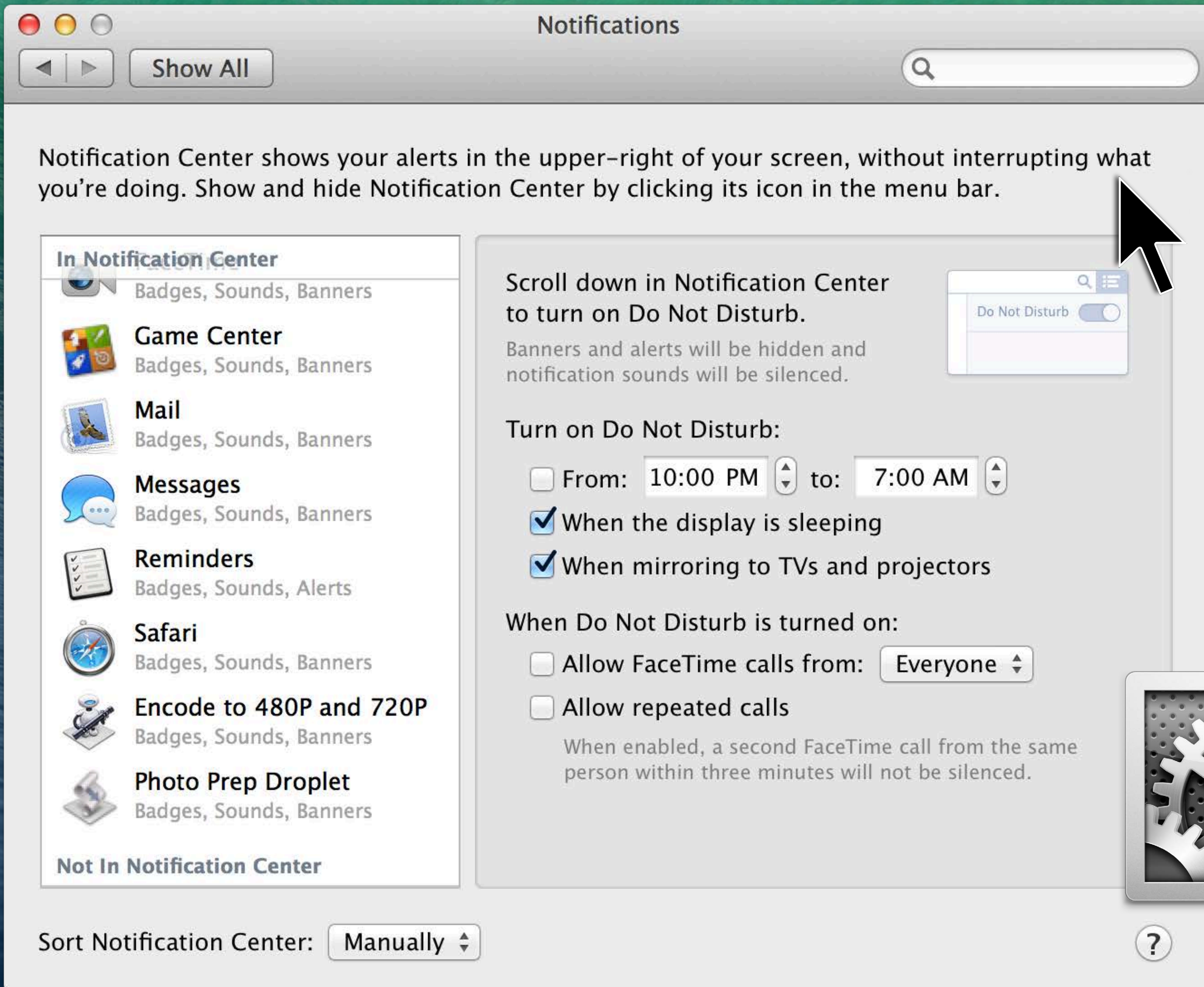


Acces



Profiles





Notifications

◀▶

Show All

Q

Notification Center shows your alerts in the upper-right of your screen, without interrupting what you're doing. Show and hide Notification Center by clicking its icon in the menu bar.

In Notification Center

Badges, Sounds, Banners

Game Center

Badges, Sounds, Banners

Mail

Badges, Sounds, Banners

Messages

Badges, Sounds, Banners

Reminders

Badges, Sounds, Alerts

Safari

Badges, Sounds, Banners

Encode to 480P and 720P

Badges, Sounds, Banners

Photo Prep Droplet

Badges, Sounds, Banners

Not In Notification Center

Scroll down in Notification Center to turn on Do Not Disturb.

Banners and alerts will be hidden and notification sounds will be silenced.

Q

Do Not Disturb

Turn on Do Not Disturb:

☐ From: 10:00 PM to: 7:00 AM

☒ When the display is sleeping

☒ When mirroring to TVs and projectors

When Do Not Disturb is turned on:

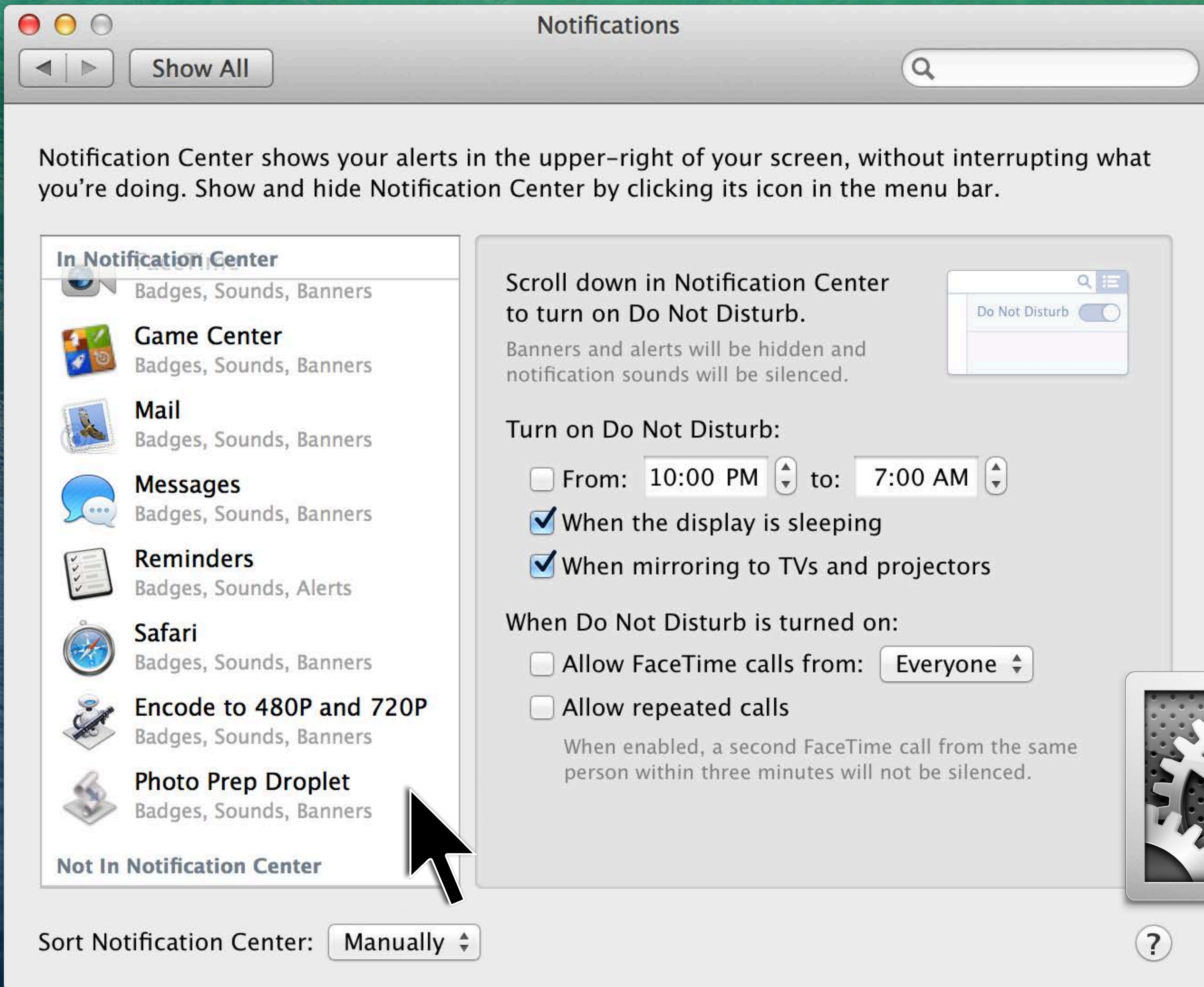
☐ Allow FaceTime calls from: Everyone

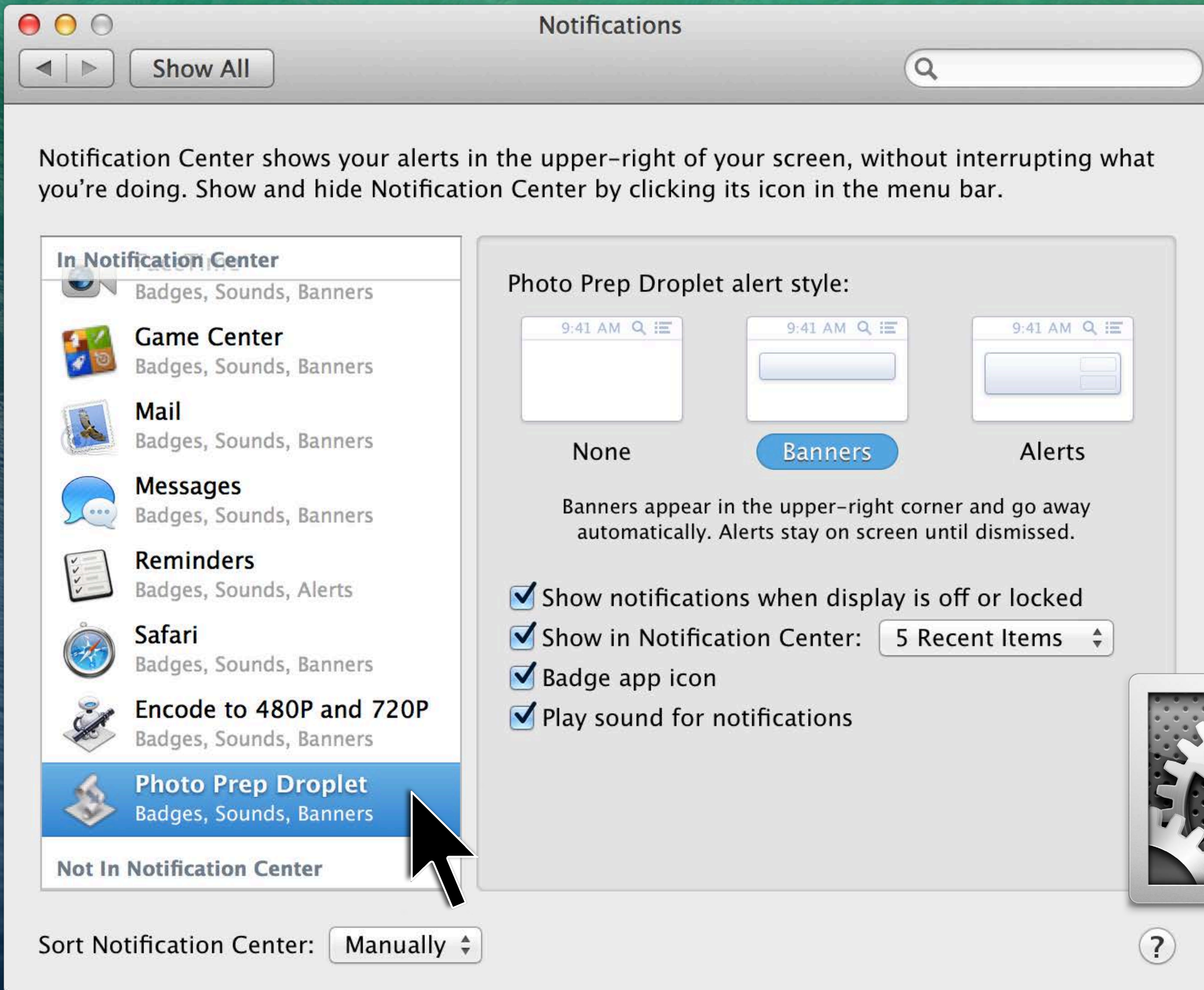
☐ Allow repeated calls

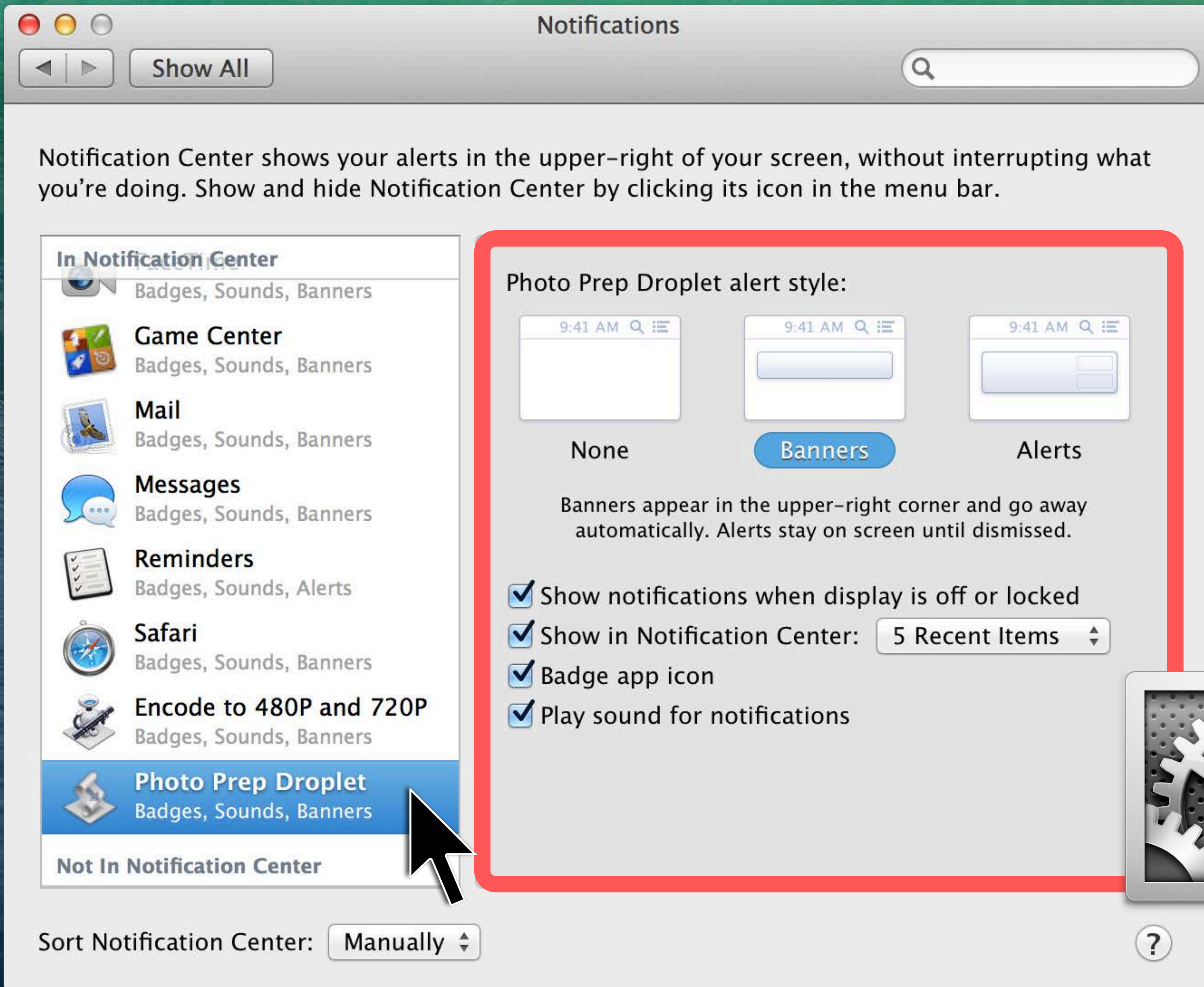
When enabled, a second FaceTime call from the same person within three minutes will not be silenced.

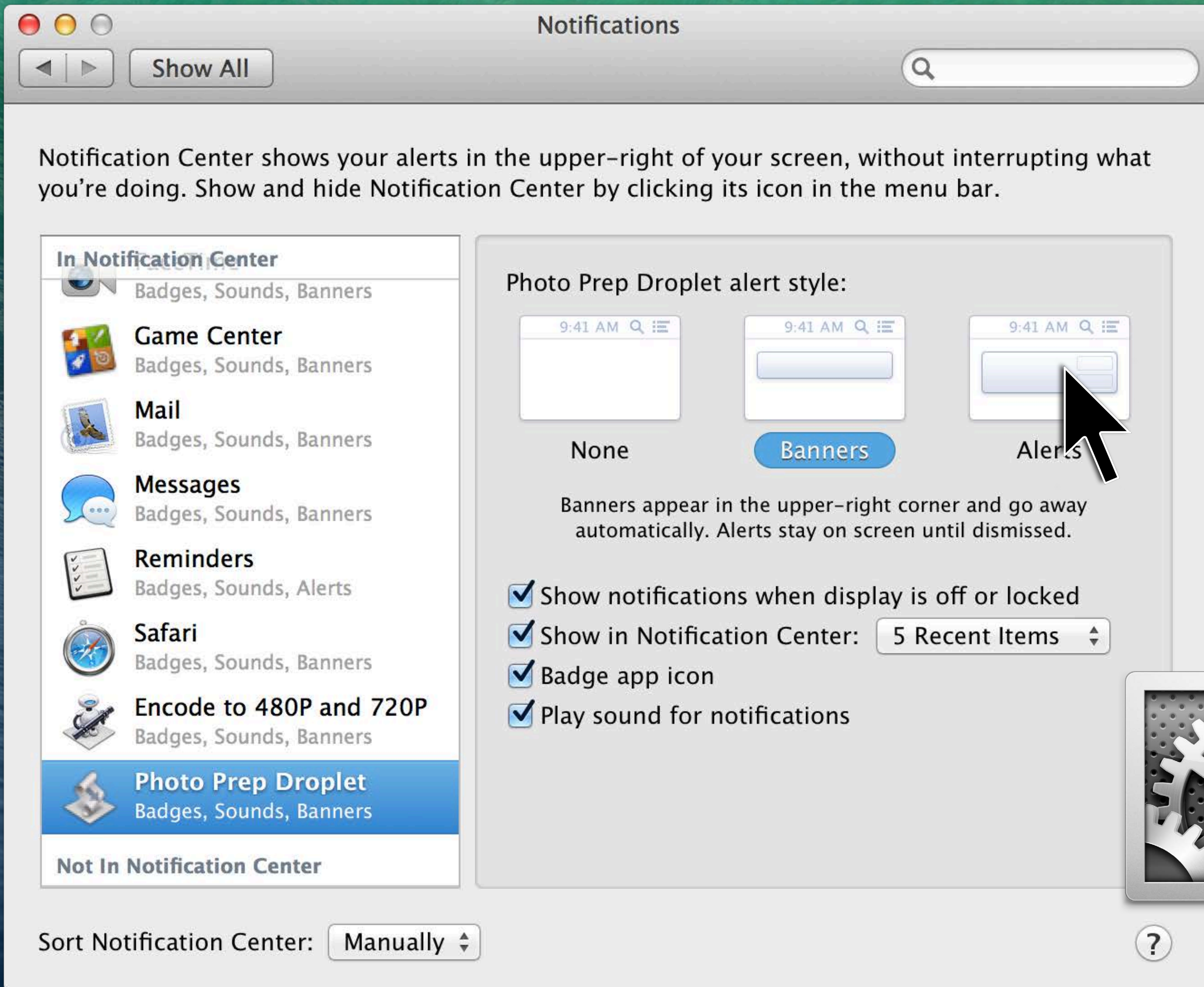
Sort Notification Center: Manually

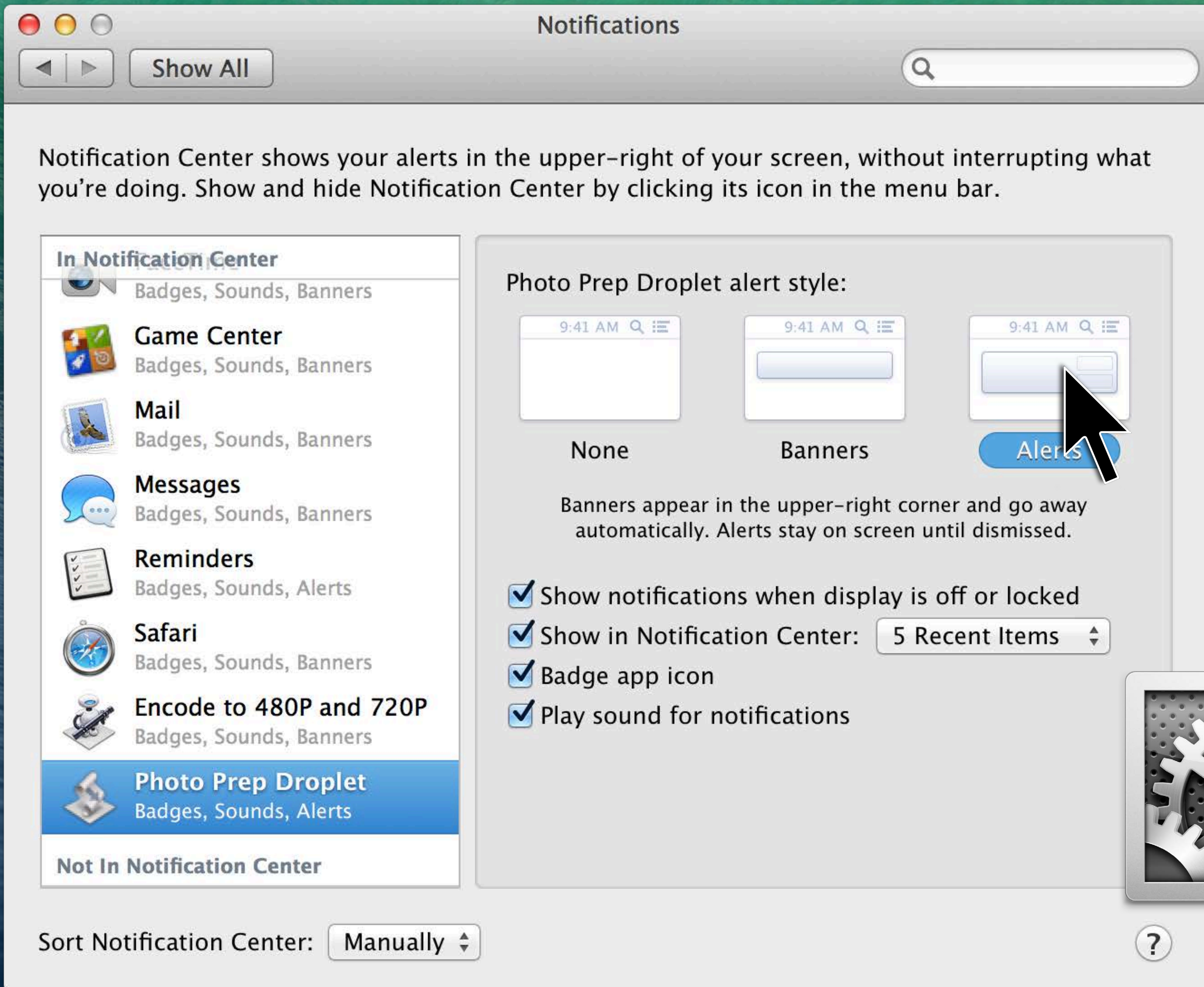
?

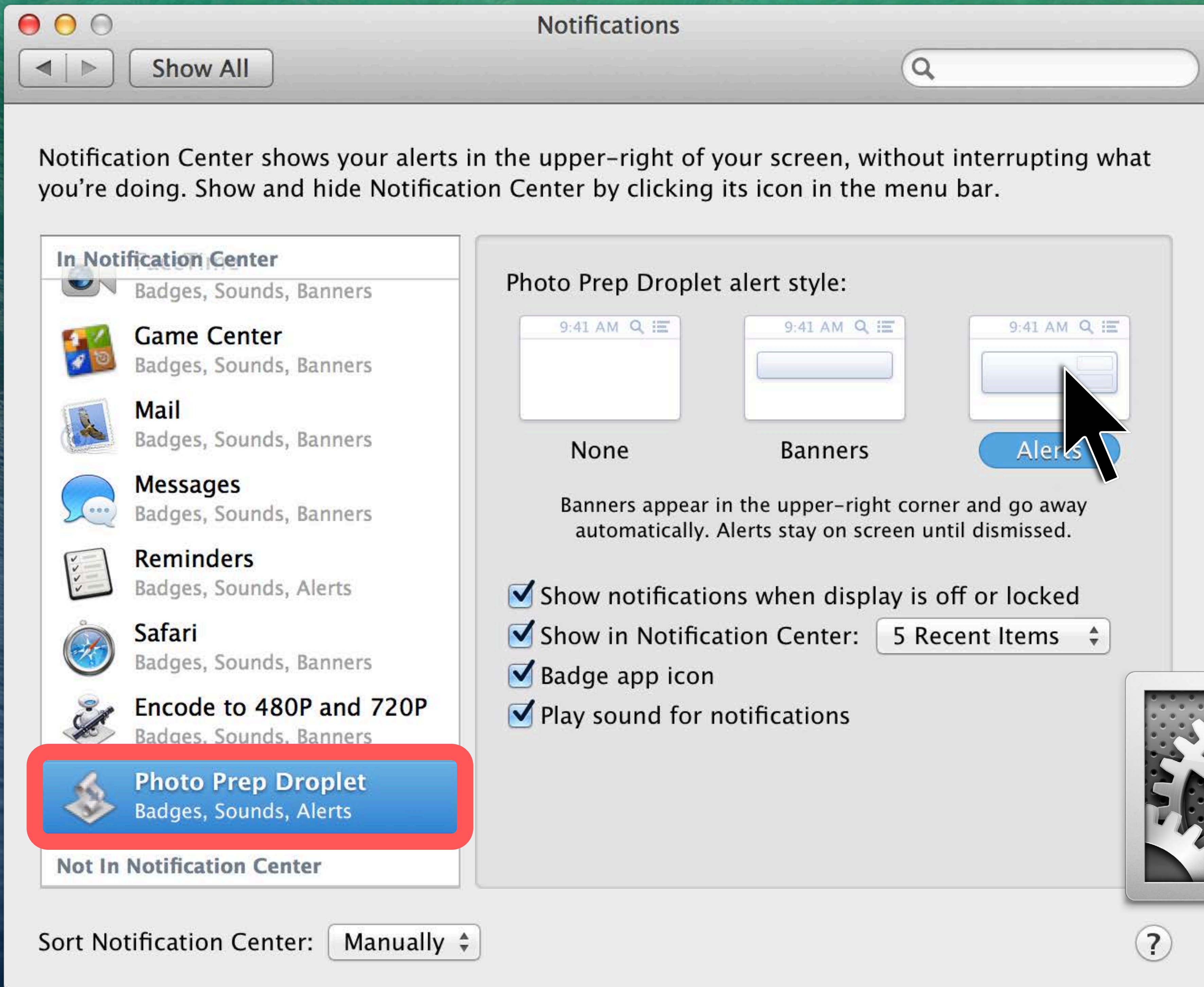


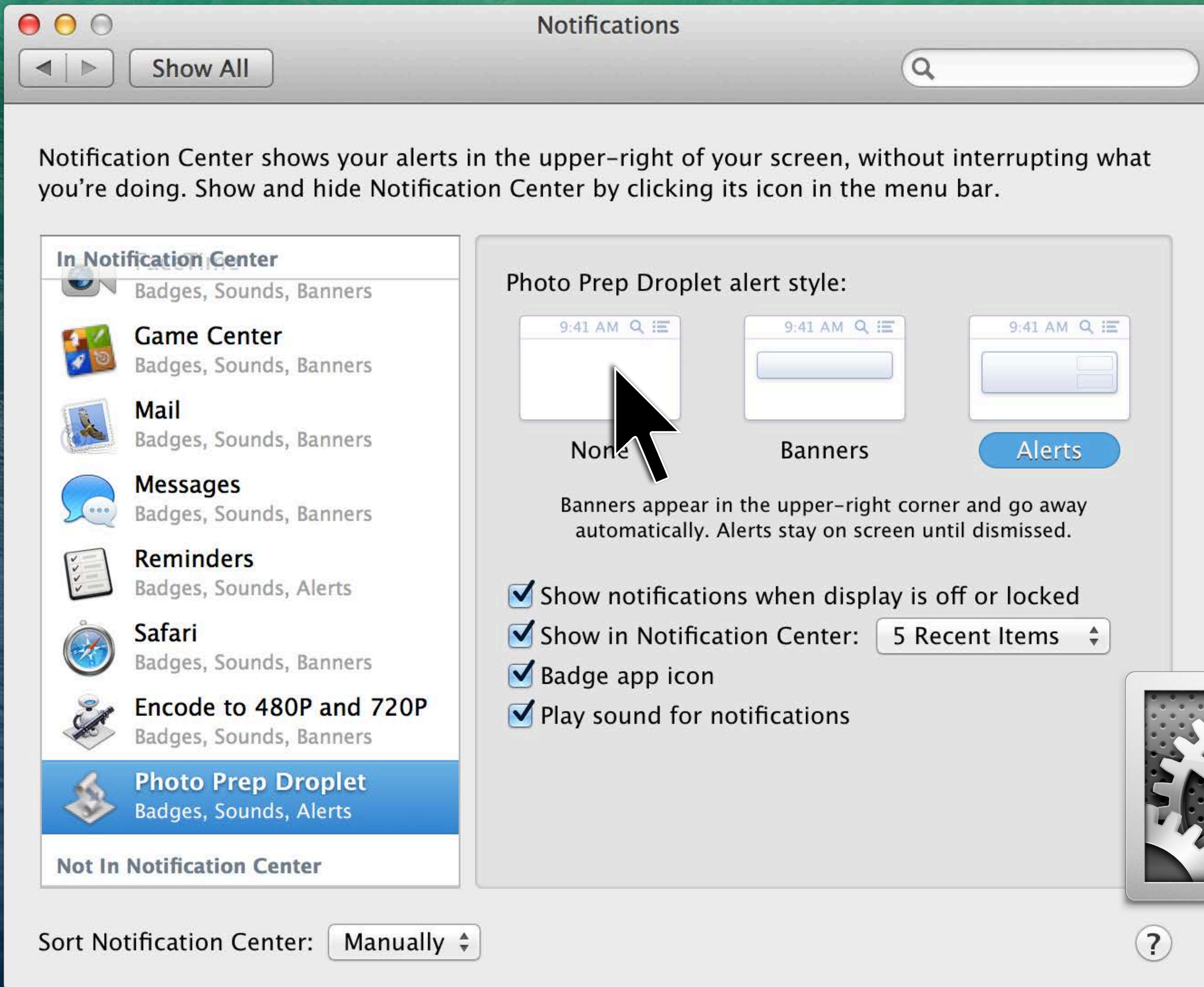


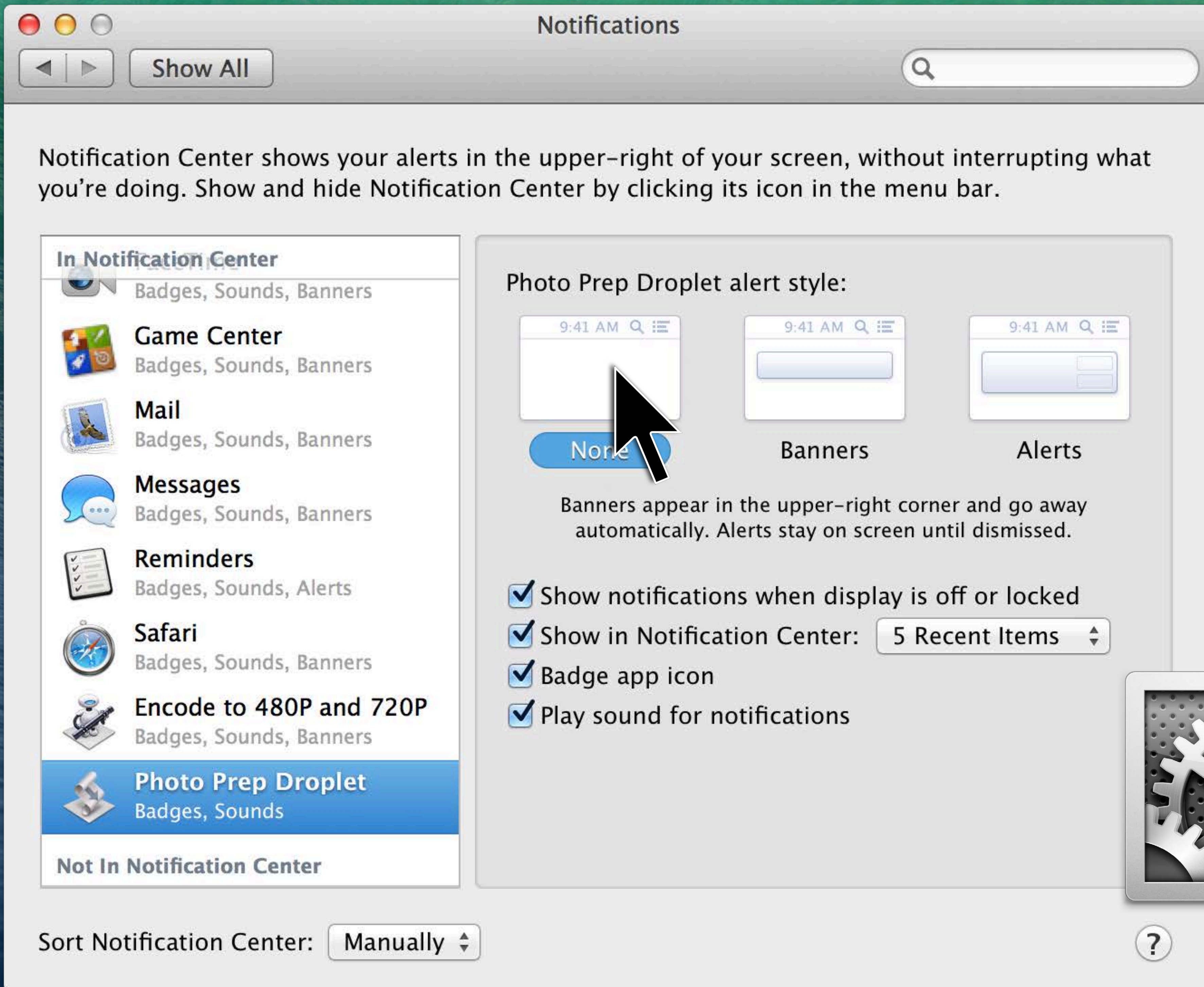


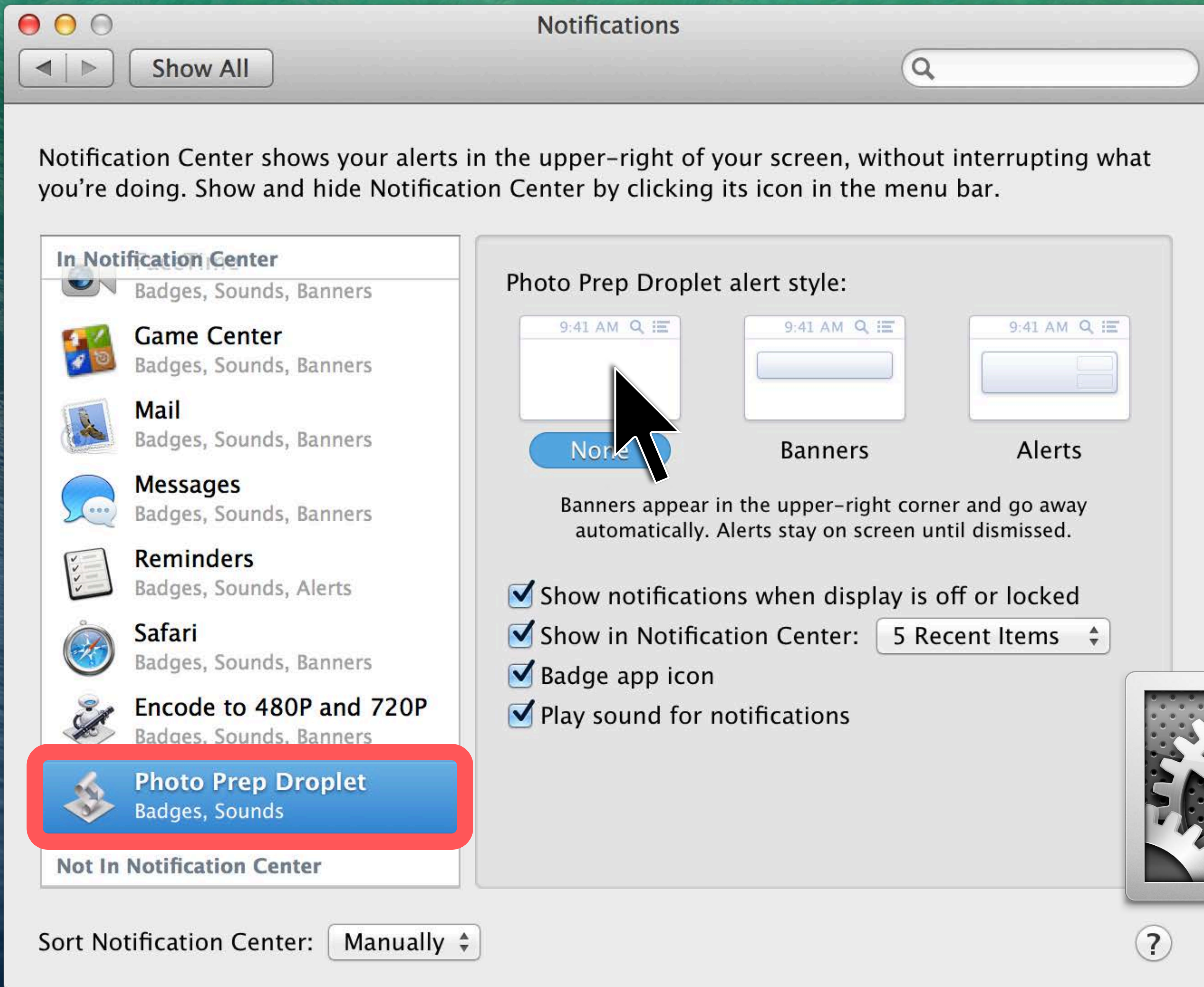


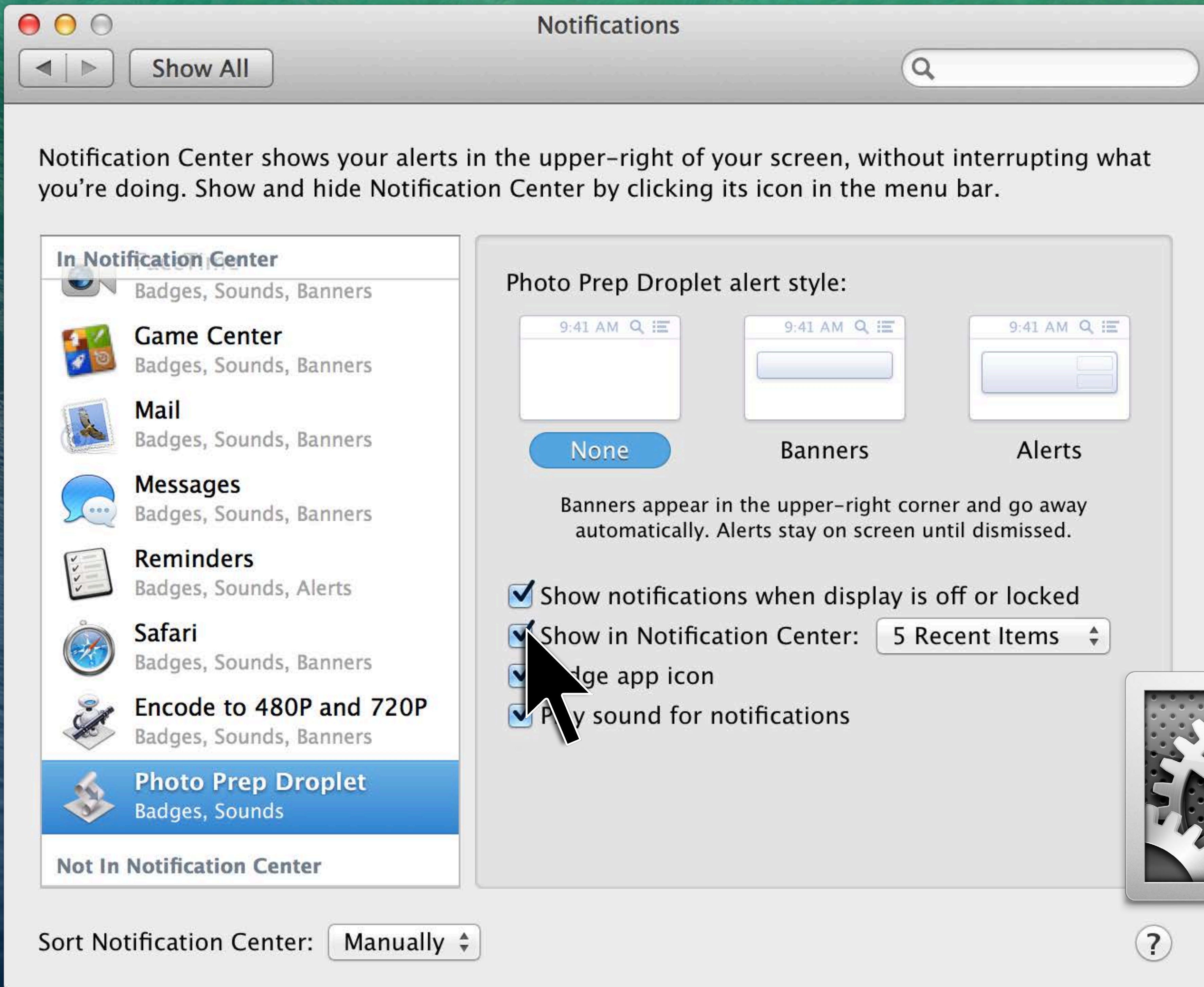


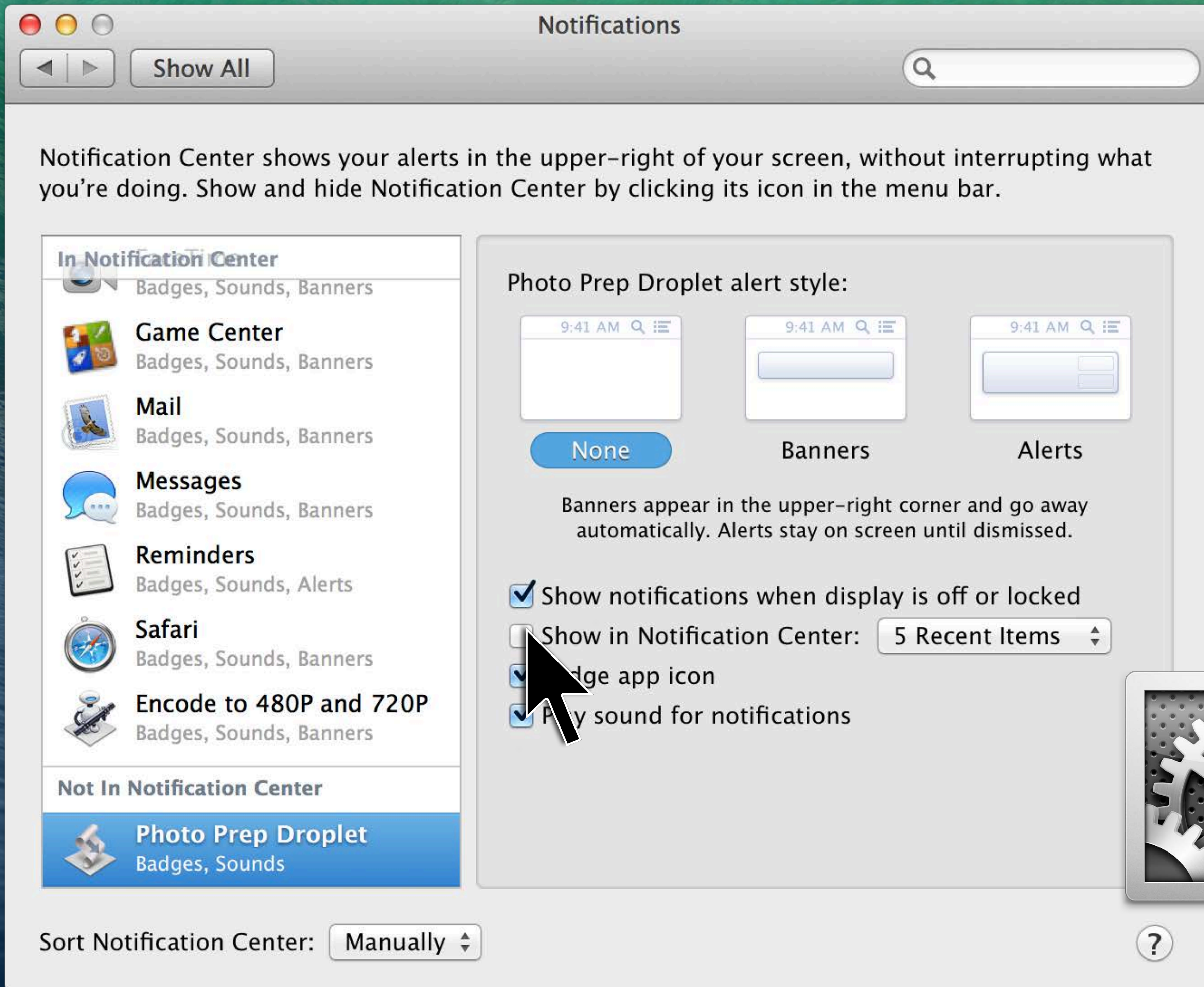


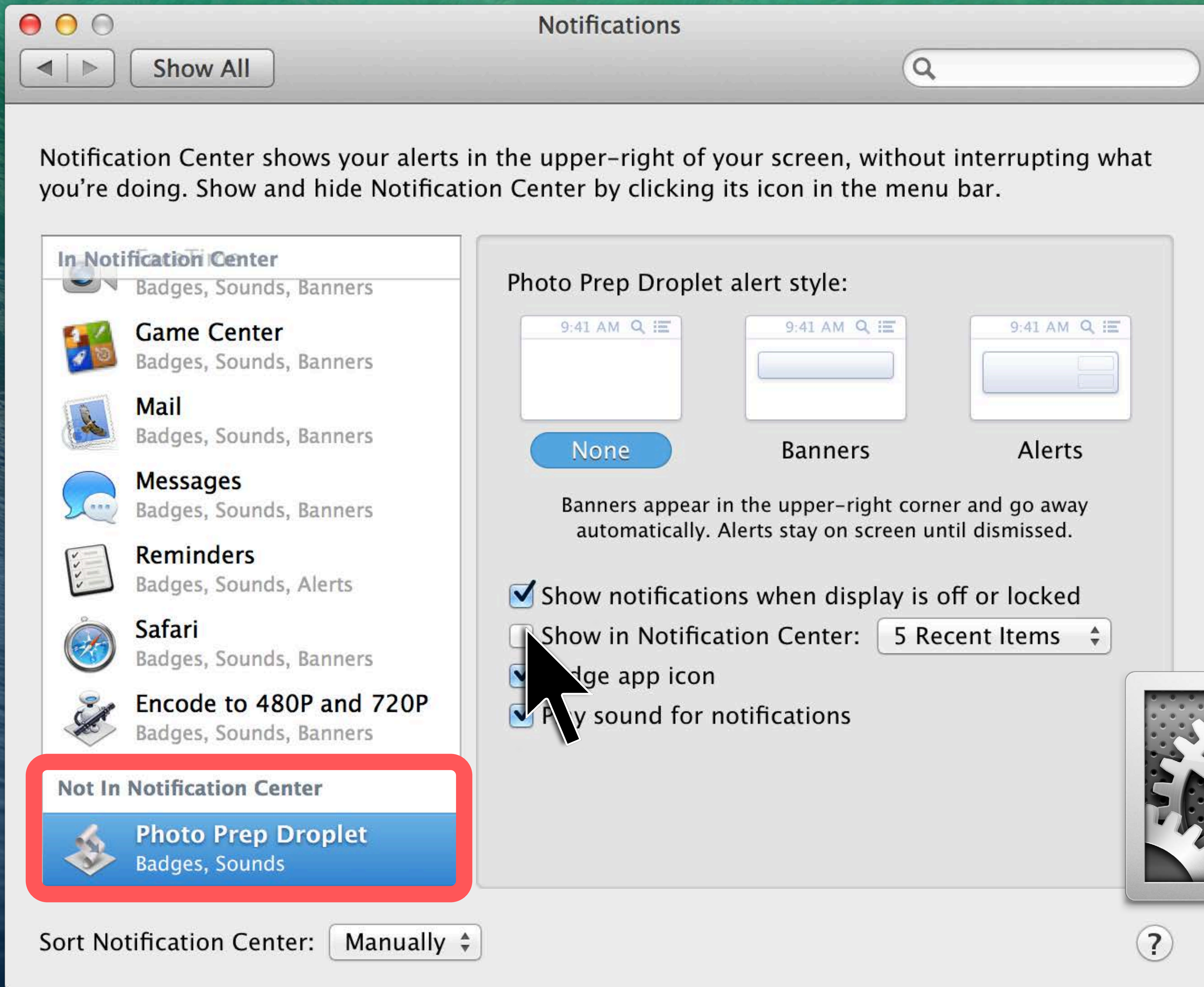


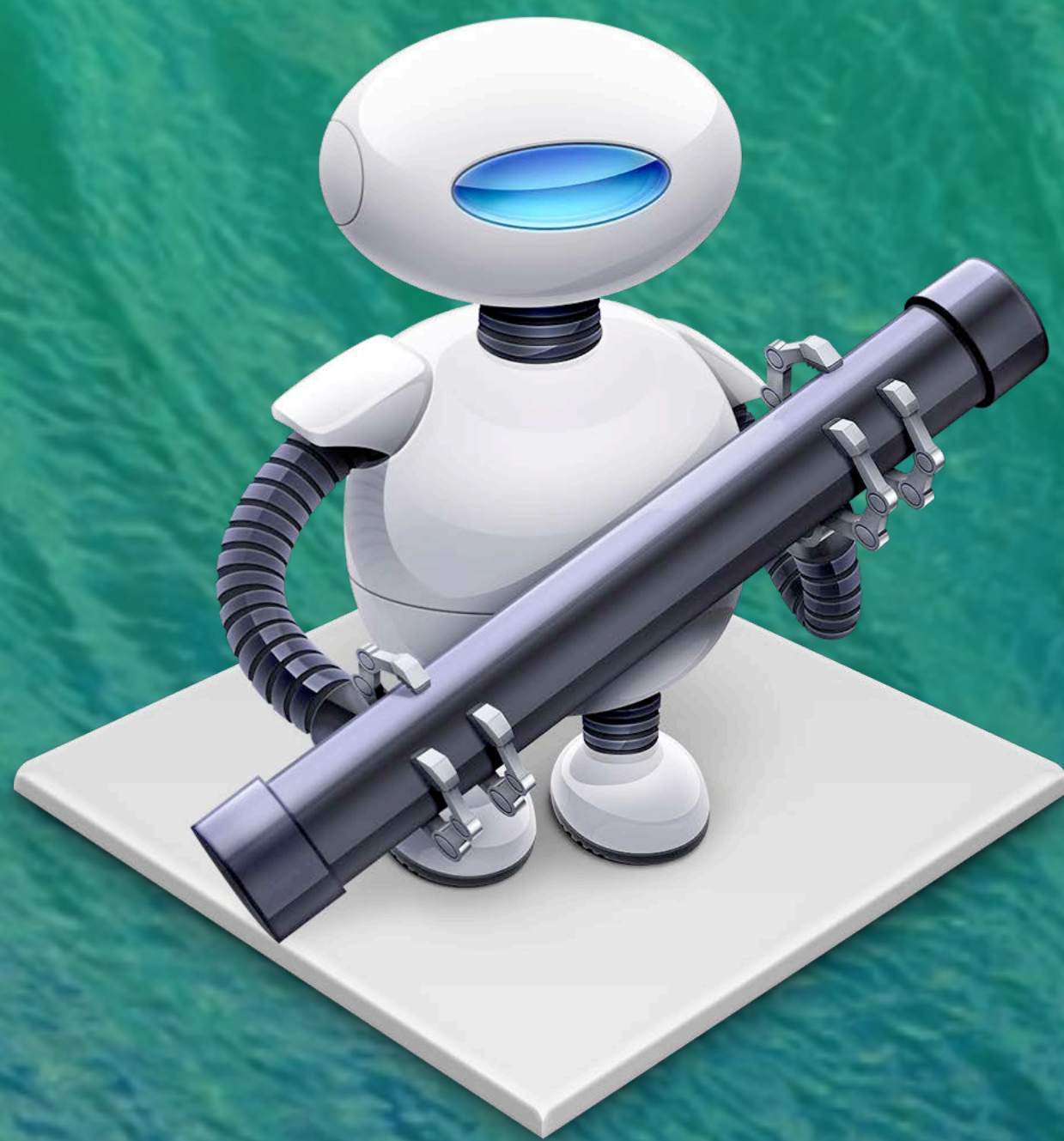








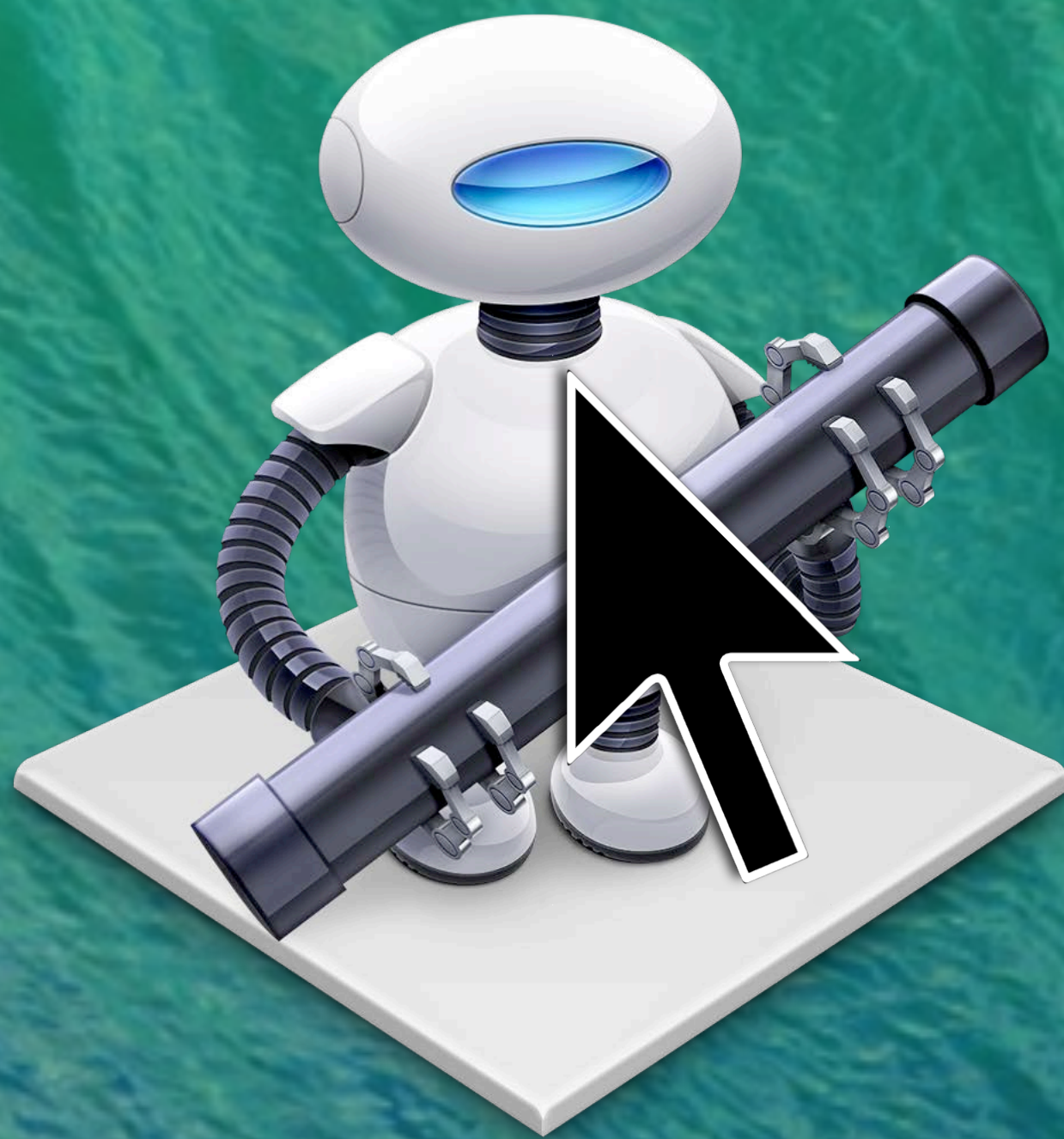






Mon 11:14 PM

Sal Soghoian





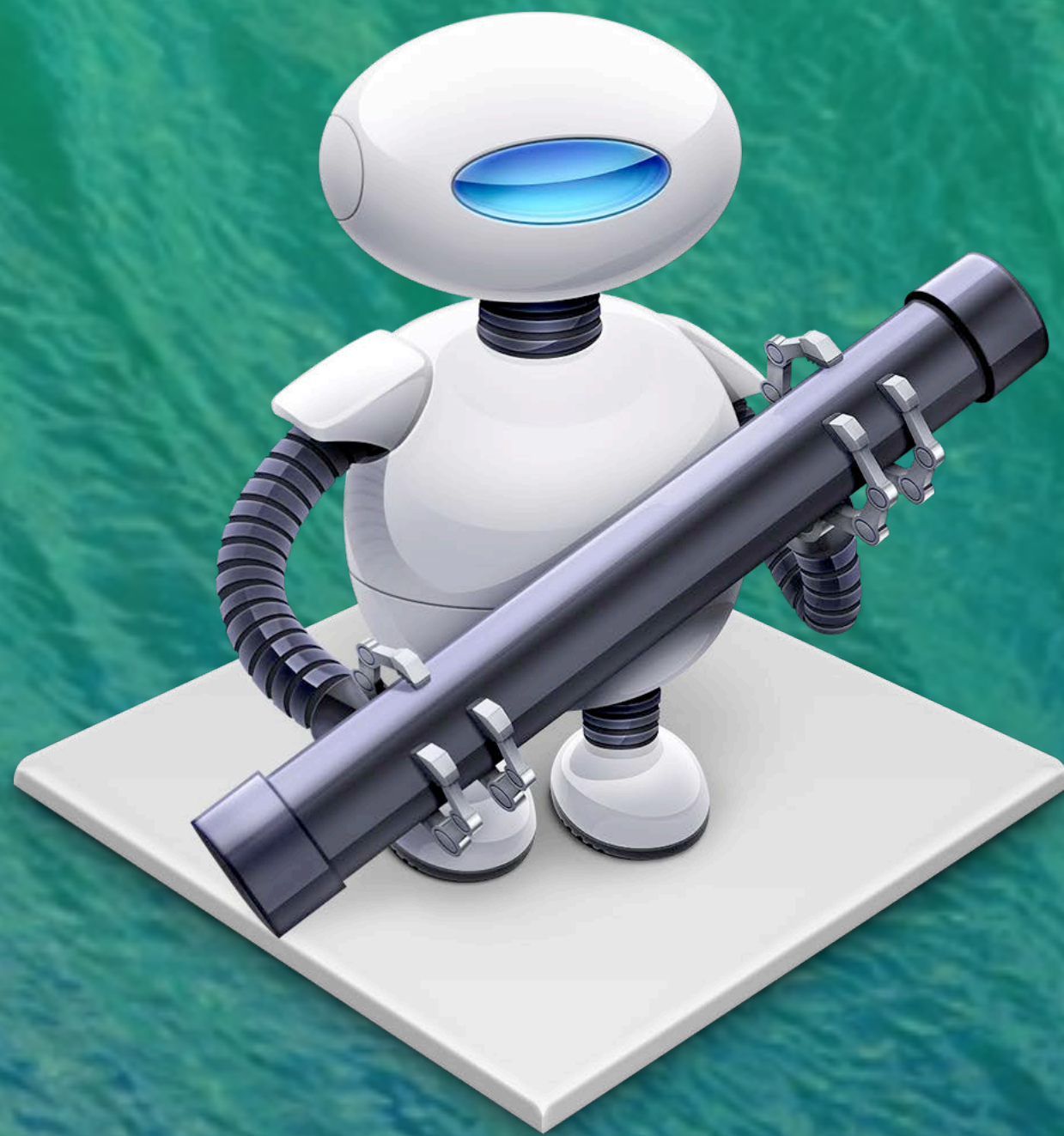
Mon 11:14 PM

Sal Soghoian



Encode to 480P and 720P

Encode Media (720P HQ) (6/8)



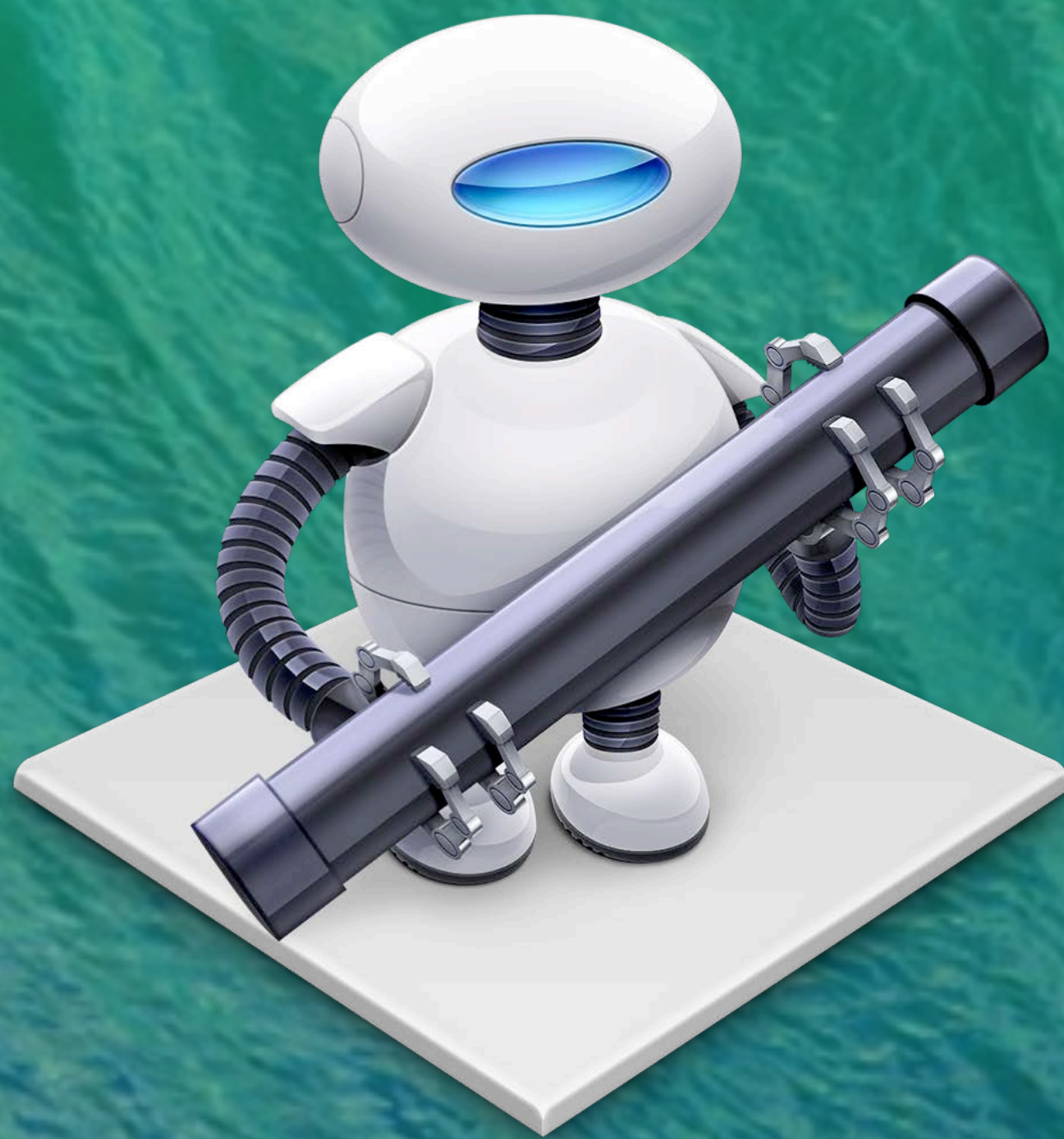


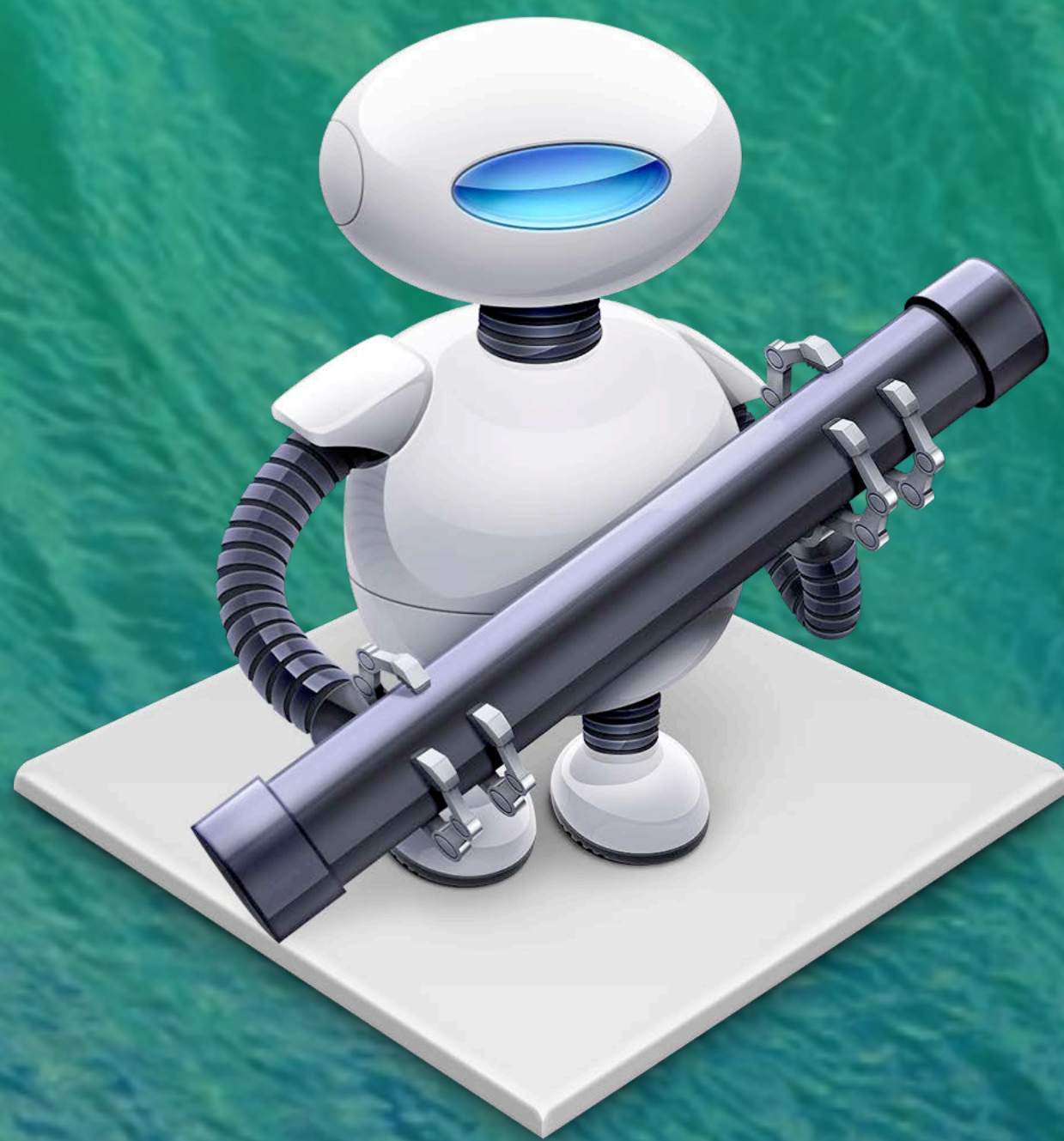
Mon 11:14 PM

Sal Soghoian



Encode to 480P and 720P
Workflow Completed

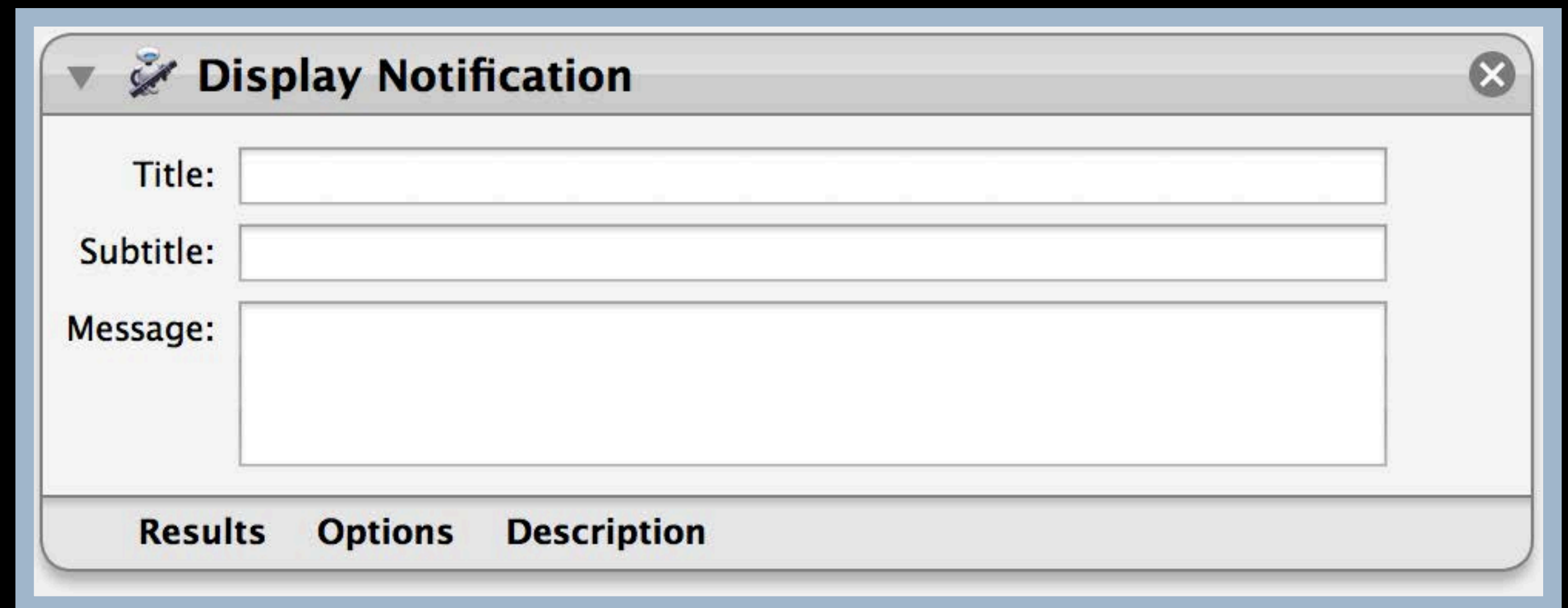






Automator

New Display Notification action



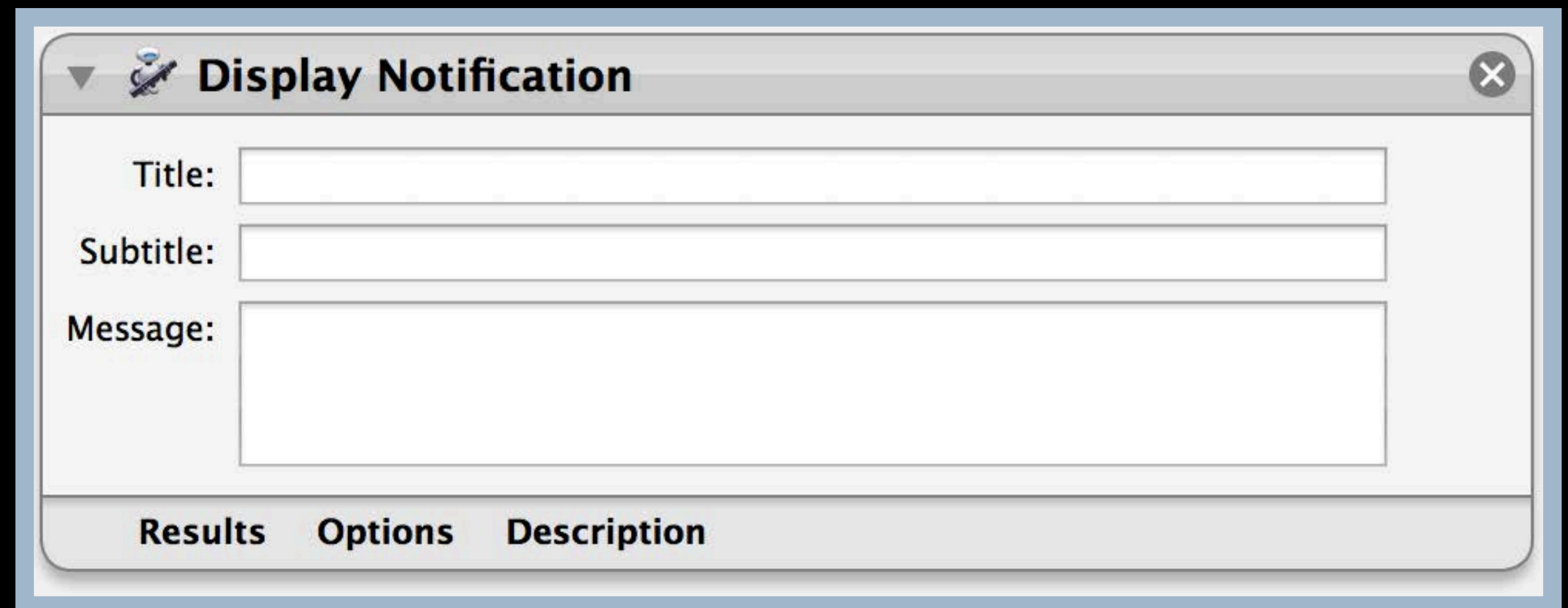
The screenshot shows the 'Display Notification' action window in Automator. The window has a title bar with a dropdown arrow, a small icon of a speech bubble, and the title 'Display Notification'. Below the title bar, there are three text input fields: 'Title:', 'Subtitle:', and 'Message:'. The 'Message:' field is the largest and is currently empty. At the bottom of the window, there is a tab bar with three tabs: 'Results', 'Options', and 'Description'. The 'Results' tab is currently selected.

Results	Options	Description

Automator

New Display Notification action

- Causes a notification to occur



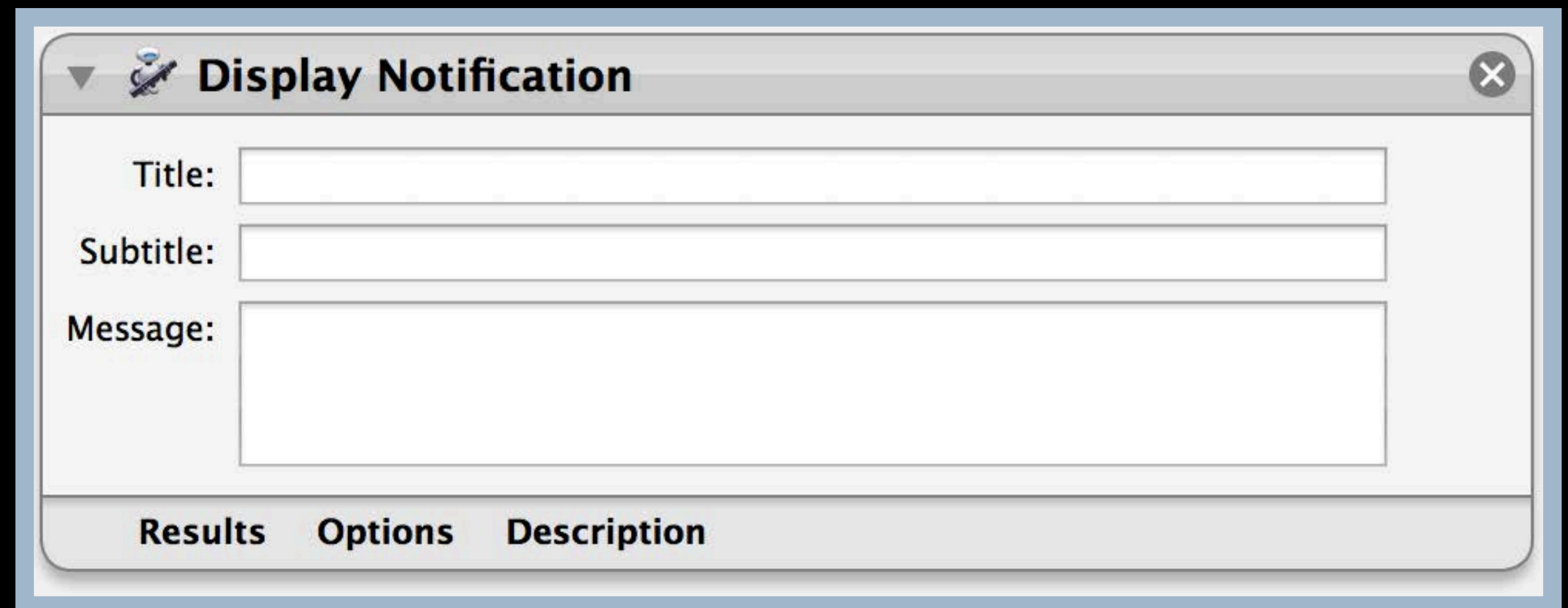
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Results	Options	Description

Automator

New Display Notification action

- Causes a notification to occur
- Place at the start, end, or within a workflow

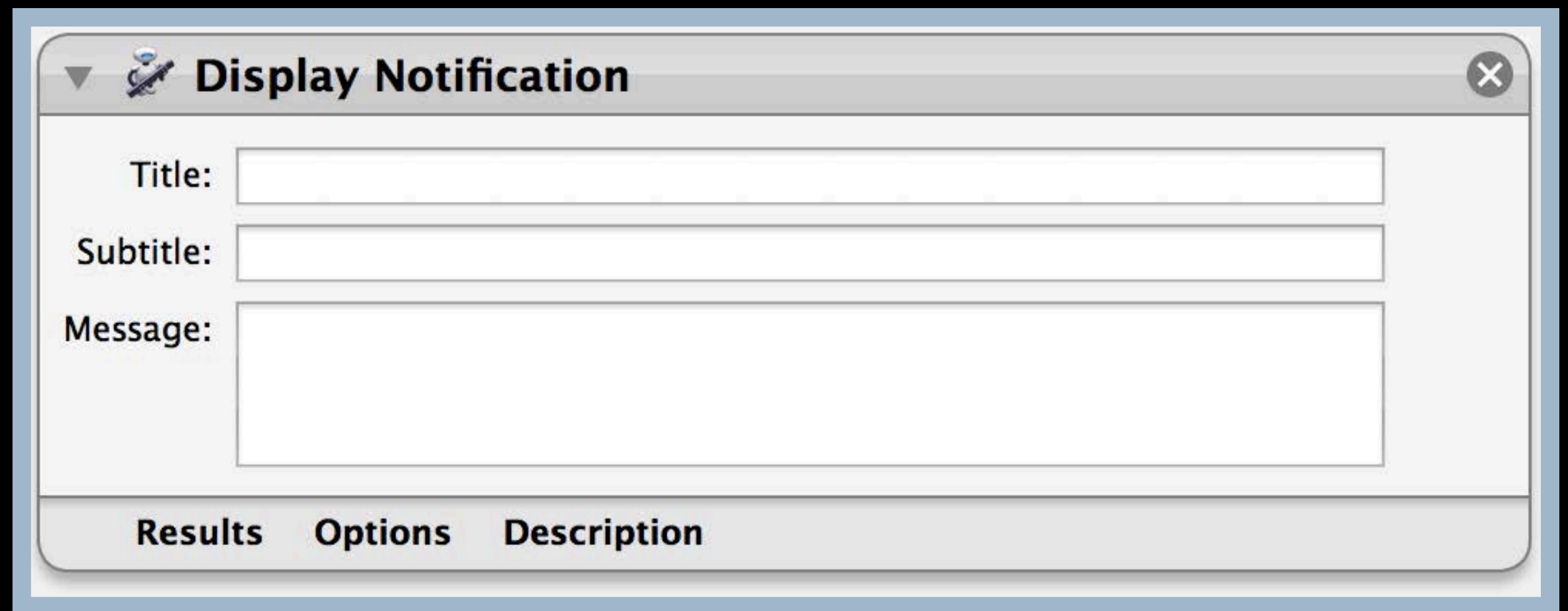


The screenshot shows the 'Display Notification' action window in Automator. The window has a title bar with a dropdown arrow, a small icon, and the text 'Display Notification'. Below the title bar, there are three text input fields labeled 'Title:', 'Subtitle:', and 'Message:'. The 'Message:' field is larger than the others. At the bottom of the window, there is a tabbed interface with three tabs: 'Results', 'Options', and 'Description'. The 'Results' tab is currently selected.

Automator

New Display Notification action

- Causes a notification to occur
- Place at the start, end, or within a workflow
- Provides optional input options for messaging



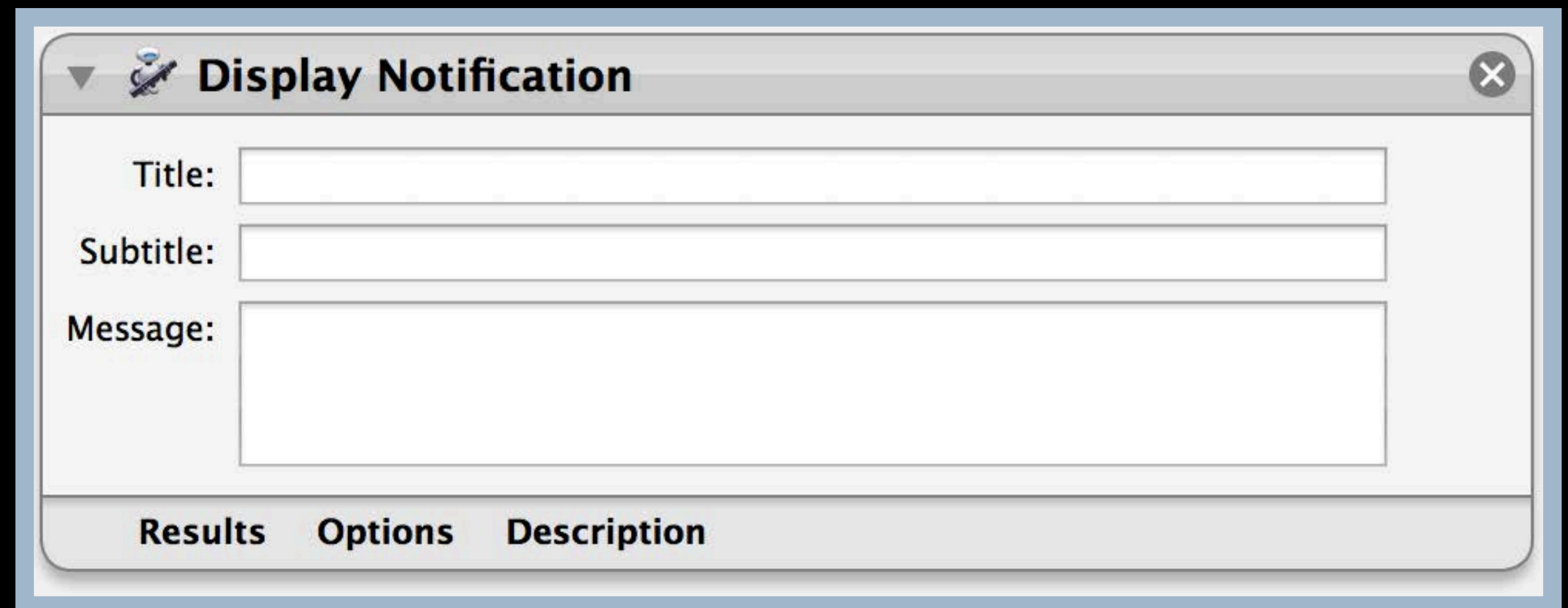
The screenshot shows the 'Display Notification' action window in Automator. The window has a title bar with a dropdown arrow, a small icon, the title 'Display Notification', and a close button. The main area contains three input fields: 'Title:', 'Subtitle:', and 'Message:'. The 'Message:' field is a larger text area. At the bottom, there is a tab bar with three tabs: 'Results', 'Options', and 'Description'.

Results	Options	Description

Automator

New Display Notification action

- Causes a notification to occur
- Place at the start, end, or within a workflow
- Provides optional input options for messaging
- Supports Automator variables



The screenshot shows the 'Display Notification' action window in Automator. The window has a title bar with a dropdown arrow, a small icon, and the text 'Display Notification'. Below the title bar, there are three input fields: 'Title:', 'Subtitle:', and 'Message:'. The 'Message:' field is a larger text area. At the bottom of the window, there is a tab bar with three tabs: 'Results', 'Options', and 'Description'.

Encode to 480P and 720P (Application) ▾

Show Library Media

Record Step Stop Run

Application receives files and folders as input

▶  Filter Finder Items (Filter for Movie Files) ×

▶  Set Value of Variable (Store Input) ×

▶  Encode Media (480P HQ) ×

▶  Rename Finder Items: Add Text (Append 480P to Name) ×

▶  Get Value of Variable (Retrieve Original Input) ×

▶  Encode Media (720P HQ) ×

▶  Rename Finder Items: Add Text (Append 720P to Name) ×

≡

≡



Encode to 480P and 720P (Application) ▾

Show Library Media

Record Step Stop Run

Application receives files and folders as input

▶

 Filter Finder Items (Filter for Movie Files)

✕

▶

 Set Value of Variable (Store Input)

✕

▶

 Encode Media (480P HQ)

✕

▶

 Rename Finder Items: Add Text (Append 480P to Name)

✕

▶

 Get Value of Variable (Retrieve Original Input)

✕

▶

 Encode Media (720P HQ)

✕

▶

 Rename Finder Items: Add Text (Append 720P to Name)

✕



Encode to 480P and 720P (Application) ▾

Show Library Media

Record Step Stop Run

Application receives files and folders as input

▶  Filter Finder Items (Filter for Movie Files) ×

▶  Set Value of Variable (Store Input) ×

▶  Encode Media (480P HQ) ×

▶  Rename Finder Items: Add Text (Append 480P to Name) ×

▶  Get Value of Variable (Retrieve Original Input) ×

▶  Encode Media (720P HQ) ×

▶  Rename Finder Items: Add Text (Append 720P to Name) ×



Encode to 480P and 720P (Application) ▾

Show Library MediaRecord Step Stop Run

Application receives files and folders as input

⌵

 **Filter Finder Items (Filter for Movie Files)**

✕

Find files where:

All ▾ of the following are true

+

Kind ▾ is ▾ movie ▾

+

Results Options Description

▶  **Set Value of Variable (Store Input)** ✕

▶  **Encode Media (480P HQ)** ✕

▶  **Rename Finder Items: Add Text (Append 480P to Name)** ✕

▶  **Get Value of Variable (Retrieve Original Input)** ✕

⋮

≡



Encode to 480P and 720P (Application) ▾

Show Library MediaRecord Step Stop Run

Application receives files and folders as input

⌵

 **Filter Finder Items (Filter for Movie Files)**

×

Find files where:

All ▾ of the following are true

Kind ▾ is ▾ movie ▾

Results Options Description

▶  **Set Value of Variable (Store Input)**

▶  **Encode Media (480P HQ)**

▶  **Rename Finder Items: Add Text (Append 480P to Name)**

▶  **Get Value of Variable (Retrieve Original Input)**

⋮

≡



Encode to 480P and 720P (Application) ▾

Show Library MediaRecord Step Stop Run

Application receives files and folders as input

⌵

 **Filter Finder Items (Filter for Movie Files)**

×

Find files where:

All ▾ of the following are true

Kind ▾ is ▾ movie ▾

Results Options Description

▶  **Set Value of Variable (Store Input)**

▶  **Encode Media (480P HQ)**

▶  **Rename Finder Items: Add Text (Append 480P to Name)**

▶  **Get Value of Variable (Retrieve Original Input)**

⋮

≡



Encode to 480P and 720P (Application) ▾

Show Library MediaRecord Step Stop Run

Application receives files and folders as input

▶  Filter Finder Items (Filter for Movie Files) ×

▼  Set Value of Variable (Store Input) ×

Variable:

Results	Options	Description

▶  Encode Media (480P HQ) ×

▶  Rename Finder Items: Add Text (Append 480P to Name) ×

▶  Get Value of Variable (Retrieve Original Input) ×

▶  Encode Media (720P HQ) ×

▶  Rename Finder Items: Add Text (Append 720P to Name) ×



Encode to 480P and 720P (Application) ▾

Show Library MediaRecord Step Stop Run

Application receives files and folders as input

▶  Filter Finder Items (Filter for Movie Files) ✕

▼  Set Value of Variable (Store Input) ✕

Variable:

inputItems

Results Options Description

▶  Encode Media (480P HQ) ✕

▶  Rename Finder Items: Add Text (Append 480P to Name) ✕

▶  Get Value of Variable (Retrieve Original Input) ✕

▶  Encode Media (720P HQ) ✕

▶  Rename Finder Items: Add Text (Append 720P to Name) ✕



Encode to 480P and 720P (Application) ▾

Show Library MediaRecord Step Stop Run

Application receives files and folders as input

▶  Filter Finder Items (Filter for Movie Files) ×

▼  Set Value of Variable (Store Input) ×

Variable:

Results	Options	Description

▶  Encode Media (480P HQ) ×

▶  Rename Finder Items: Add Text (Append 480P to Name) ×

▶  Get Value of Variable (Retrieve Original Input) ×

▶  Encode Media (720P HQ) ×

▶  Rename Finder Items: Add Text (Append 720P to Name) ×



Encode to 480P and 720P (Application)

Show Library MediaRecord Step Stop Run

Application receives files and folders as input

Filter Finder Items (Filter for Movie Files)

Set Value of Variable (Store Input)

Encode Media (480P HQ)

Setting: 480p

Encode for: Higher quality

Format: H.264/AAC

Resolution: up to 640x480

Data rate: video up to 3.0Mbps; audio up to 160kbps/48kHz

Compatible with: iPad, iPhone 3GS, iPod touch (3rd generation), Apple TV, Mac, and PC

Destination: nythawk

☒ Same as source file

☐ Delete source files after processing

Results Options Description



Encode to 480P and 720P (Application)

Show LibraryMediaRecordStepStopRun

Application receives files and folders as input

Filter Finder Items (Filter for Movie Files)

Set Value of Variable (Store Input)

Encode Media (480P HQ)

Setting:480p

Encode for:Higher quality

Format: H.264/AAC

Resolution: up to 640x480

Data rate: video up to 3.0Mbps; audio up to 160kbps/48kHz

Compatible with: iPad, iPhone 3GS, iPod touch (3rd generation), Apple TV, Mac, and PC

Destination:nythawk☒ Same as source file

☐ Delete source files after processing

ResultsOptionsDescription



Encode to 480P and 720P (Application)

Show LibraryMediaRecordStepStopRun

Application receives files and folders as input

Filter Finder Items (Filter for Movie Files)

Set Value of Variable (Store Input)

Encode Media (480P HQ)

Setting:480p

Encode for:Higher quality

Format: H.264/AAC

Resolution: up to 640x480

Data rate: video up to 3.0Mbps; audio up to 160kbps/48kHz

Compatible with: iPad, iPhone 3GS, iPod touch (3rd generation), Apple TV, Mac, and PC

Destination:nythawk☒ Same as source file

☐ Delete source files after processing

ResultsOptionsDescription



Encode to 480P and 720P (Application)

Show Library MediaRecord Step Stop Run

Application receives files and folders as input

Filter Finder Items (Filter for Movie Files)

Set Value of Variable (Store Input)

Encode Media (480P HQ)

Setting: 480p

Encode for: Higher quality

Format: H.264/AAC

Resolution: up to 640x480

Data rate: video up to 3.0Mbps; audio up to 160kbps/48kHz

Compatible with: iPad, iPhone 3GS, iPod touch (3rd generation), Apple TV, Mac, and PC

Destination: nythawk

☒ Same as source file

☐ Delete source files after processing

Results Options Description



Encode to 480P and 720P (Application)

Show LibraryMediaRecordStepStopRun

Application receives files and folders as input

▶ Filter Finder Items (Filter for Movie Files)

▶ Set Value of Variable (Store Input)

▶ Encode Media (480P HQ)

▼ Rename Finder Items: Add Text (Append 480P to Name)

▶ Get Value of Variable (Retrieve Original Input)

Add Text

Add: after name

Example: Item Name-480P.xxx

ResultsOptionsDescription



Encode to 480P and 720P (Application)

Show LibraryMediaRecordStepStopRun

Application receives files and folders as input

▶ Filter Finder Items (Filter for Movie Files) ×

▶ Set Value of Variable (Store Input) ×

▶ Encode Media (480P HQ) ×

▼ Rename Finder Items: Add Text (Append 480P to Name) ×

▶ Get Value of Variable (Retrieve Original Input) ×

Add Text

Add: after name

Example: Item Name-480P.xxx

ResultsOptionsDescription



Encode to 480P and 720P (Application)

Show LibraryMediaRecordStepStopRun

Application receives files and folders as input

Filter Finder Items (Filter for Movie Files)

Set Value of Variable (Store Input)

Encode Media (480P HQ)

Rename Finder Items: Add Text (Append 480P to Name)

Add Text

Add: -480P

after name

Example: Item Name-480P.xxx

ResultsOptionsDescription

Get Value of Variable (Retrieve Original Input)



Encode to 480P and 720P (Application)

Show LibraryMediaRecordStepStopRun

Application receives files and folders as input

▶ Filter Finder Items (Filter for Movie Files)

▶ Set Value of Variable (Store Input)

▶ Encode Media (480P HQ)

▶ Rename Finder Items: Add Text (Append 480P to Name)

▼ Get Value of Variable (Retrieve Original Input)

▶ Encode Media (720P HQ)

▶ Rename Finder Items: Add Text (Append 720P to Name)

Variable:inputItems

Results	Options	Description



Encode to 480P and 720P (Application)

Show LibraryMediaRecordStepStopRun

Application receives files and folders as input

▶ Filter Finder Items (Filter for Movie Files)

▶ Set Value of Variable (Store Input)

▶ Encode Media (480P HQ)

▶ Rename Finder Items: Add Text (Append 480P to Name)

▼ Get Value of Variable (Retrieve Original Input)

▶ Encode Media (720P HQ)

▶ Rename Finder Items: Add Text (Append 720P to Name)

Variable:inputItems

ResultsOptionsDescription



Encode to 480P and 720P (Application)

Show LibraryMediaRecordStepStopRun

Application receives files and folders as input

Filter Finder Items (Filter for Movie Files)

Set Value of Variable (Store Input)

Encode Media (480P HQ)

Rename Finder Items: Add Text (Append 480P to Name)

Get Value of Variable (Retrieve Original Input)

Variable:inputItems

ResultsOptionsDescription

Encode Media (720P HQ)

Rename Finder Items: Add Text (Append 720P to Name)



Encode to 480P and 720P (Application)

Show LibraryMediaRecordStepStopRun

Set Value of Variable (Store Input)

Encode Media (480P HQ)

Rename Finder Items: Add Text (Append 480P to Name)

Get Value of Variable (Retrieve Original Input)

Encode Media (720P HQ)

Setting:720p

Encode for:Higher quality

Format:H.264/AAC

Resolution:up to 1280x720

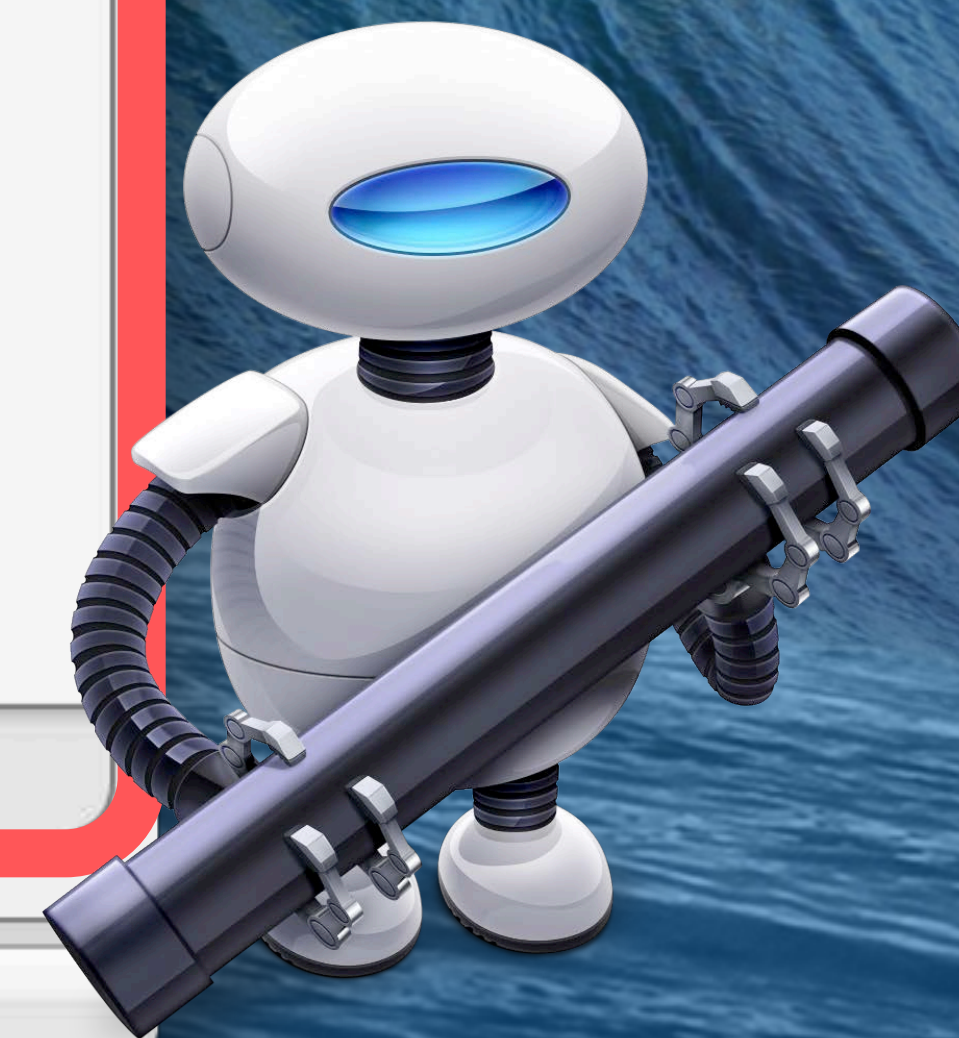
Data rate:video up to 7.0Mbps; audio up to 160kbps/48kHz

Compatible with:iPad, iPhone 4, iPod touch (4th generation), Apple TV (2nd generation), Mac, and PC

Destination:nythawk☒ Same as source file

☐ Delete source files after processing

ResultsOptionsDescription



Encode to 480P and 720P (Application)

Show LibraryMediaRecordStepStopRun

Set Value of Variable (Store Input)

Encode Media (480P HQ)

Rename Finder Items: Add Text (Append 480P to Name)

Get Value of Variable (Retrieve Original Input)

Encode Media (720P HQ)

Setting: 720p

Encode for: Higher quality

Format: H.264/AAC

Resolution: up to 1280x720

Data rate: video up to 7.0Mbps; audio up to 160kbps/48kHz

Compatible with: iPad, iPhone 4, iPod touch (4th generation), Apple TV (2nd generation), Mac, and PC

Destination: nythawk

☒ Same as source file

☐ Delete source files after processing

ResultsOptionsDescription

A small, white, stylized robot with a blue visor and a long, black telescope. The robot is positioned in the bottom right corner of the image, looking through the telescope.

Encode to 480P and 720P (Application)

Show LibraryMediaRecordStepStopRun

▶ Set Value of Variable (Store Input)

▶ Encode Media (480P HQ)

▶ Rename Finder Items: Add Text (Append 480P to Name)

▶ Get Value of Variable (Retrieve Original Input)

▼ Encode Media (720P HQ)

Setting: 720p

Encode for: Higher quality

Format: H.264/AAC

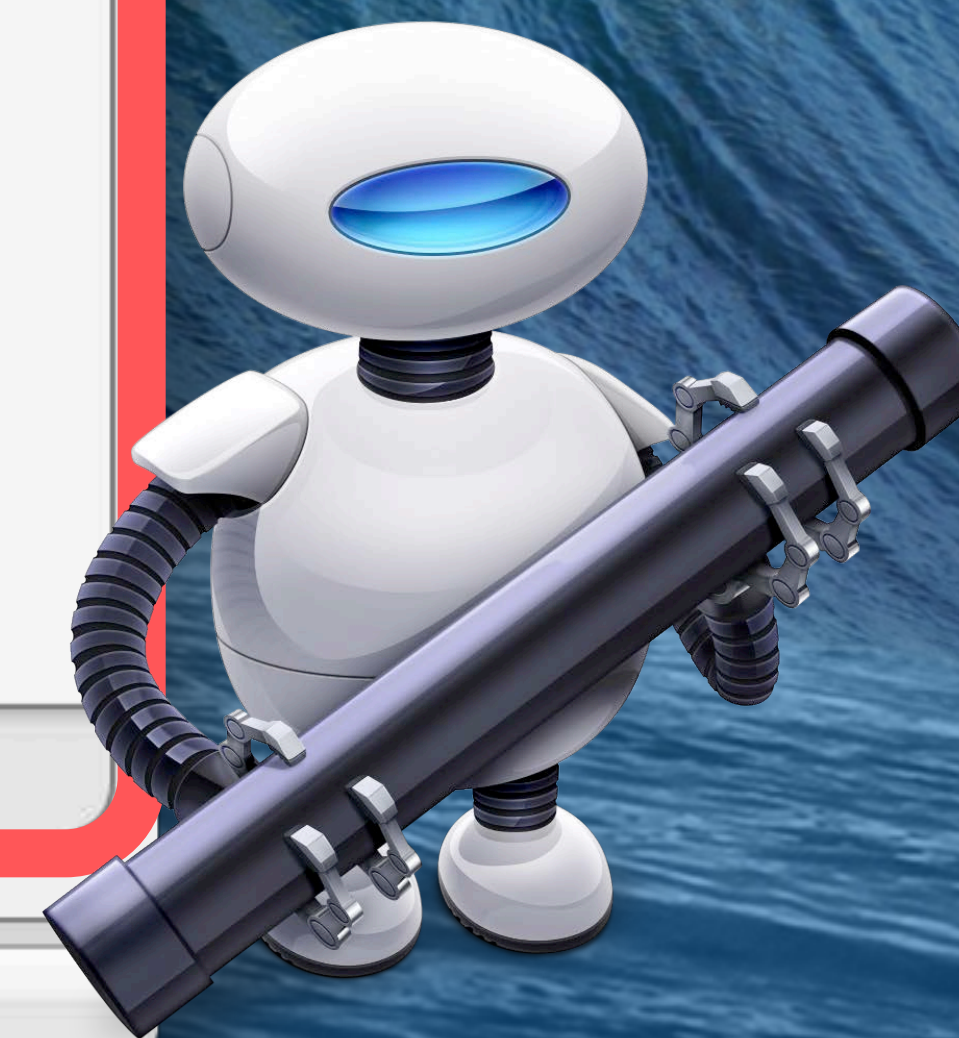
Resolution: up to 1280x720

Data rate: video up to 7.0Mbps; audio up to 160kbps/48kHz

Compatible with: iPad, iPhone 4, iPod touch (4th generation), Apple TV (2nd generation), Mac, and PC

Destination: nythhawk☒ Same as source file☐ Delete source files after processing

ResultsOptionsDescription



Encode to 480P and 720P (Application)

Show LibraryMediaRecordStepStopRun

Set Value of Variable (Store Input)

Encode Media (480P HQ)

Rename Finder Items: Add Text (Append 480P to Name)

Get Value of Variable (Retrieve Original Input)

Encode Media (720P HQ)

Setting:720p

Encode for:Higher quality

Format:H.264/AAC

Resolution:up to 1280x720

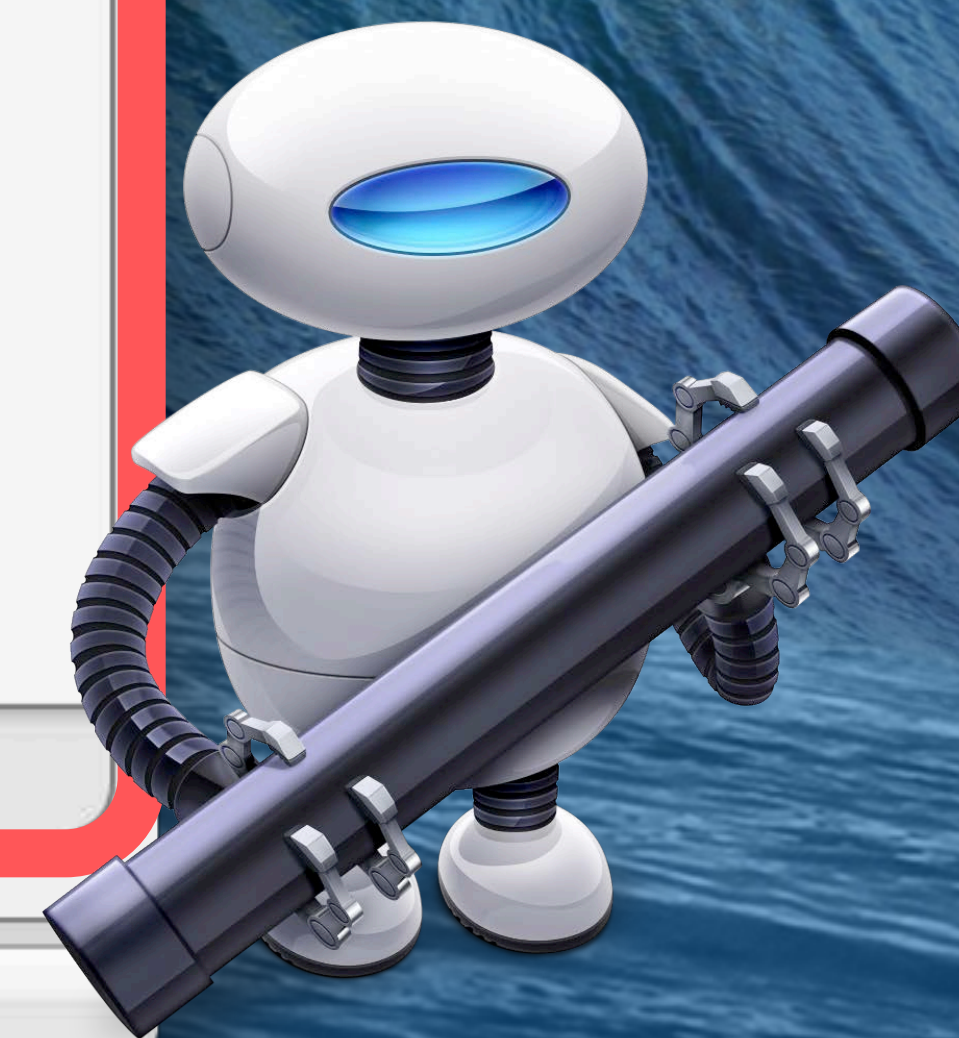
Data rate:video up to 7.0Mbps; audio up to 160kbps/48kHz

Compatible with:iPad, iPhone 4, iPod touch (4th generation), Apple TV (2nd generation), Mac, and PC

Destination:nyhthawk☒ Same as source file

☐ Delete source files after processing

ResultsOptionsDescription



Encode to 480P and 720P (Application) ▾

Show Library MediaRecord Step Stop Run

Filter Finder Items (Filter for Movie Files)

▶ Set Value of Variable (Store Input) ×

▶ Encode Media (480P HQ) ×

▶ Rename Finder Items: Add Text (Append 480P to Name) ×

▶ Get Value of Variable (Retrieve Original Input) ×

▶ Encode Media (720P HQ) ×

▼ Rename Finder Items: Add Text (Append 720P to Name) ×

Add Text ▾

Add: after name ▾

Example: Item Name-720P.xxx

ResultsOptionsDescription



Encode to 480P and 720P (Application)

Show Library MediaRecord Step Stop Run

Filter Finder Items (Filter for Movie Files)

▶ Set Value of Variable (Store Input)

▶ Encode Media (480P HQ)

▶ Rename Finder Items: Add Text (Append 480P to Name)

▶ Get Value of Variable (Retrieve Original Input)

▶ Encode Media (720P HQ)

▼ Rename Finder Items: Add Text (Append 720P to Name)

Add Text

Add: after name

Example: Item Name-720P.xxx

ResultsOptionsDescription



Encode to 480P and 720P (Application) ▾

Show Library MediaRecord Step Stop Run

Filter Finder Items (Filter for Movie Files)

▶ Set Value of Variable (Store Input) ×

▶ Encode Media (480P HQ) ×

▶ Rename Finder Items: Add Text (Append 480P to Name) ×

▶ Get Value of Variable (Retrieve Original Input) ×

▶ Encode Media (720P HQ) ×

▼ Rename Finder Items: Add Text (Append 720P to Name) ×

Add Text ▾

Add: after name ▾

Example: Item Name-720P.xxx

ResultsOptionsDescription



Encode to 480P and 720P (Application) ▾

Show Library MediaRecord Step Stop Run

Application receives files and folders as input

▶



Filter Finder Items (Filter for Movie Files)

✕

▶



Set Value of Variable (Store Input)

✕

▶



Encode Media (480P HQ)

✕

▶



Rename Finder Items: Add Text (Append 480P to Name)

✕

▶



Get Value of Variable (Retrieve Original Input)

✕

▶



Encode Media (720P HQ)

✕

▶



Rename Finder Items: Add Text (Append 720P to Name)

✕



Encode to 480P and 720P (Application) ▾

Show Library Media

Record Step Stop Run

Application receives files and folders as input

▶  Filter Finder Items (Filter for Movie Files) ×

▶  Set Value of Variable (Store Input) ×

▶  Encode Media (480P HQ) ×

▶  Rename Finder Items: Add Text (Append 480P to Name) ×

▶  Get Value of Variable (Retrieve Original Input) ×

▶  Encode Media (720P HQ) ×

▶  Rename Finder Items: Add Text (Append 720P to Name) ×



Encode to 480P and 720P (Application) ▾

Show Library Media

Record Step Stop Run

Application receives files and folders as input

▶  Filter Finder Items (Filter for Movie Files) ×

▶  Set Value of Variable (Store Input) ×

▶  Encode Media (480P HQ) ×

▶  Rename Finder Items: Add Text (Append 480P to Name) ×

▶  Get Value of Variable (Retrieve Original Input) ×

▶  Encode Media (720P HQ) ×

▶  Rename Finder Items: Add Text (Append 720P to Name) ×

≡

≡



Encode to 480P and 720P (Application) ▾

Show Library Media

Record Step Stop Run

Application receives files and folders as input

▶  **Filter Finder Items (Filter for Movie Files)** 

▶  **Set Value of Variable (Store Input)** 

▶  **Encode Media (480P HQ)** 

▶  **Rename Finder Items: Add Text (Append 480P to Name)** 

▶  **Get Value of Variable (Retrieve Original Input)** 

▶  **Encode Media (720P HQ)** 

▶  **Rename Finder Items: Add Text (Append 720P to Name)** 





Encode to 480P and 720P (Application) ▾

Hide Library Media

Record Step Stop Run

ActiVariables

notification

Library

Calendar

Contacts

Developer

Files & Folders

Fonts

Internet

Mail

Movies

Music

PDFs

Photos

Presentations

Display Notification

Display Notification

This action displays a Notification Center notification.

Input: Anything

Options: The notification may have a title, subtitle, and detailed message. At least one of the title or the message must be filled in.

Result: Anything

Version: 1.0

Copyright: Copyright © 2012 Apple. All rights reserved.

Filter Finder Items

Set Value of Variable

Encode Media (iCloud)

Rename Finder Items

Get Value of Variable

Encode Media (iCloud)

Rename Finder Items



Encode to 480P and 720P (Application)

Record Step Stop Run

Hide Library Media

ActiVariables

notification

Library

Calendar

Contacts

Developer

Files & Folders

Fonts

Internet

Mail

Movies

Music

PDFs

Photos

Presentations

Display Notification

Display Notification

This action displays a Notification Center notification.

Input: Anything

Options: The notification may have a title, subtitle, and detailed message. At least one of the title or the message must be filled in.

Result: Anything

Version: 1.0

Copyright: Copyright © 2012 Apple. All rights reserved.

Filter Finder Items

Set Value of Variable

Encode Media (i)

Rename Finder Items

Get Value of Variable

Encode Media (i)

Rename Finder Items



Encode to 480P and 720P (Application) ▾

Hide Library Media

Record Step Stop Run

ActiVariables 🔍 notification

Library

Calendar

Contacts

Developer

Files & Folders

Fonts

Internet

Mail

Movies

Music

PDFs

Photos

Presentations

Display Notification

Filter Finder It

Set Value of Va

Encode Media (

Rename Finder

Get Value of Va

Encode Media (

Rename Finder

 **Display Notification**

This action displays a Notification Center notification.

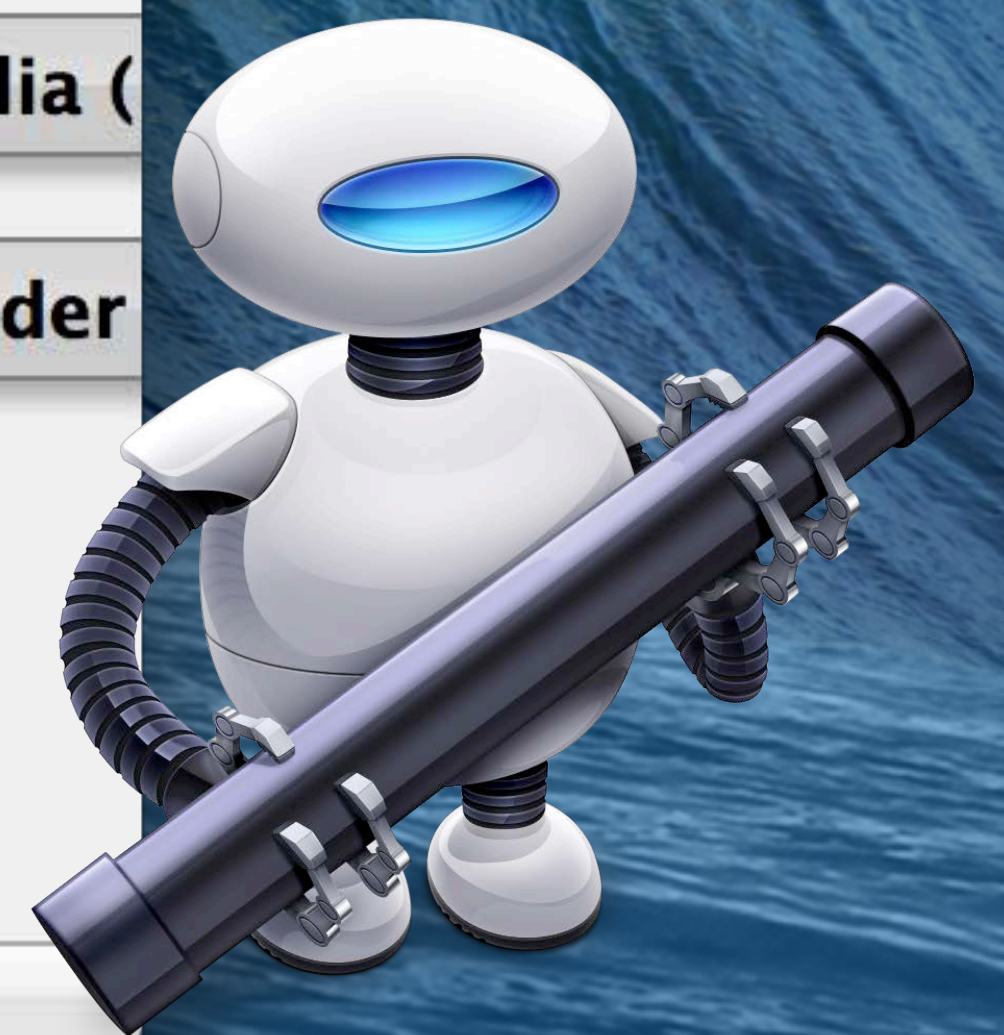
Input: Anything

Options: The notification may have a title, subtitle, and detailed message. At least one of the title or the message must be filled in.

Result: Anything

Version: 1.0

Copyright: Copyright © 2012 Apple. All rights reserved.



Encode to 480P and 720P (Application)

Record Step Stop Run

Hide Library Media

ActiVariablesnotification

Library

Calendar

Contacts

Developer

Files & Folders

Fonts

Internet

Mail

Movies

Music

PDFs

Photos

Presentations

Display Notification

Filter Finder It

Set Value of Va

Encode Media (

Rename Finder

Get Value of Va

Encode Media (

Rename Finder

Display Notification

This action displays a Notification Center notification.

Input: Anything

Options: The notification may have a title, subtitle, and detailed message. At least one of the title or the message must be filled in.

Result: Anything

Version: 1.0

Copyright: Copyright © 2012 Apple. All rights reserved.

A small, white, stylized robot with a blue visor and a long telescope, standing on a blue background.

Encode to 480P and 720P (Application) ▾

Hide Library Media Record Step Stop Run

Act Variables notification

Library

- Calendar
- Contacts
- Developer
- Files & Folders
- Fonts
- Internet
- Mail
- Movies
- Music
- PDFs
- Photos
- Presentations

Display Notification

Filter Finder Items

Set Value of Variable

Encode Media (H.264)

Rename Finder Items

Get Value of Variable

Encode Media (H.264)

Rename Finder Items

 **Display Notification**

This action displays a Notification Center notification.

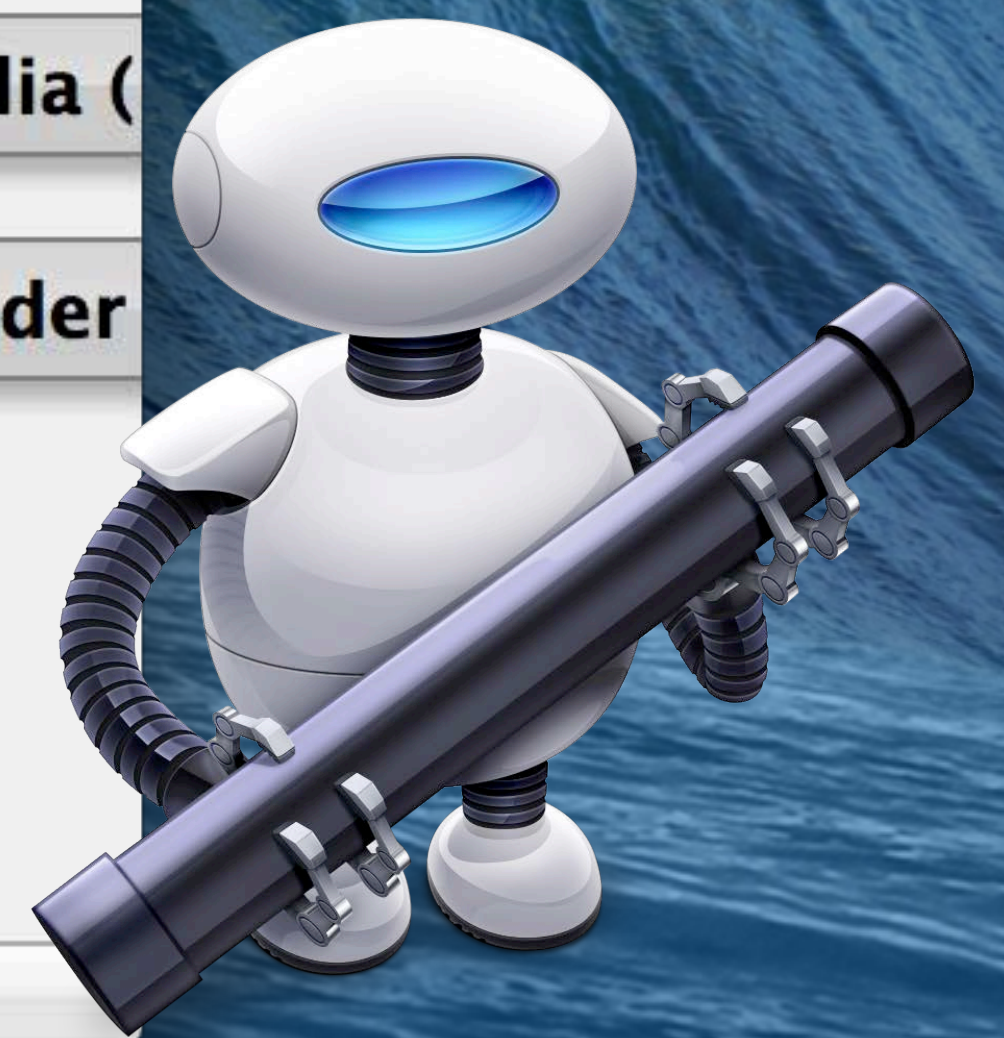
Input: Anything

Options: The notification may have a title, subtitle, and detailed message. At least one of the title or the message must be filled in.

Result: Anything

Version: 1.0

Copyright: Copyright © 2012 Apple. All rights reserved.



Encode to 480P and 720P (Application) — Edited

Record Step Stop Run

Hide Library Media

Library

Calendar

Contacts

Developer

Files & Folders

Fonts

Internet

Mail

Movies

Music

PDFs

Photos

Presentations

notification

Display Notification

Set Value of Variable

Encode Media ()

Rename Finder

Get Value of Variable

Encode Media ()

Rename Finder

Display Notification

Display Notification

This action displays a Notification Center notification.

Input: Anything

Options: The notification may have a title, subtitle, and detailed message. At least one of the title or the message must be filled in.

Result: Anything

Version: 1.0

Copyright: Copyright © 2012 Apple. All rights reserved.

Title:

Subtitle:

Message:

Results Options

A small, white, stylized robot with a blue visor and a large black telescope. The robot is positioned in the bottom right corner of the Automator window, appearing to look through the telescope.

Encode to 480P and 720P (Application) — Edited

Record Step Stop Run

Hide Library Media

Activity Variables notification

Library

Calendar
Contacts
Developer
Files & Folders
Fonts
Internet
Mail
Movies
Music
PDFs
Photos
Presentations

Display Notification

Display Notification

This action displays a Notification Center notification.

Input: Anything

Options: The notification may have a title, subtitle, and detailed message. At least one of the title or the message must be filled in.

Result: Anything

Version: 1.0

Copyright: Copyright © 2012 Apple. All rights reserved.

Set Value of Variable

Encode Media ()

Rename Finder

Get Value of Variable

Encode Media ()

Rename Finder

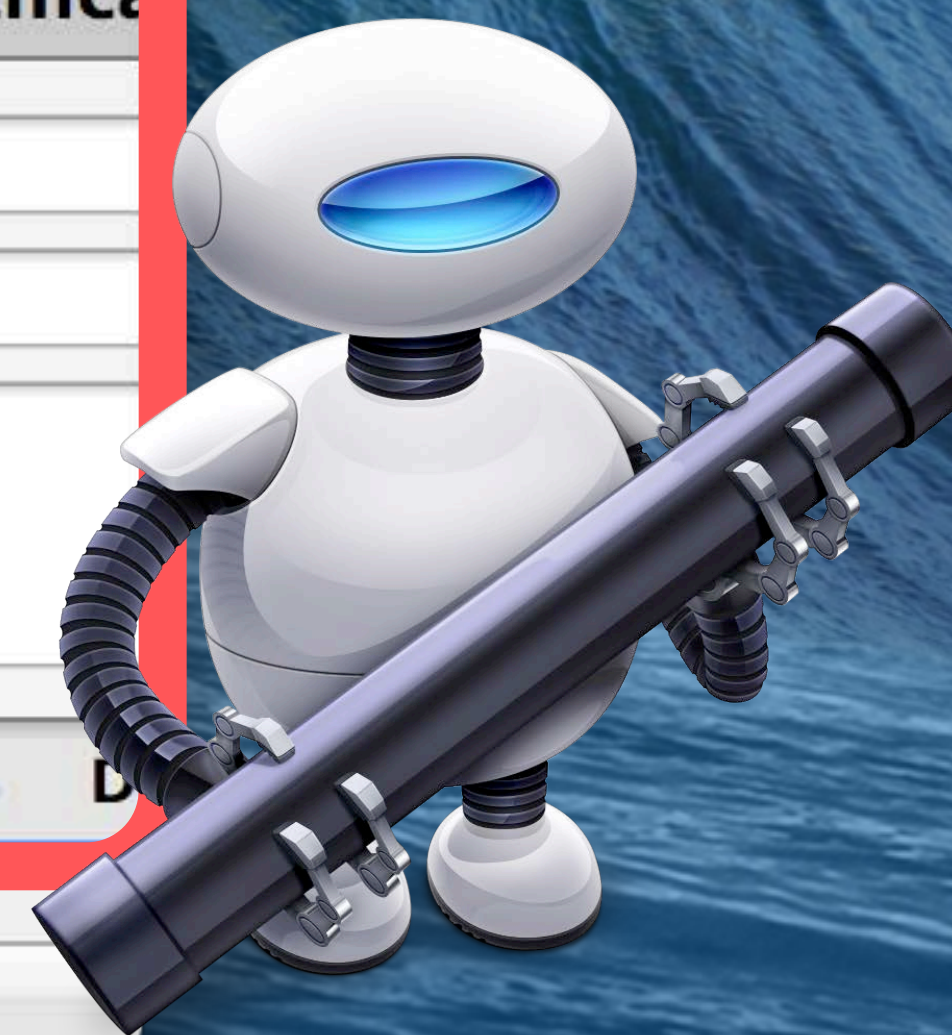
Display Notification

Title:

Subtitle:

Message:

Results Options



Encode to 480P and 720P (Application) — Edited ▾

Show Library Media

Record Step Stop Run

▶  Get Value of Variable (Store Input) 

▶  Encode Media (480P HQ) 

▶  Rename Finder Items: Add Text (Append 480P to Name) 

▶  Get Value of Variable (Retrieve Original Input) 

▶  Encode Media (720P HQ) 

▶  Rename Finder Items: Add Text (Append 720P to Name) 

▼  Display Notification 

Title:

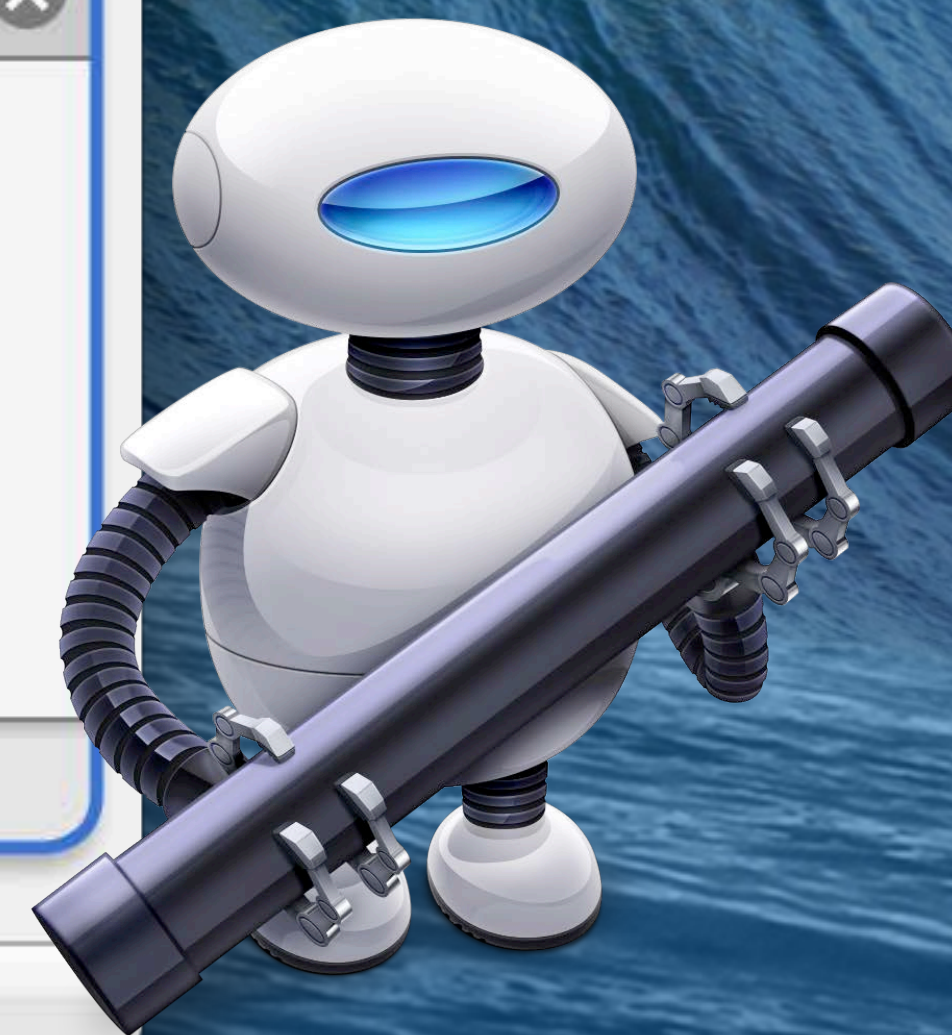
Subtitle:

Message:

Results

Options

Description



Encode to 480P and 720P (Application) — Edited ▾

Show Library Media

Record Step Stop Run

▶  Get Value of Variable (Store Input) ✕

▶  Encode Media (480P HQ) ✕

▶  Rename Finder Items: Add Text (Append 480P to Name) ✕

▶  Get Value of Variable (Retrieve Original Input) ✕

▶  Encode Media (720P HQ) ✕

▶  Rename Finder Items: Add Text (Append 720P to Name) ✕

▼  Display Notification ✕

Title:

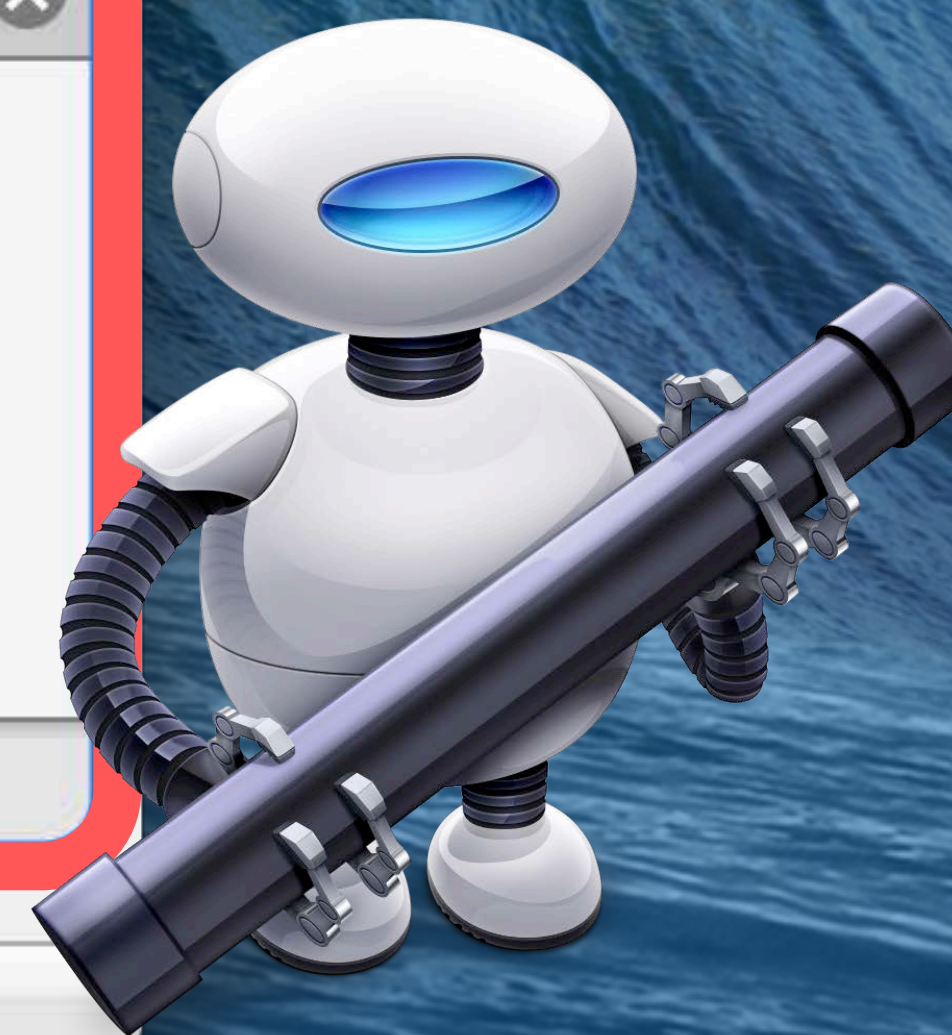
Subtitle:

Message:

Results

Options

Description



Encode to 480P and 720P (Application) — Edited ▾

Show Library Media

Record Step Stop Run

▶  Get Value of Variable (Store Input) 

▶  Encode Media (480P HQ) 

▶  Rename Finder Items: Add Text (Append 480P to Name) 

▶  Get Value of Variable (Retrieve Original Input) 

▶  Encode Media (720P HQ) 

▶  Rename Finder Items: Add Text (Append 720P to Name) 

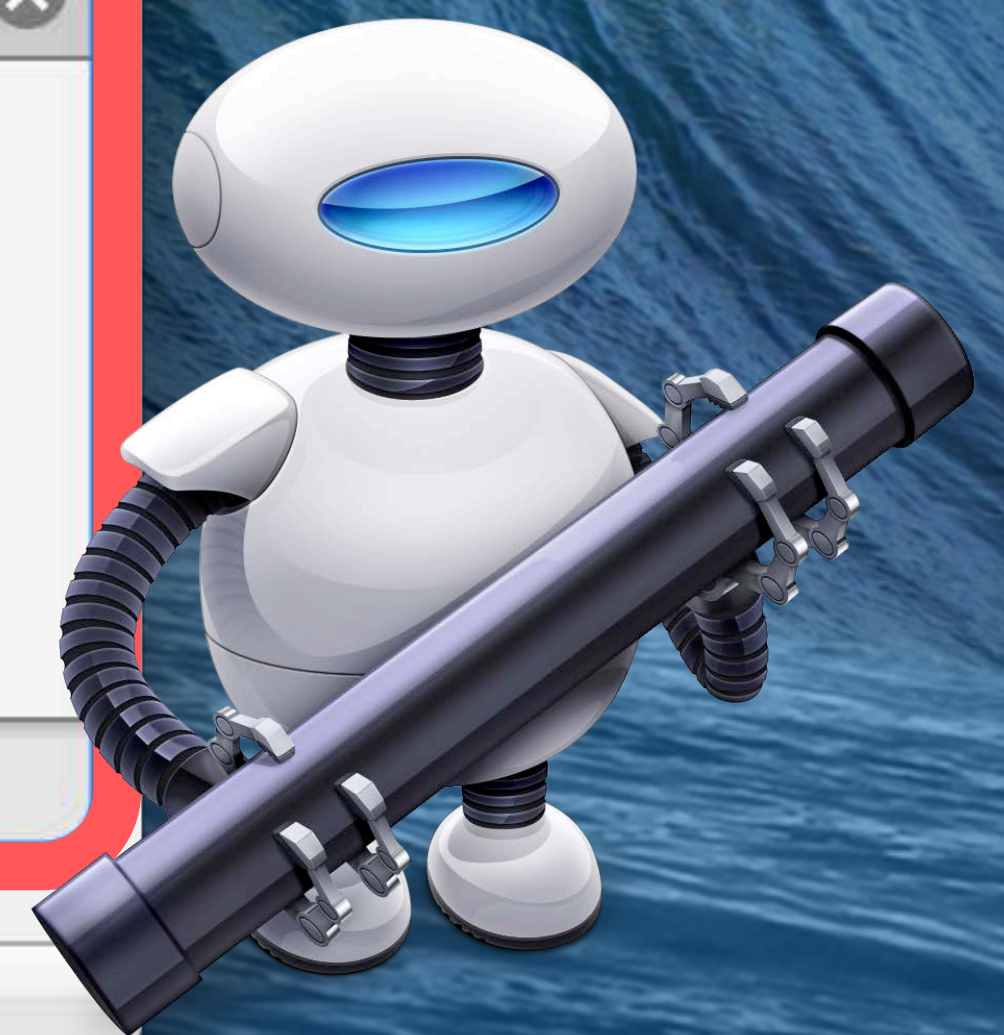
▼  Display Notification 

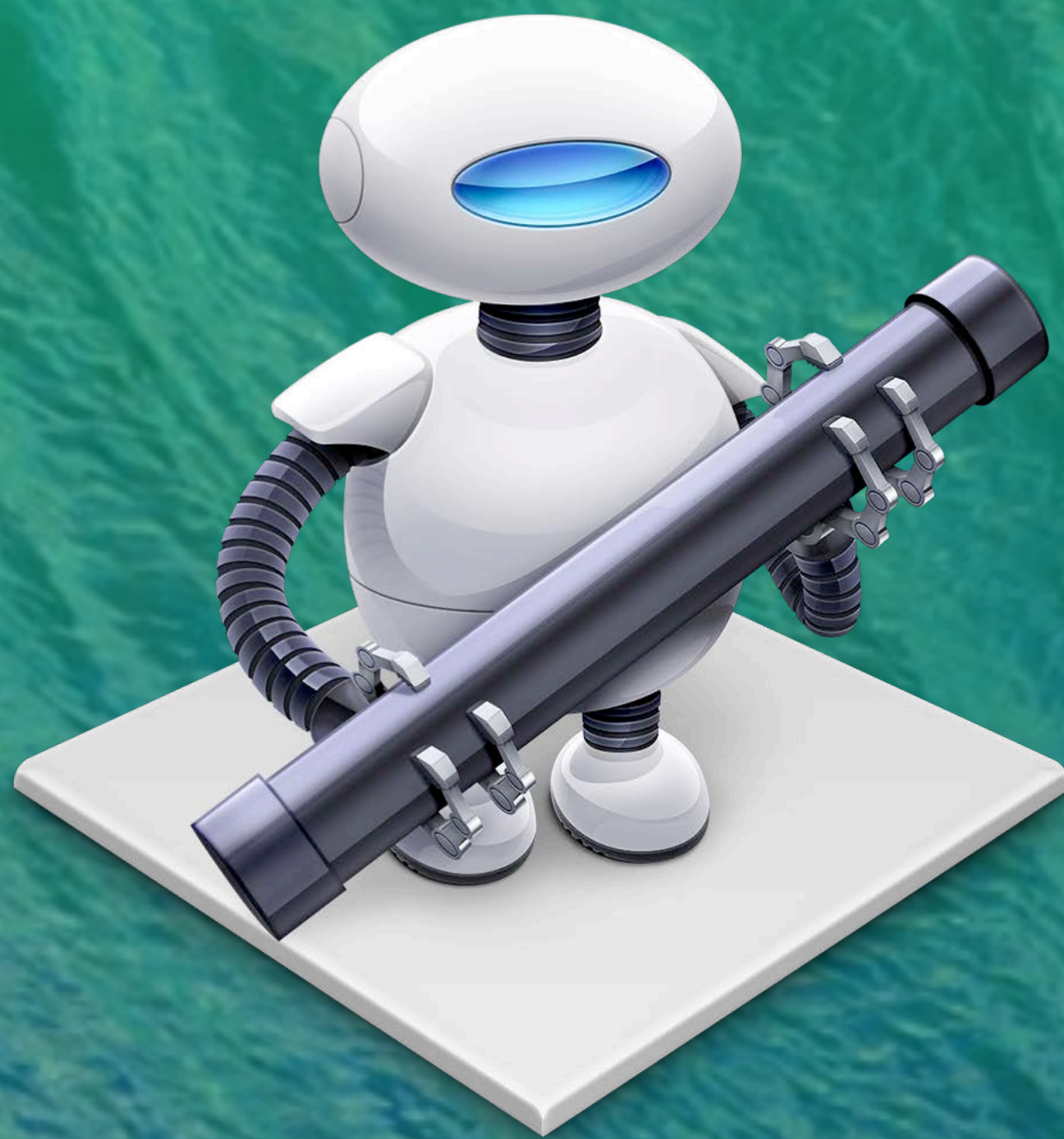
Title:

Subtitle:

Message:

Results Options Description



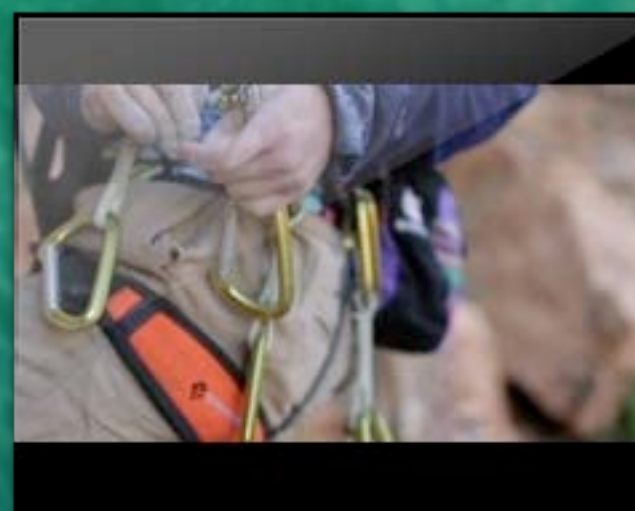




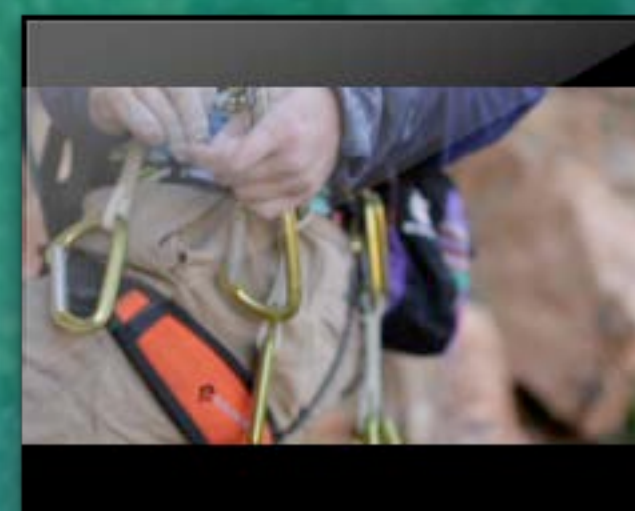
Multiple Pass Encoding

Encode to 480P and 720P

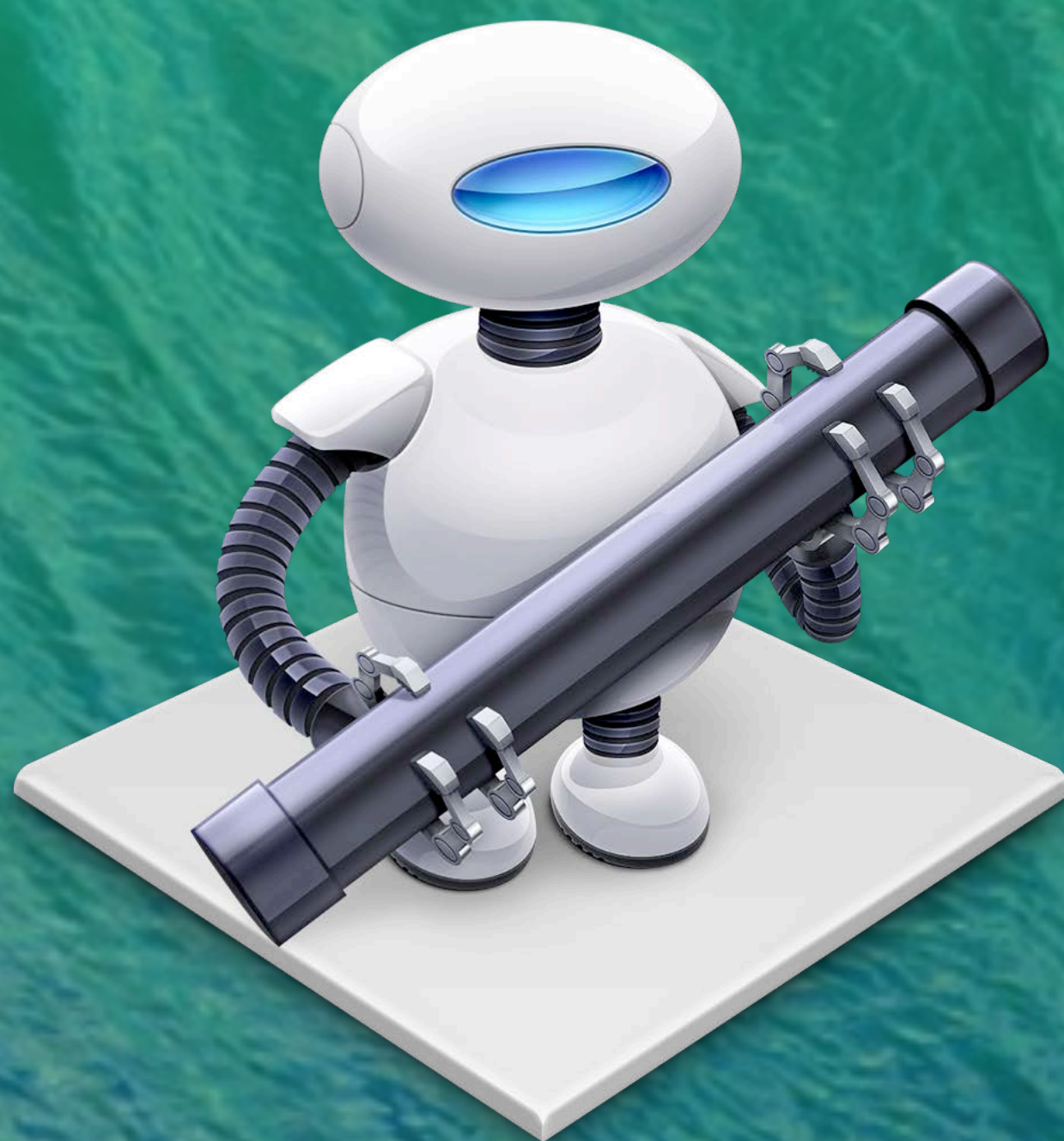
Video encoding completed



Climbing-480P.m4v



Climbing-720P.m4v

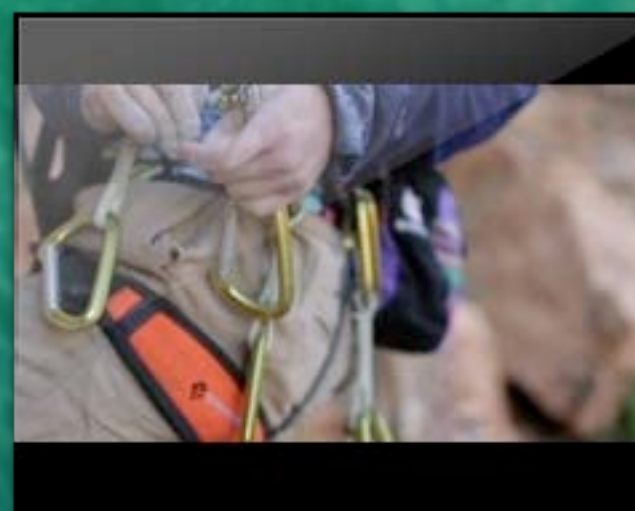




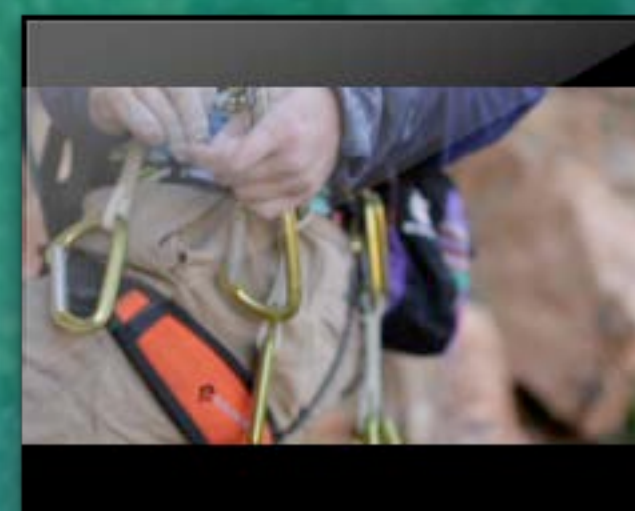
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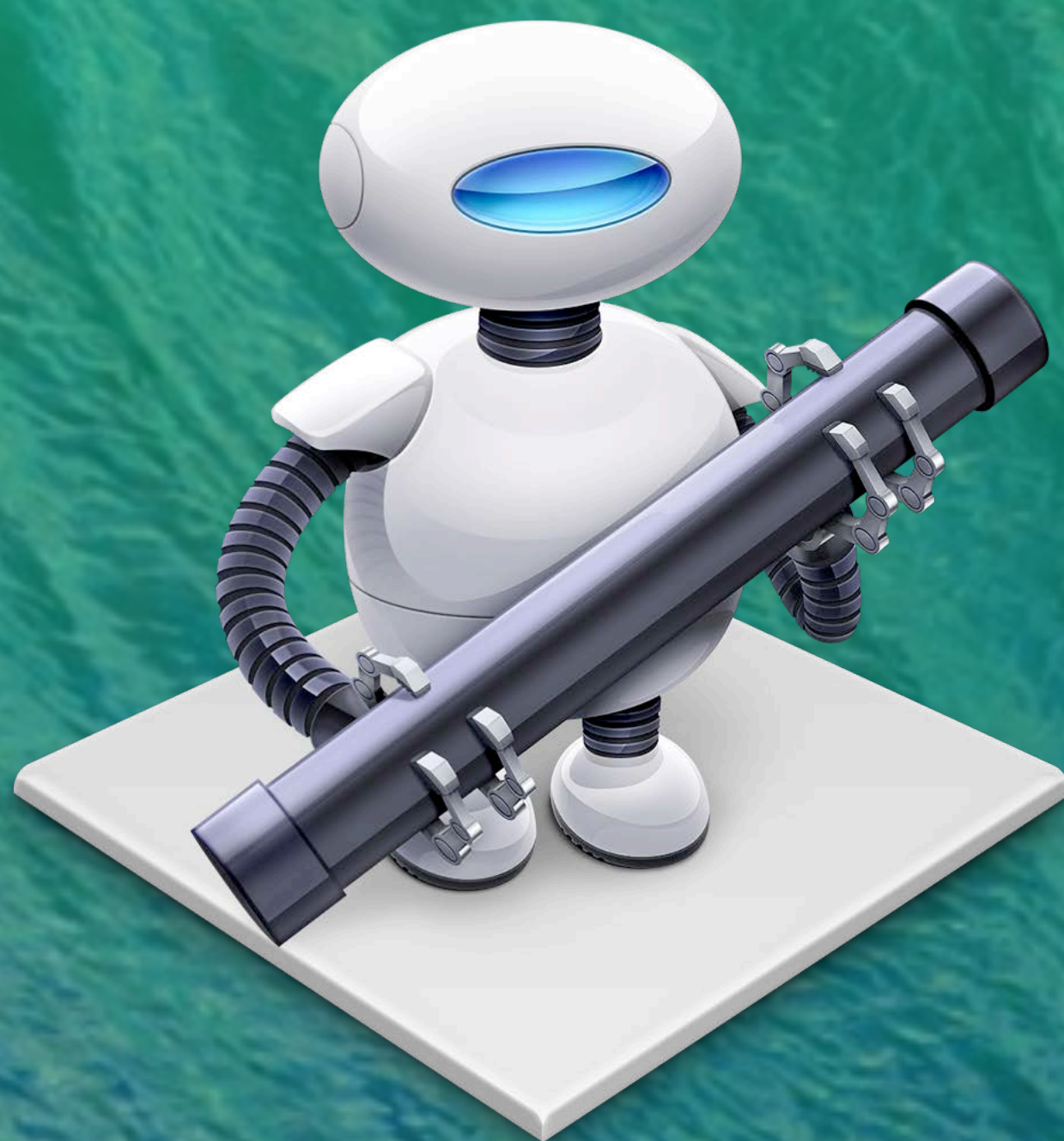
Video encoding completed

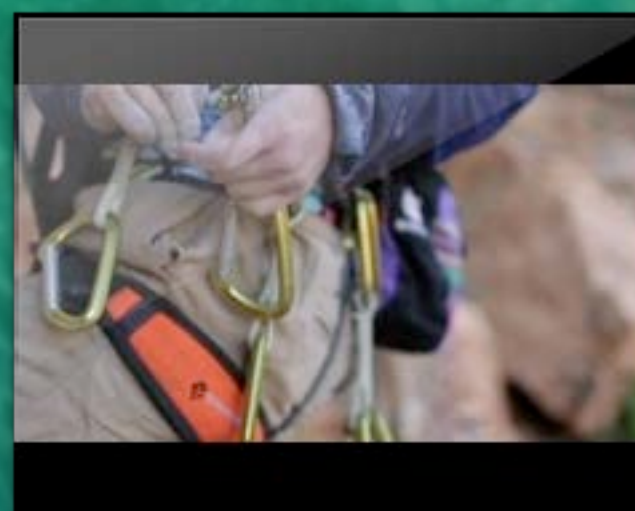
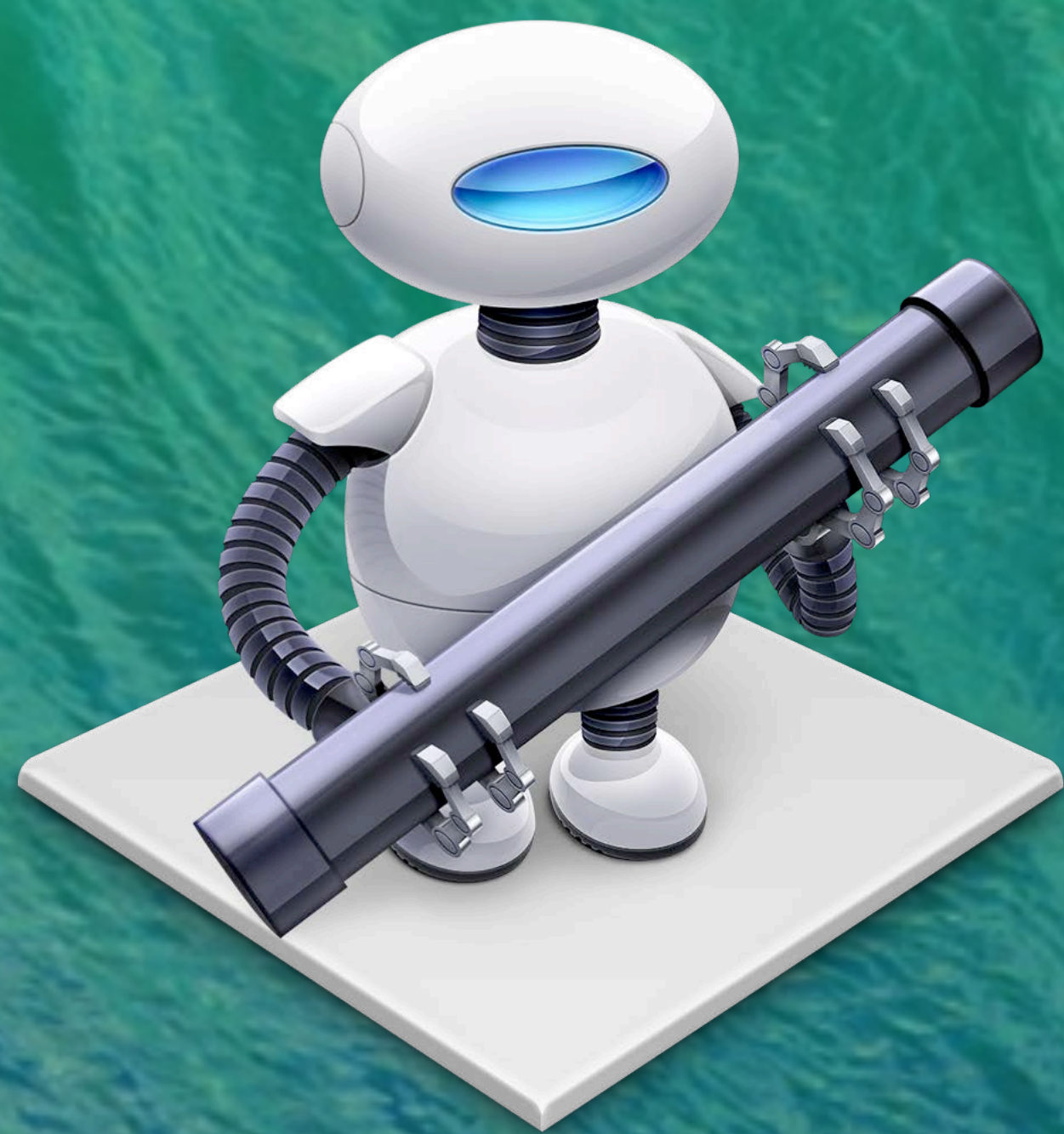


Climbing-480P.m4v

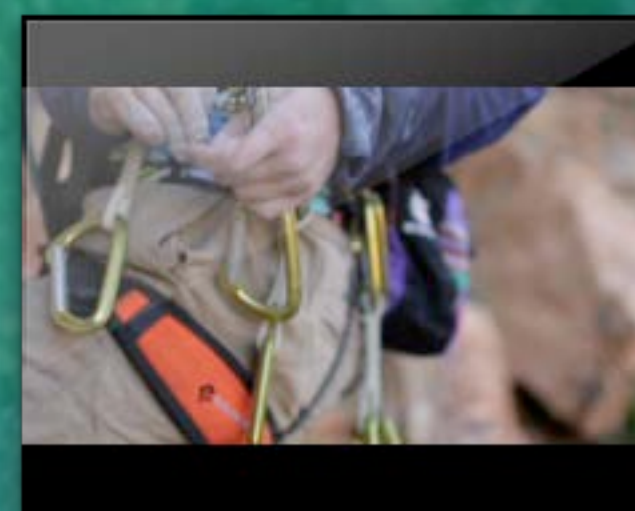


Climbing-720P.m4v

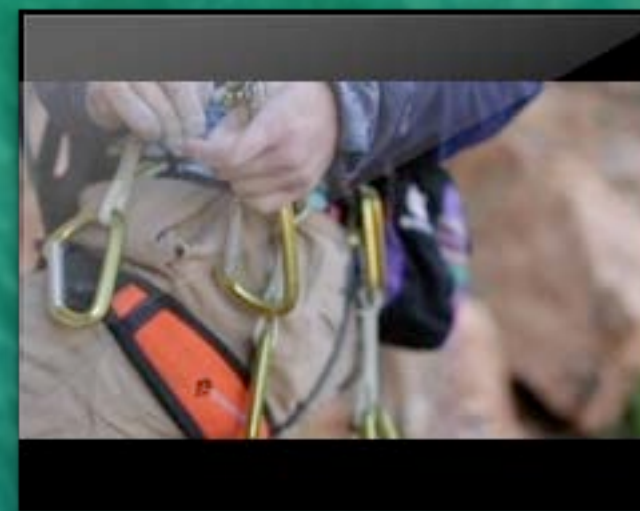
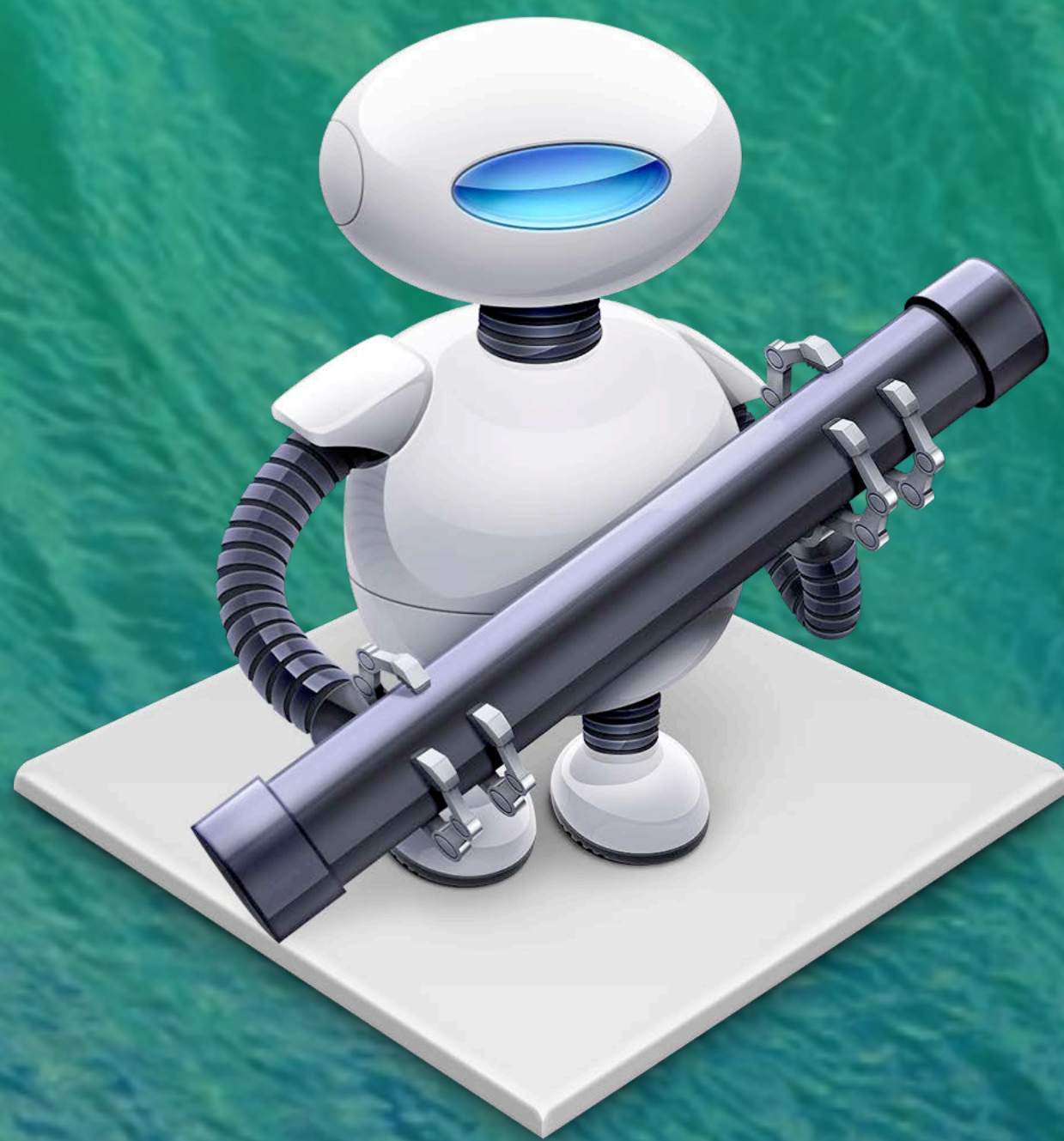




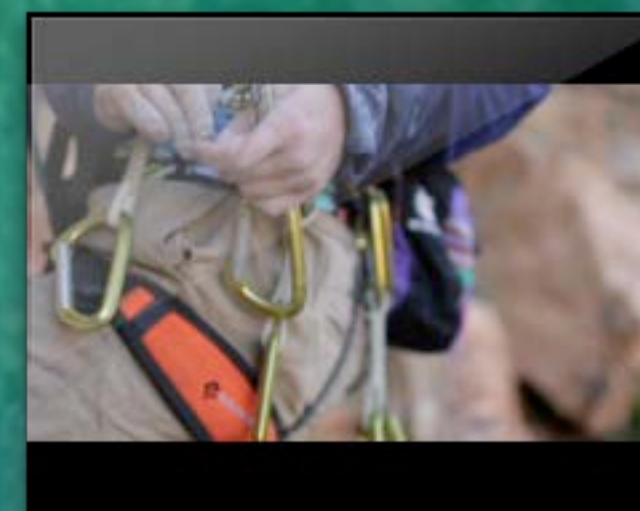
Climbing-480P.m4v



Climbing-720P.m4v



Climbing-480P.m4v



Climbing-720P.m4v



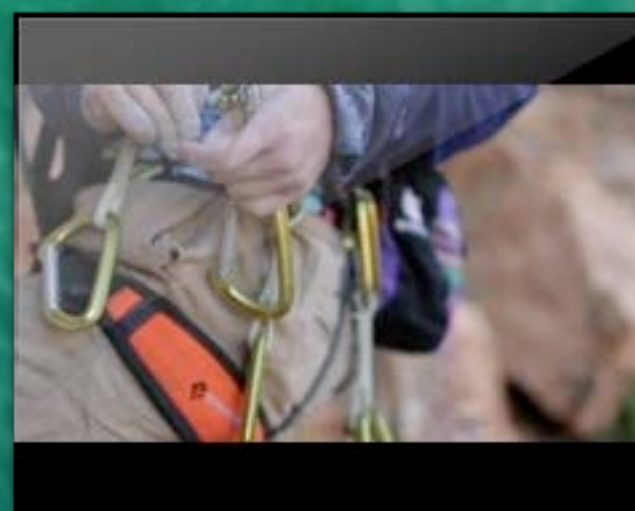
Video Encoding Process

Encode to 480P and 720P

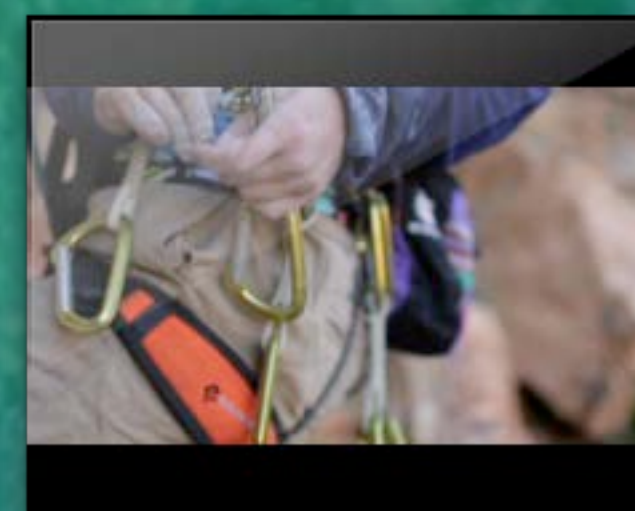
Encoding has completed.

Close

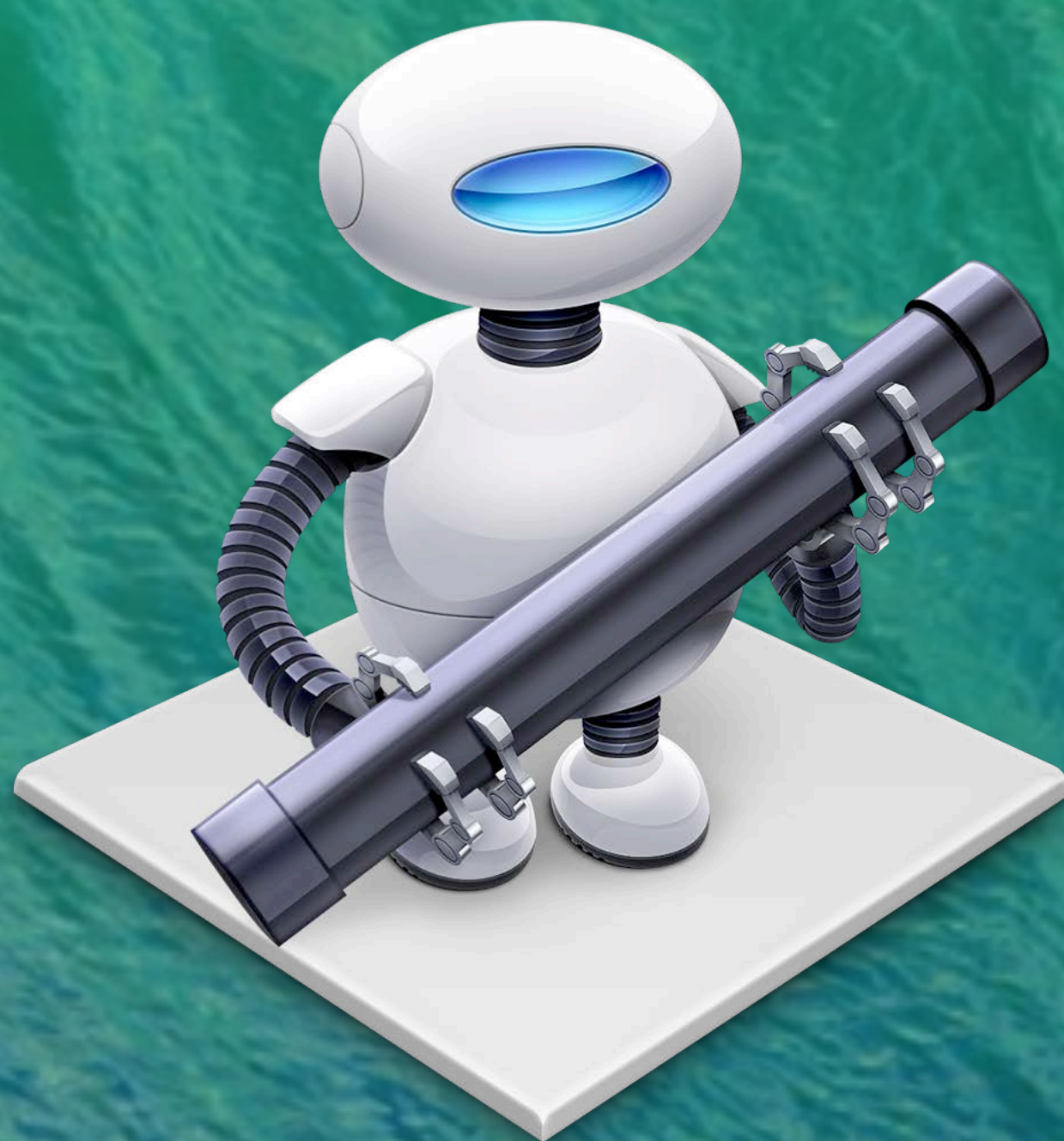
Show



Climbing-480P.m4v



Climbing-720P.m4v



AppleScript

Display notification alert

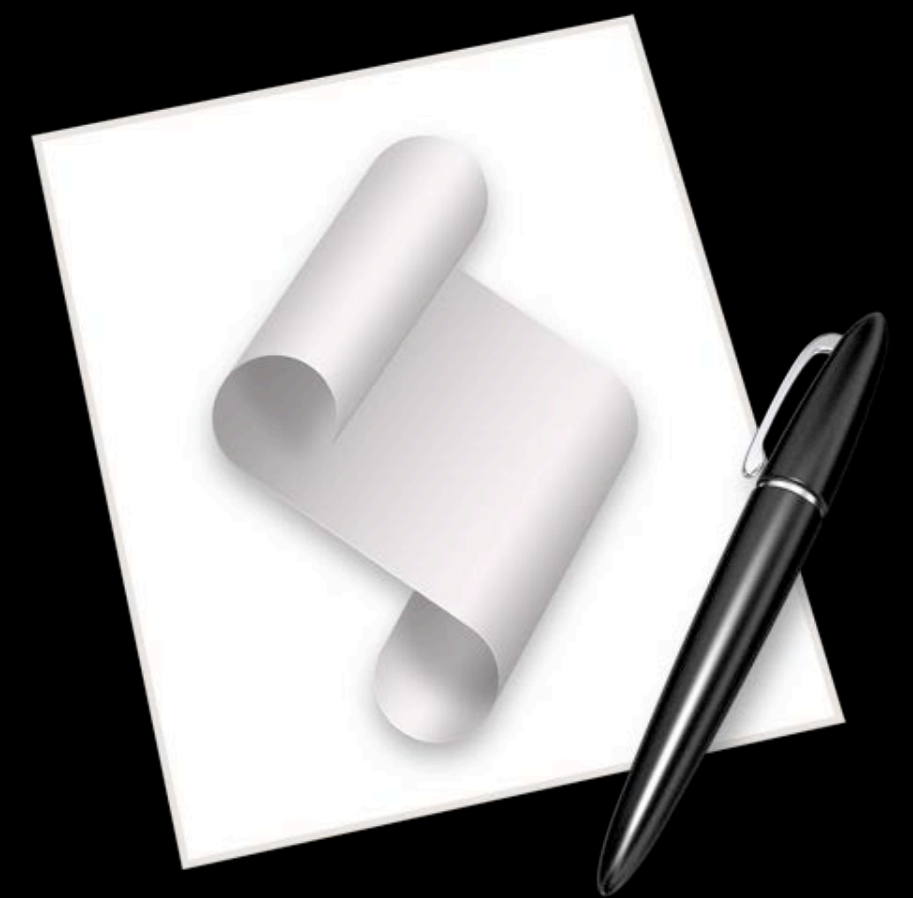
display notification v : Display a notification. At least one of the body text and the title must be specified.

display notification [text] : the body text of the notification

[**with title** text] : the title of the notification (default is the name of the calling application).

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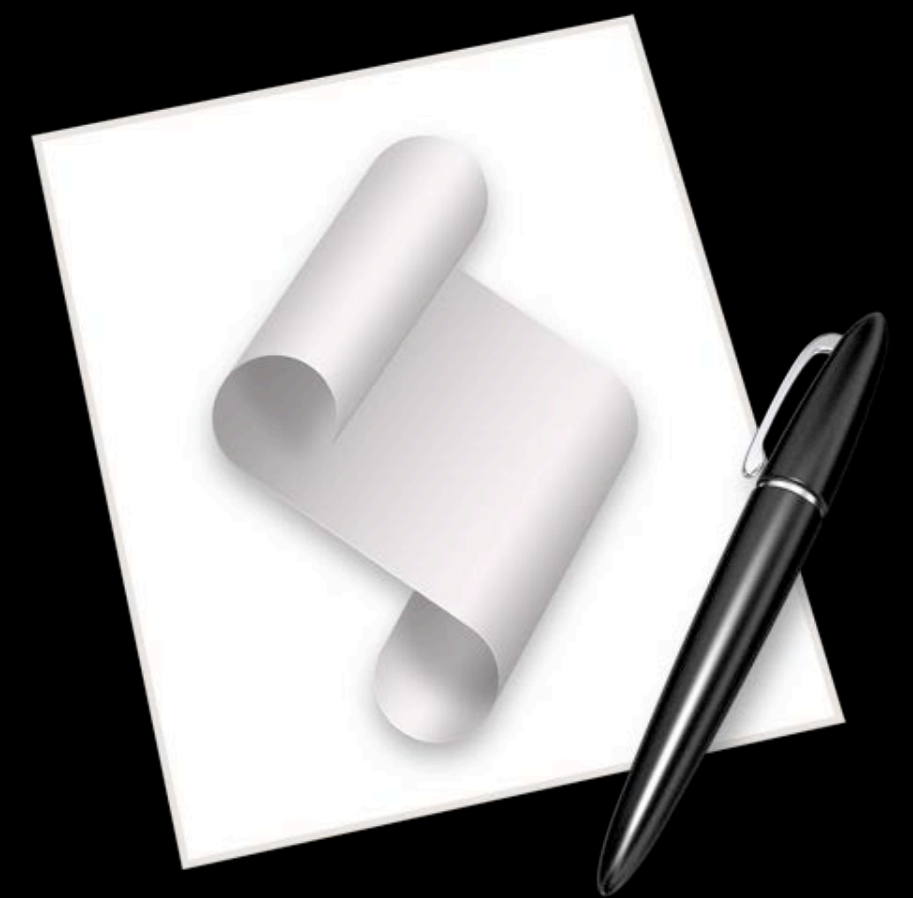
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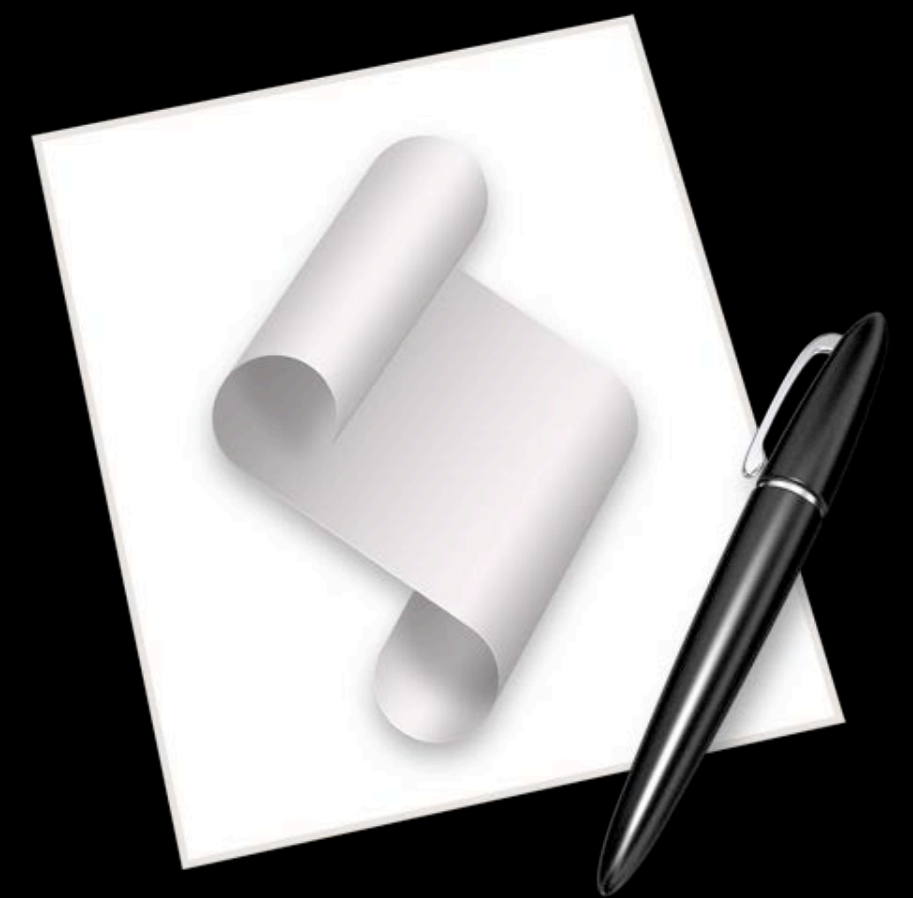
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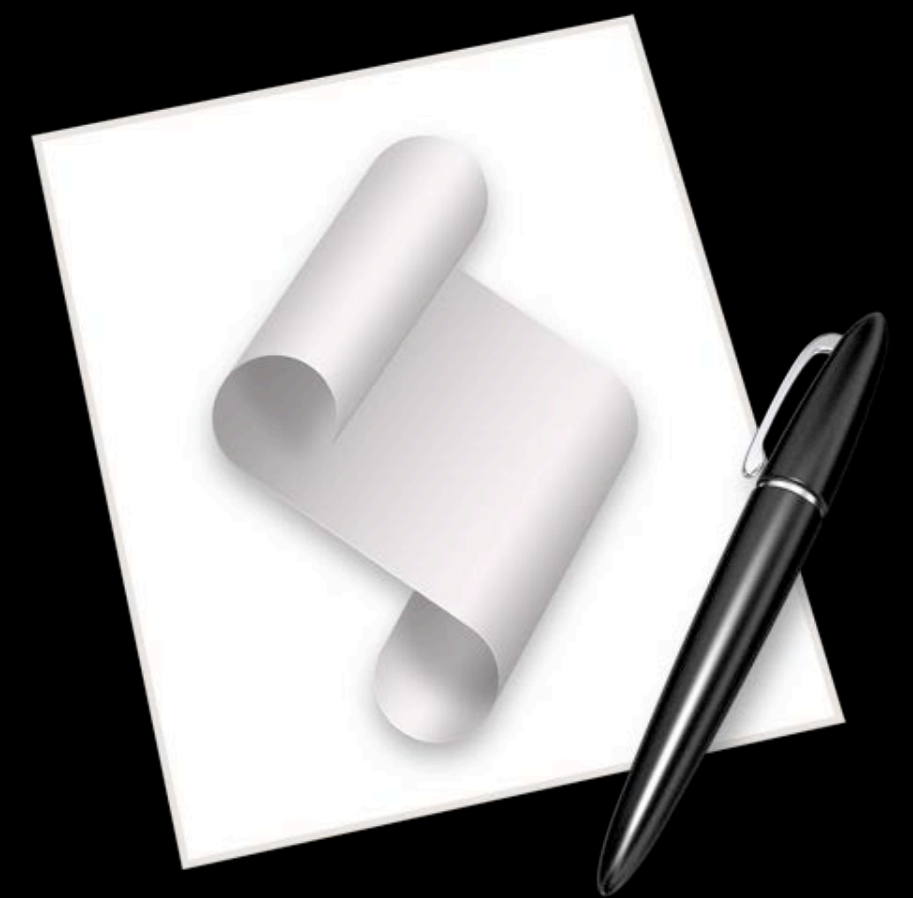
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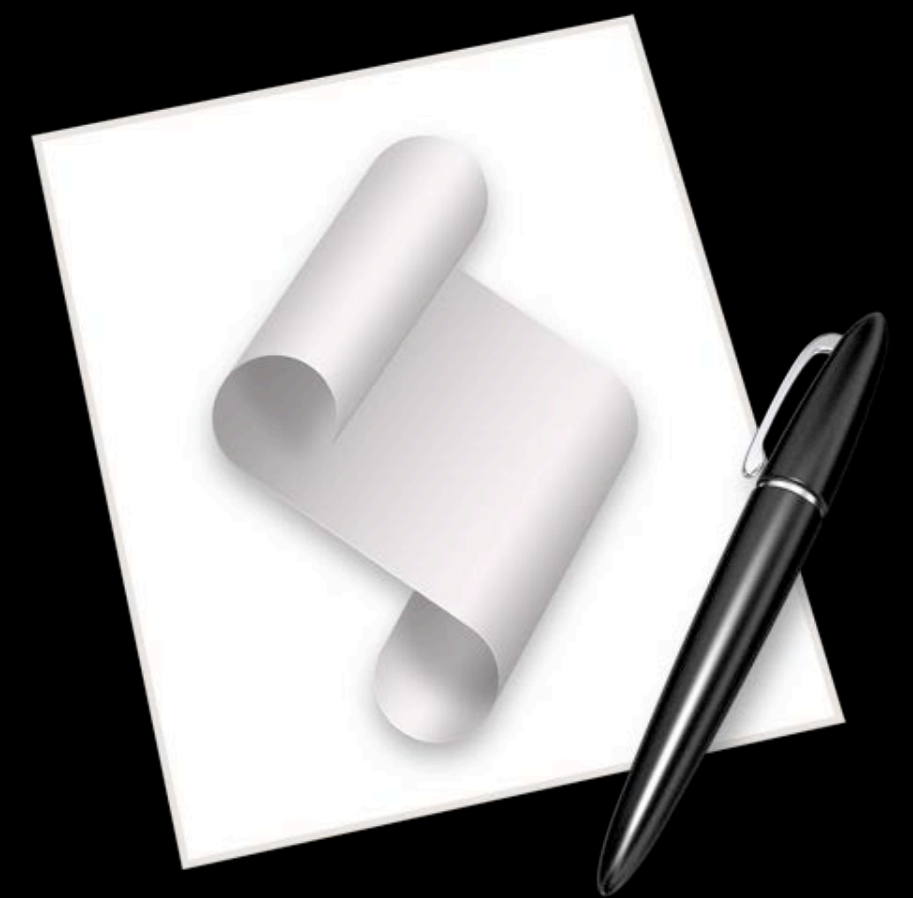
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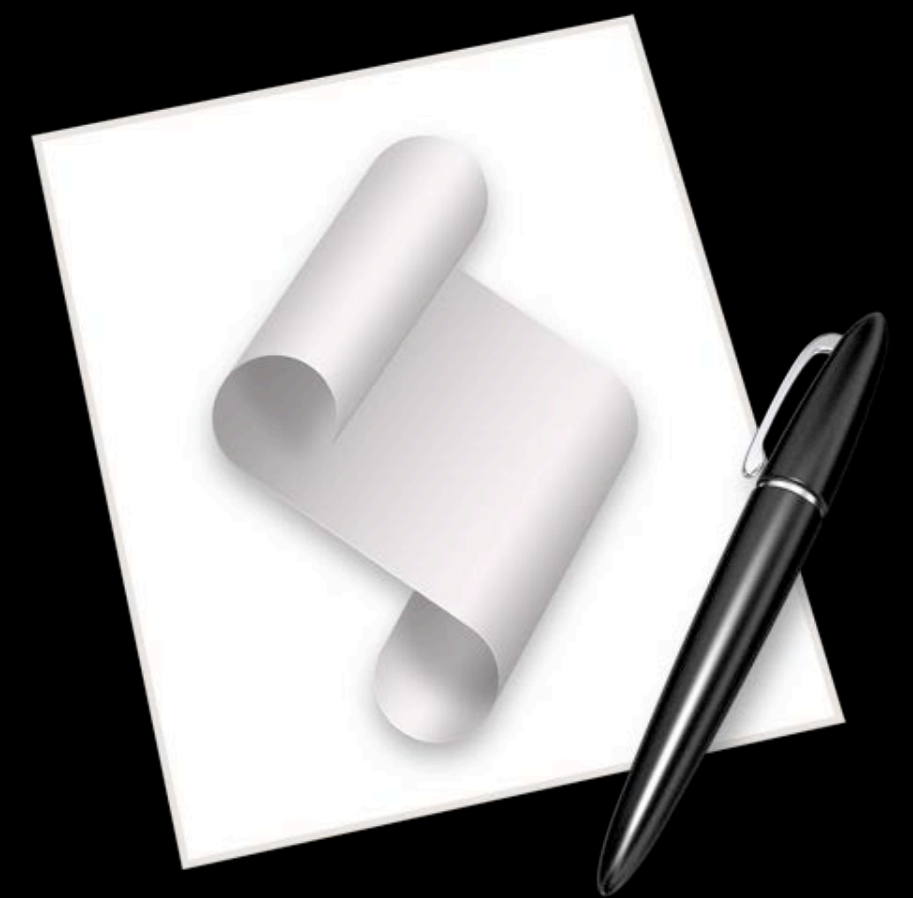
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Photo Prep Droplet

27 images were processed.

AppleScript

Display notification alert

```
on open theseItems
    set the defaultRGBColor to {0, 0, 65535}
    set the frameThickness to 48
    try
        repeat with thisItem in theseItems
            tell application "Image Events"
                launch
                set thisImage to open file (thisItem as string)
                copy dimensions of thisImage to {W, H}
                pad thisImage to dimensions {W + frameThickness, H + frameThickness} -
                    with pad color defaultRGBColor
                save thisImage with icon
                close thisImage
            end tell
        end repeat
    on error errorMessage
        display dialog errorMessage
    end try
end open
```


AppleScript

Display notification alert

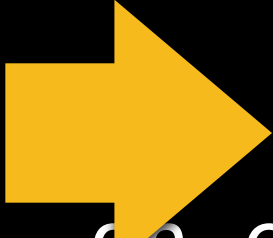
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on open theseItems
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    set the frameThickness to 48
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                copy dimensions of thisImage to {W, H}
                pad thisImage to dimensions {W + frameThickness, H + frameThickness} -
                    with pad color defaultRGBColor
                save thisImage with icon
                close thisImage
            end tell
        end repeat
        display notification ((count of theseItems) as string) & " images were processed."
    on error errorMessage
        display dialog errorMessage
    end try
end open
```


AppleScript

Display notification alert

```
on open theseItems
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    set the frameThickness to 48
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                pad thisImage to dimensions {W + frameThickness, H + frameThickness} -
                    with pad color defaultRGBColor
                save thisImage with icon
                close thisImage
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```




Photo Prep Droplet

**Photo Prep Droplet**

27 mages were processed.



Photo Prep Droplet

Demo

Notifiations

Chris Nebel
Senior Automation Engineer

Notification Support

Automator and AppleScript



Notification Support

Automator and AppleScript

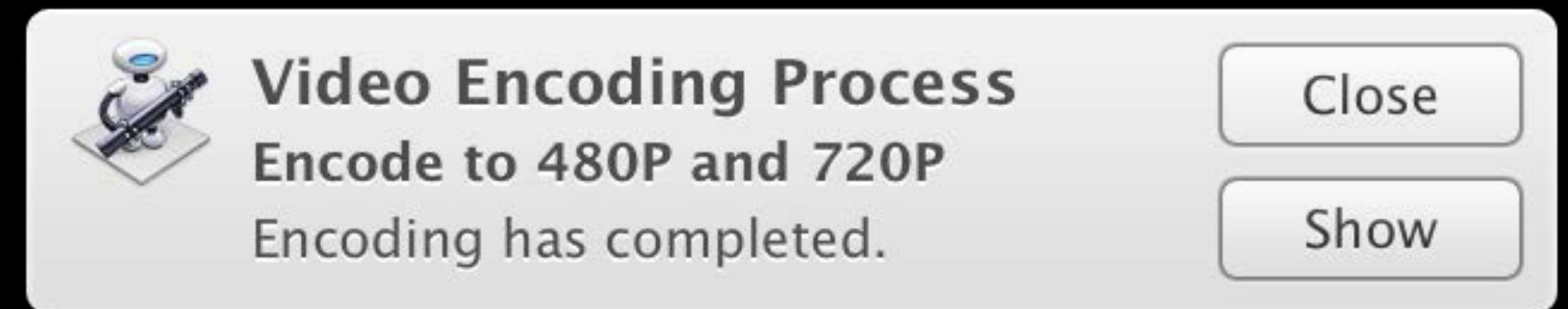
- Integrated notification support



Notification Support

Automator and AppleScript

- Integrated notification support
 - Automator



Notification Support

Automator and AppleScript



- Integrated notification support
 - Automator
 - AppleScript



Video Encoding Process
Encode to 480P and 720P
Encoding has completed.

Close

Show



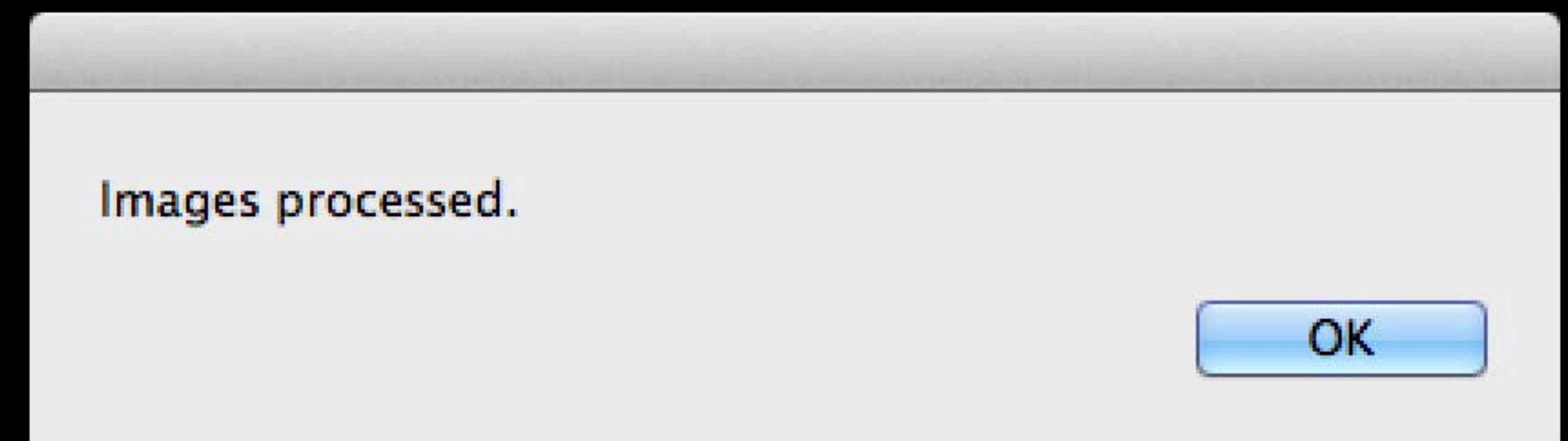
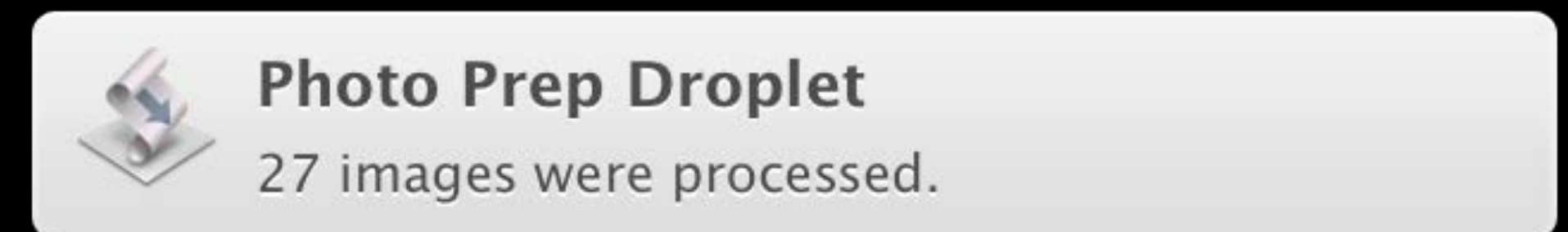
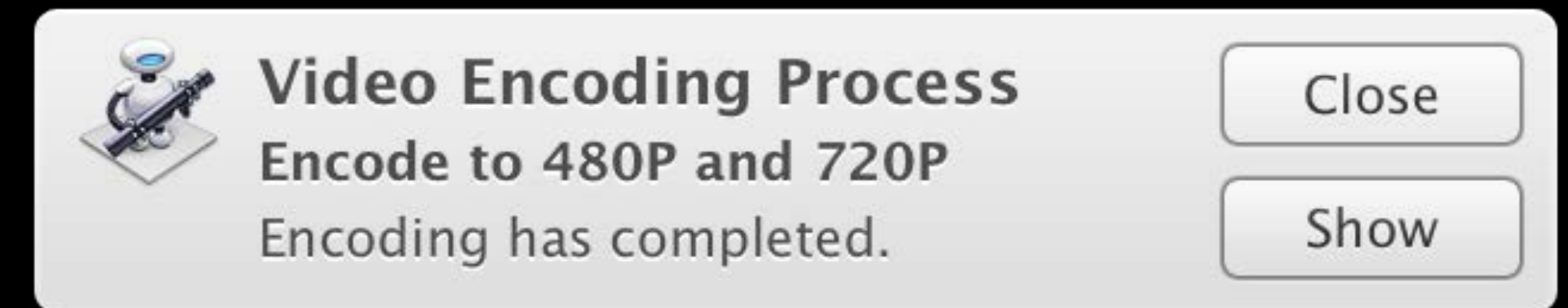
Photo Prep Droplet
27 images were processed.

Notification Support

Automator and AppleScript



- Integrated notification support
 - Automator
 - AppleScript
- No need for modal “completion” dialogs

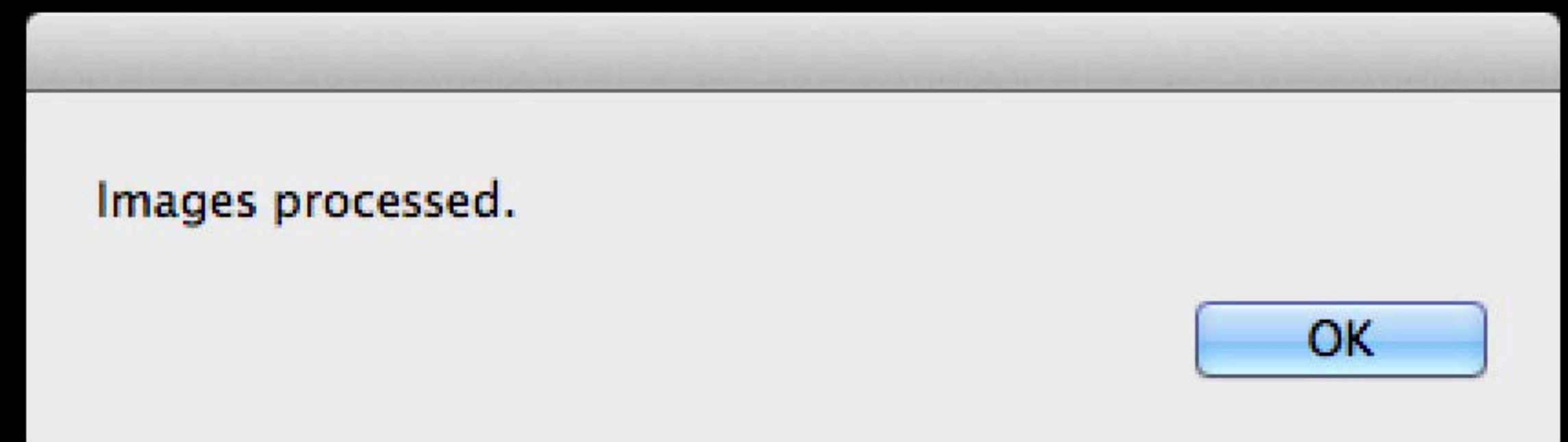
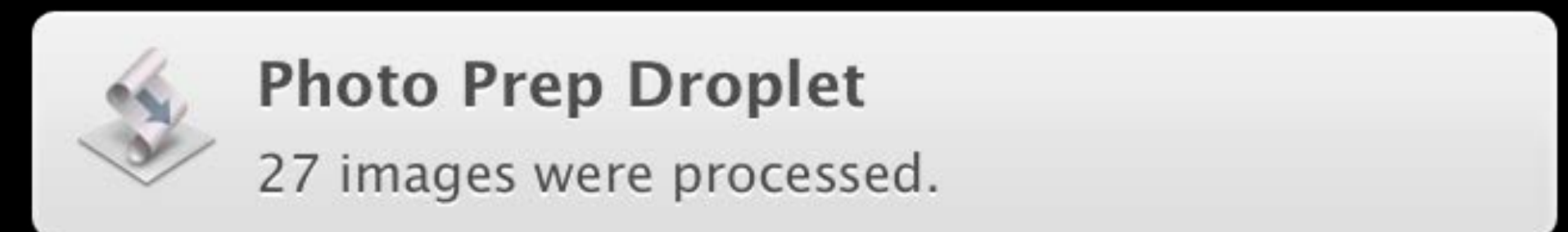
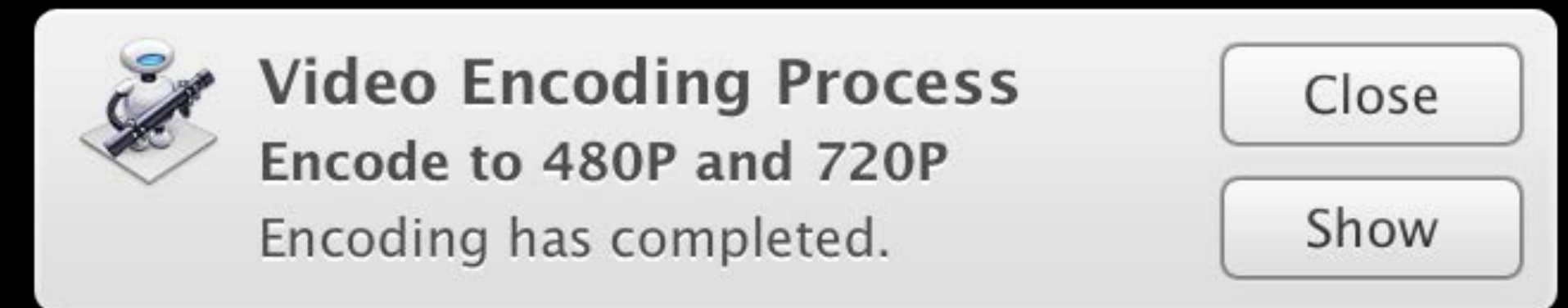
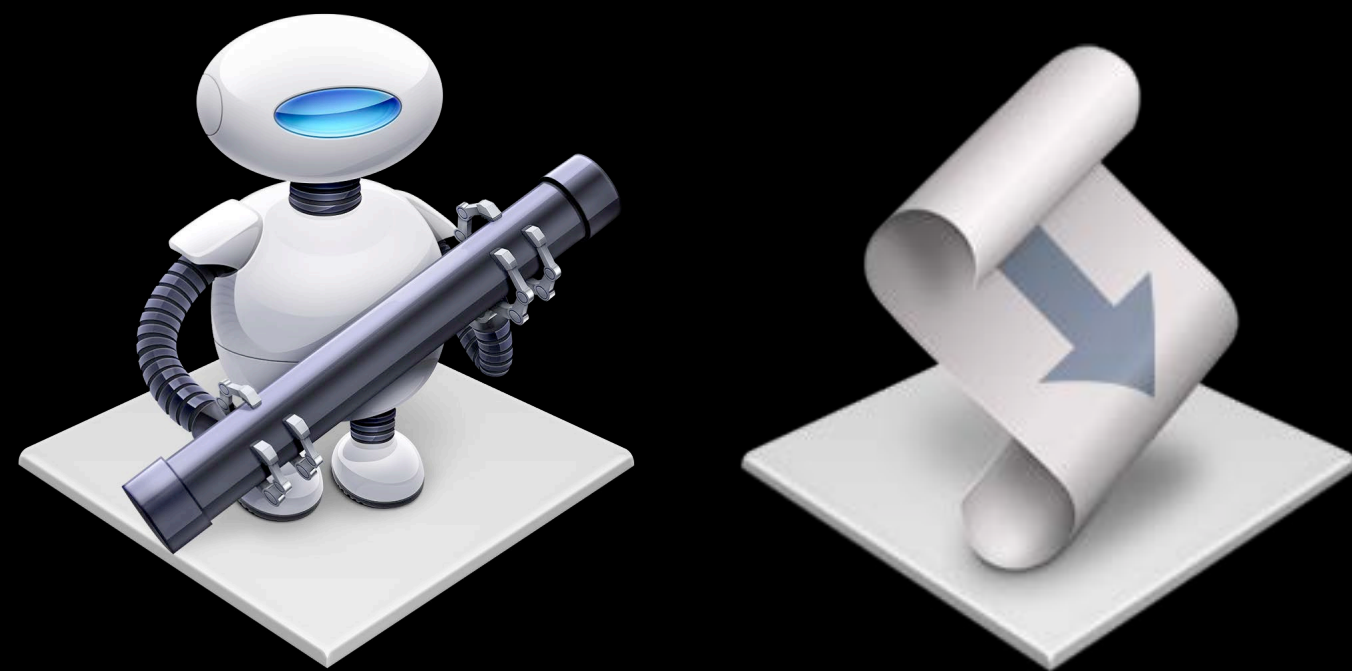


Notification Support

Automator and AppleScript



- Integrated notification support
 - Automator
 - AppleScript
- No need for modal “completion” dialogs
- Now “100% Bounce-Free”





Accessibility Integration

Speakable Items



Speakable Items

"Audio chat with Sue" "Minimize window" "Switch to Notes" "Merge all windows"

"Switch to Finder"

"Quit Pages" "Zoom Window"

"Hide all windows"

"Phone for Trudy Anchover"

"Go to Apple website"

"Set alarm to 20 minutes"



"Share Menu"

"Meet with Carl Wayland"

"What time is it?"

"Tell me a joke" "Close Window"

"Open iPhoto"

"Mail this to Mom"

"Connect to server"

Reader

Speakable Items



Speakable Items



Speakable-Workflows

System Preferences

◀

▶

Show All

Q



General



Desktop & Screen Saver



Dock



Mission Control



Language & Region



Security & Privacy



Spotlight



Notifications



Displays



Energy Saver



Keyboard



Mouse



Trackpad



Printers & Scanners



Sound



iCloud



Internet Accounts



Network



Bluetooth



Sharing



Parental Controls



App Store



Dictation & Speech



Date & Time



Startup Disk



Time Machine



Accessibility



System Preferences

◀

▶

Show All

Q


General


Desktop & Screen Saver


Dock


Mission Control


Language & Region


Security & Privacy


Spotlight


Notifications


Displays


Energy Saver


Keyboard


Mouse


Trackpad


Printers & Scanners


Sound


iCloud


Internet Accounts


Network


Bluetooth


Sharing


Parental Controls


App Store


Dictation & Speech


Date & Time


Startup Disk


Time Machine


Accessibility



System Preferences

◀▶

Show All


General


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Dock


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Trackpad


Printers & Scanners


Sound


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Bluetooth


Sharing


Parental Controls


App Store


Dictation & Speech


Date & Time


Startup Disk


Time Machine


Accessibility



VoiceOver

Hearing

Audio

Captions

Interacting

Keyboard

Mouse & Trackpad

Switch Control

Speakable Items

Show Accessibility status in menu bar

Accessibility

Show All

SettingsListening KeyCommands

Speakable Items lets you control your computer and applications by speaking English commands that open applications, choose menu items, and more.

Speakable Items: ☐ On ☒ Off

Microphone: Internal microphone

Calibrate...

Upon Recognition:

☐ Speak command acknowledgement

Play this sound: Whit

Accessibility

Show All

VoiceOver

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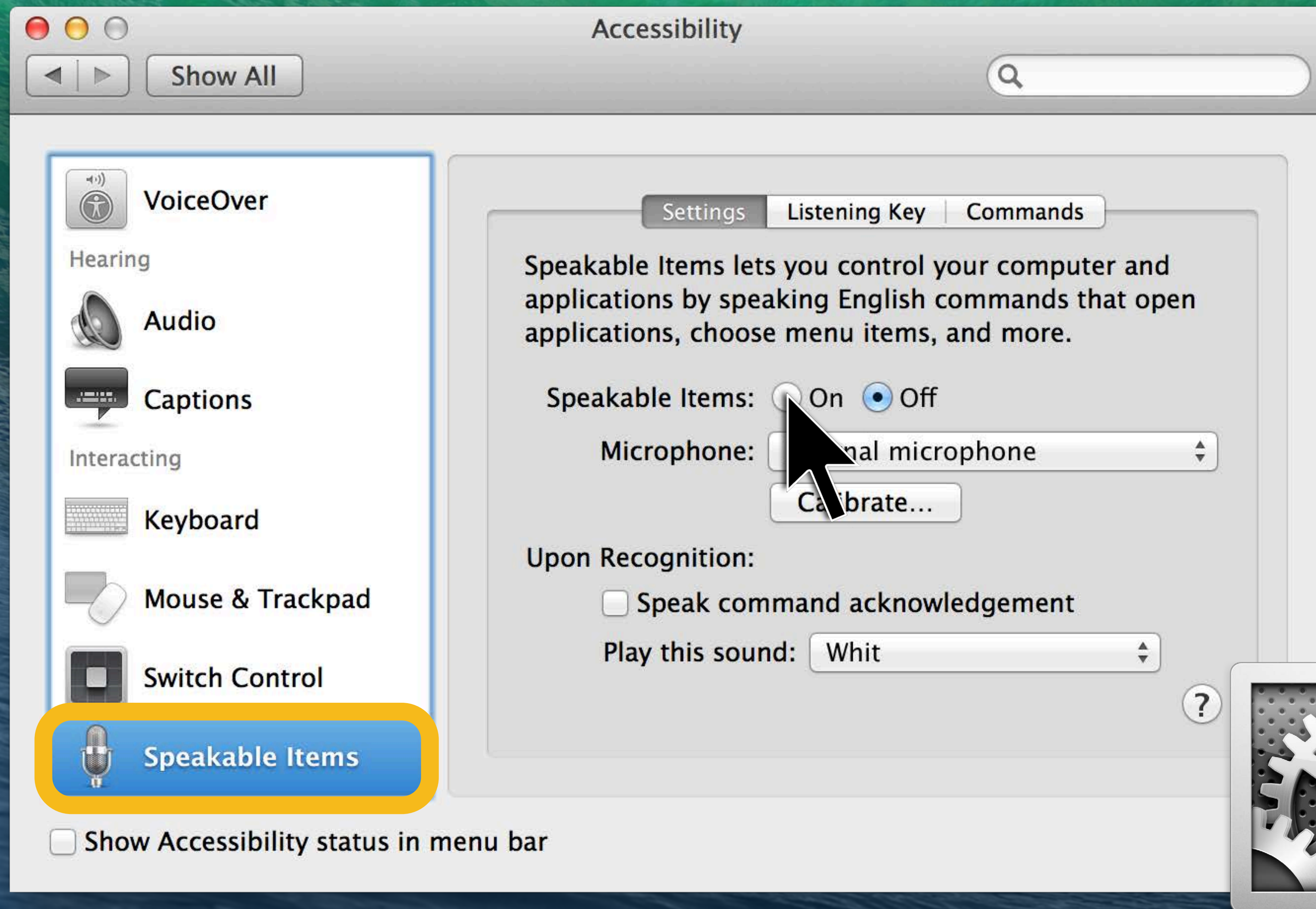
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Upon Recognition:

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Play this sound: Whit



Accessibility

◀▶

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Untitled 3 (Application) ▾

Application receives files and folders as input

Find Finder Items

Search Computer ▾

All ▾ of the following are true +

Kind ▾ is ▾ other ▾ Volume - +

Name ▾ is ▾ Digital Briefcase - +

Results Options Description

Eject Disk

Results Options Description

Get Specified Text

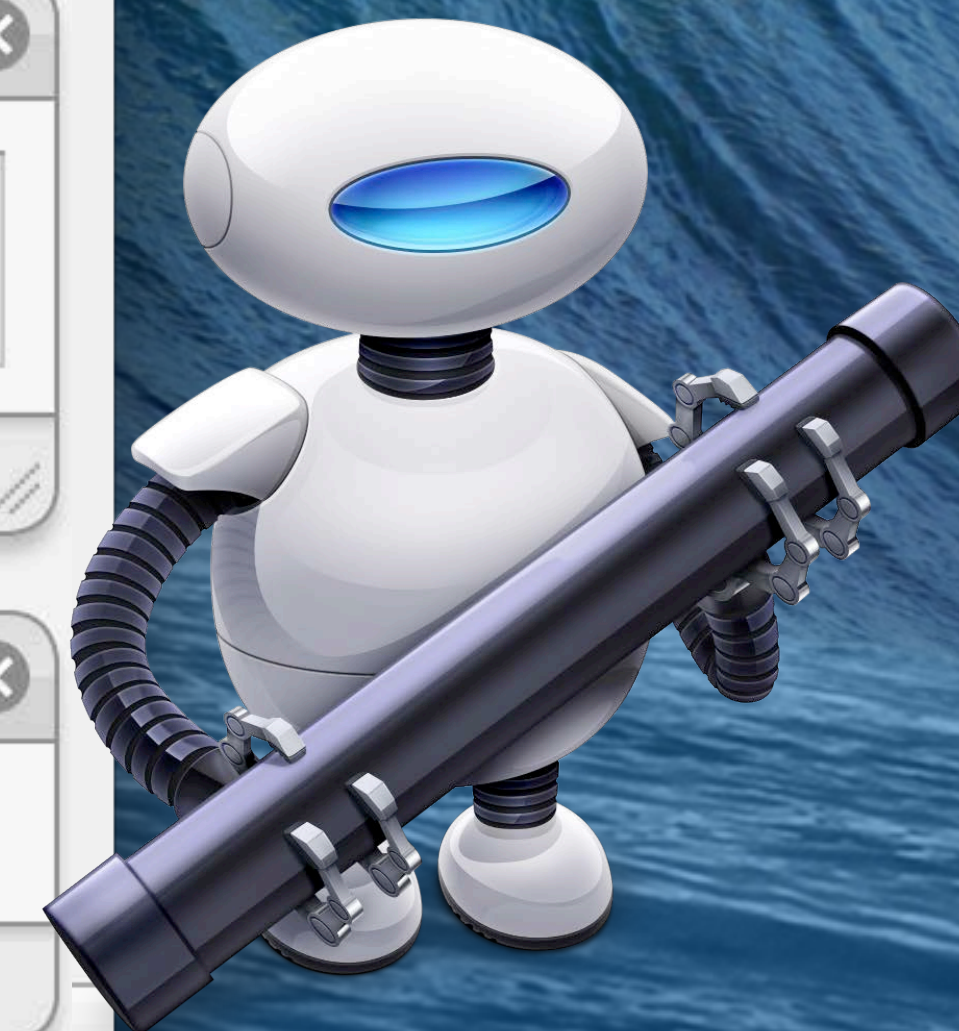
Done!

Results Options Description

Speak Text

Voice: Samantha ▾

Results Options Description





Untitled 3 (Application) ▾

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Search Computer ▾

All ▾ of the following are true +

Kind ▾ is ▾ other ▾ Volume - +

Name ▾ is ▾ Digital Briefcase - +

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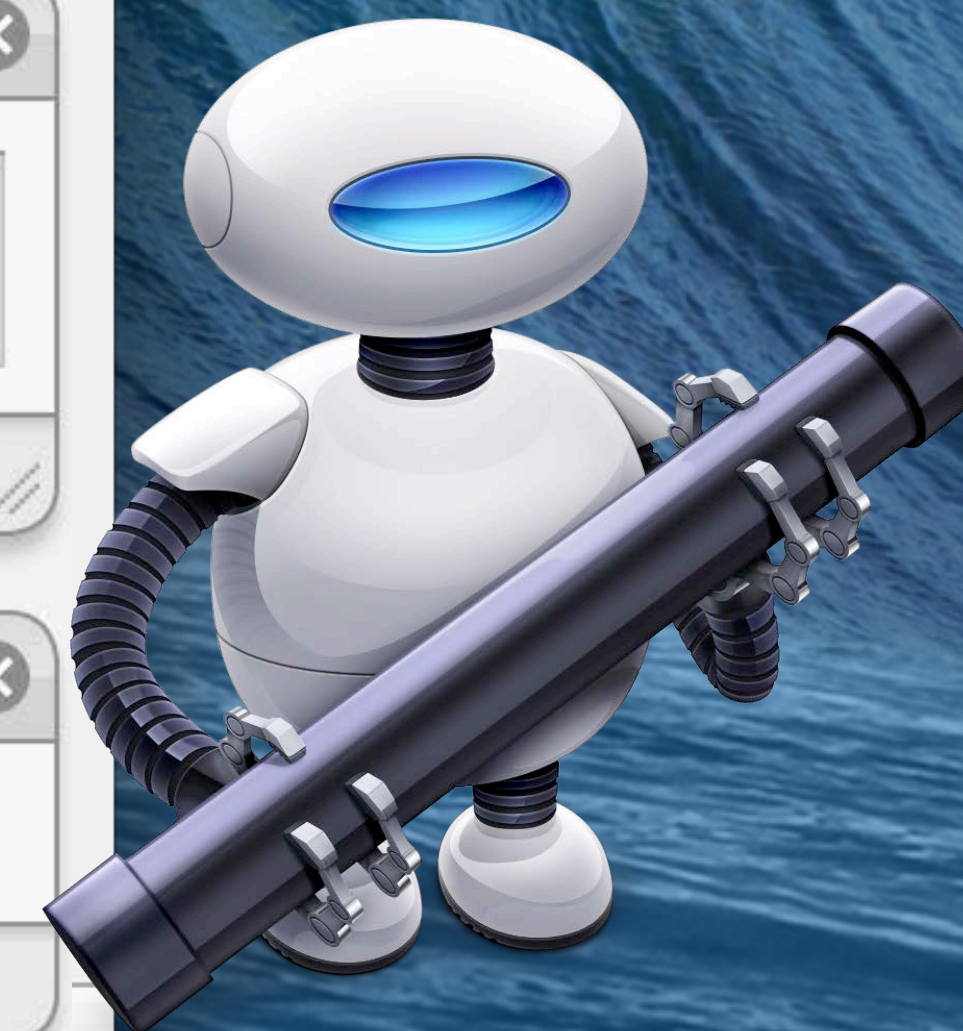
Done!

Results Options Description

Speak Text

Voice: Samantha ▾

Results Options Description





Untitled 3 (Application) ▾

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Find Finder Items

Search Computer ▾

All ▾ of the following are true +

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Name ▾	is ▾		Digital Briefcase	-	+

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Get Specified Text

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Results Options Description

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Voice: Samantha ▾

Results Options Description





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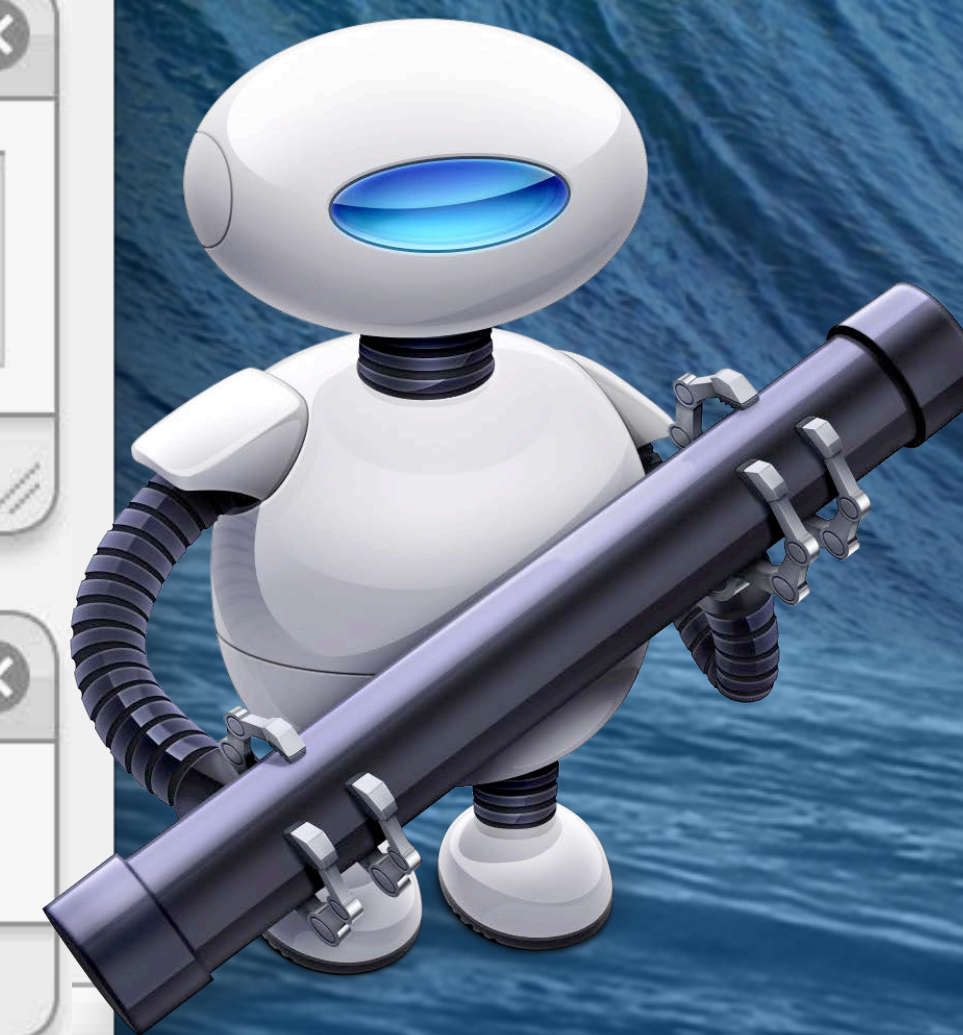
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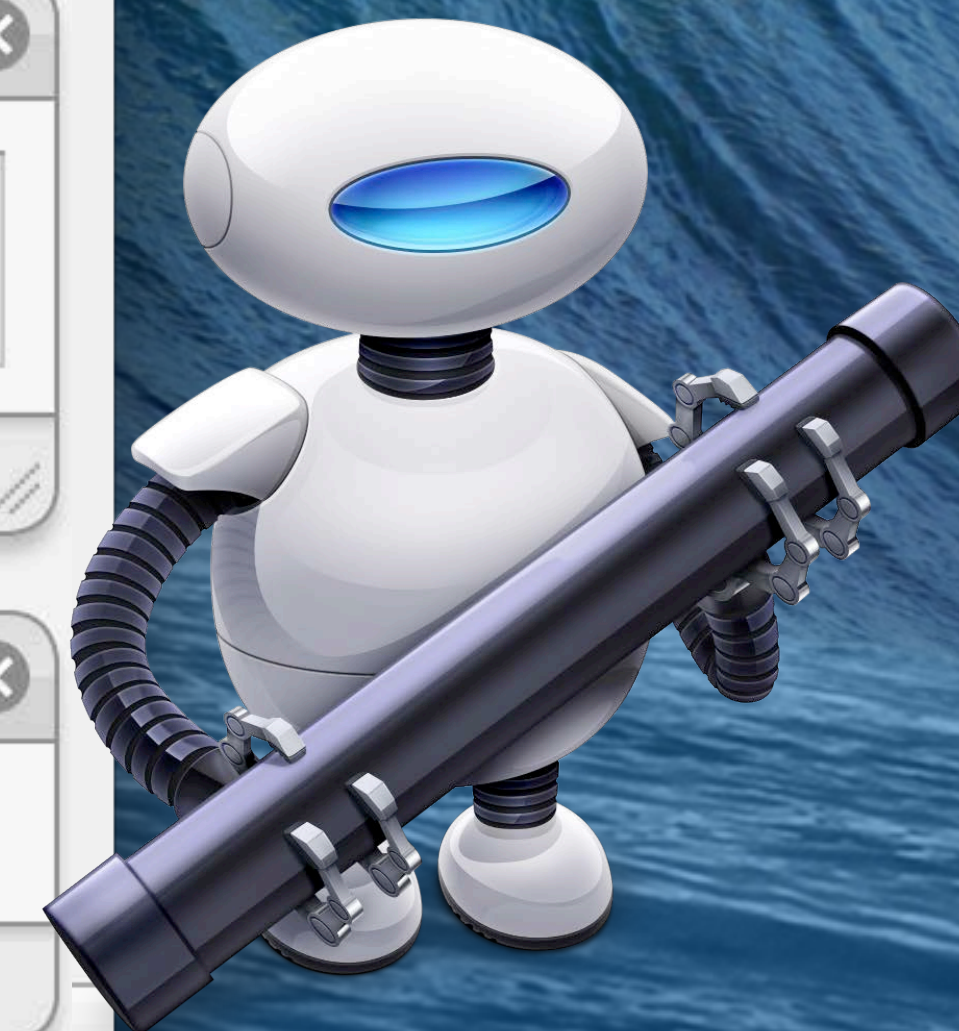
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Results Options Description





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Name ▾	is ▾		Digital Briefcase	-	+

Results Options Description

Eject Disk

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Get Specified Text

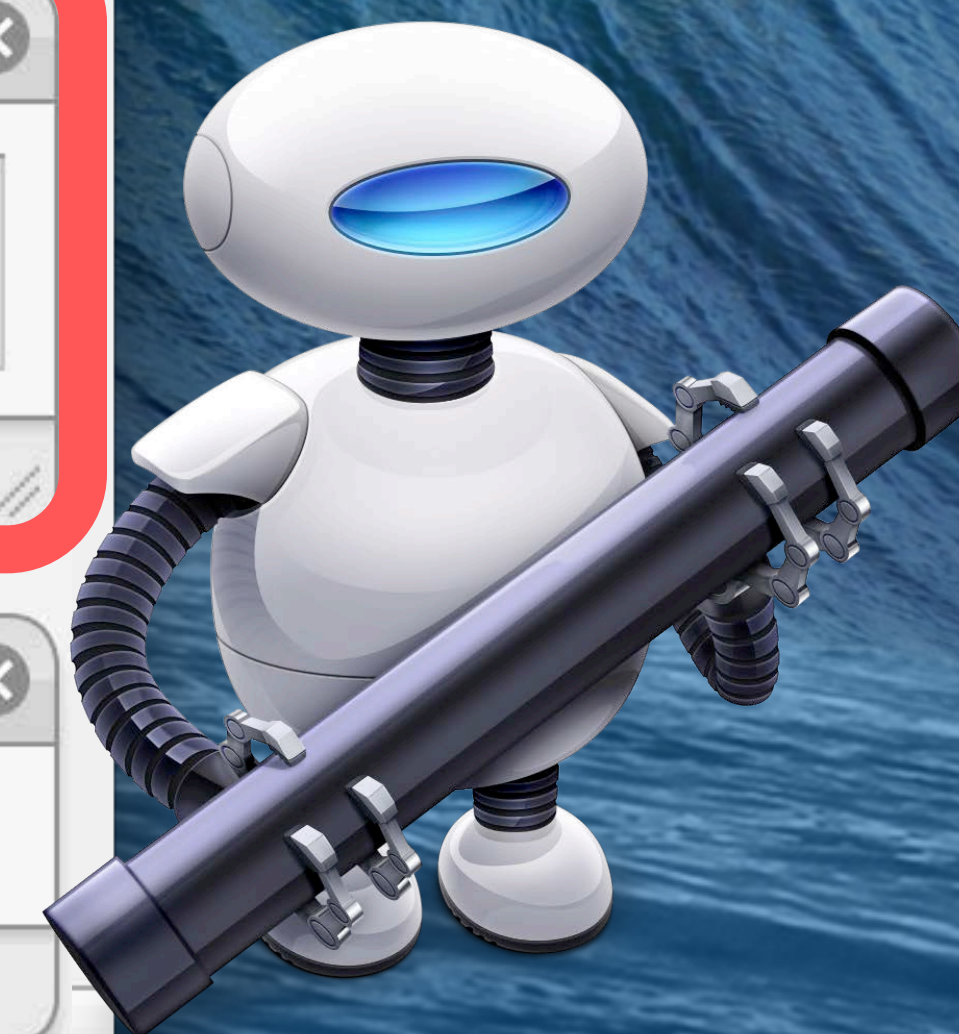
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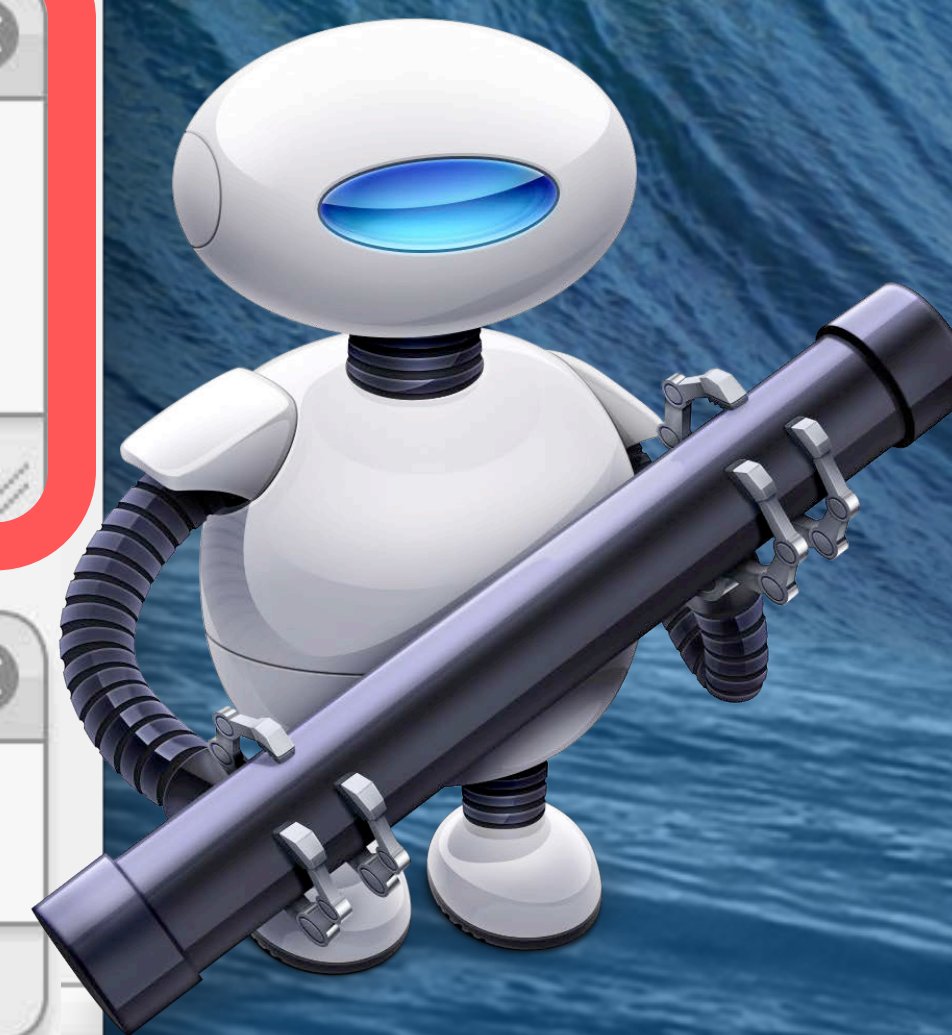
Done!

Results Options Description

Speak Text

Voice: Samantha ▾

Results Options Description





Untitled 3 (Application) ▾

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Results Options Description

Eject Disk

Results Options Description

Get Specified Text

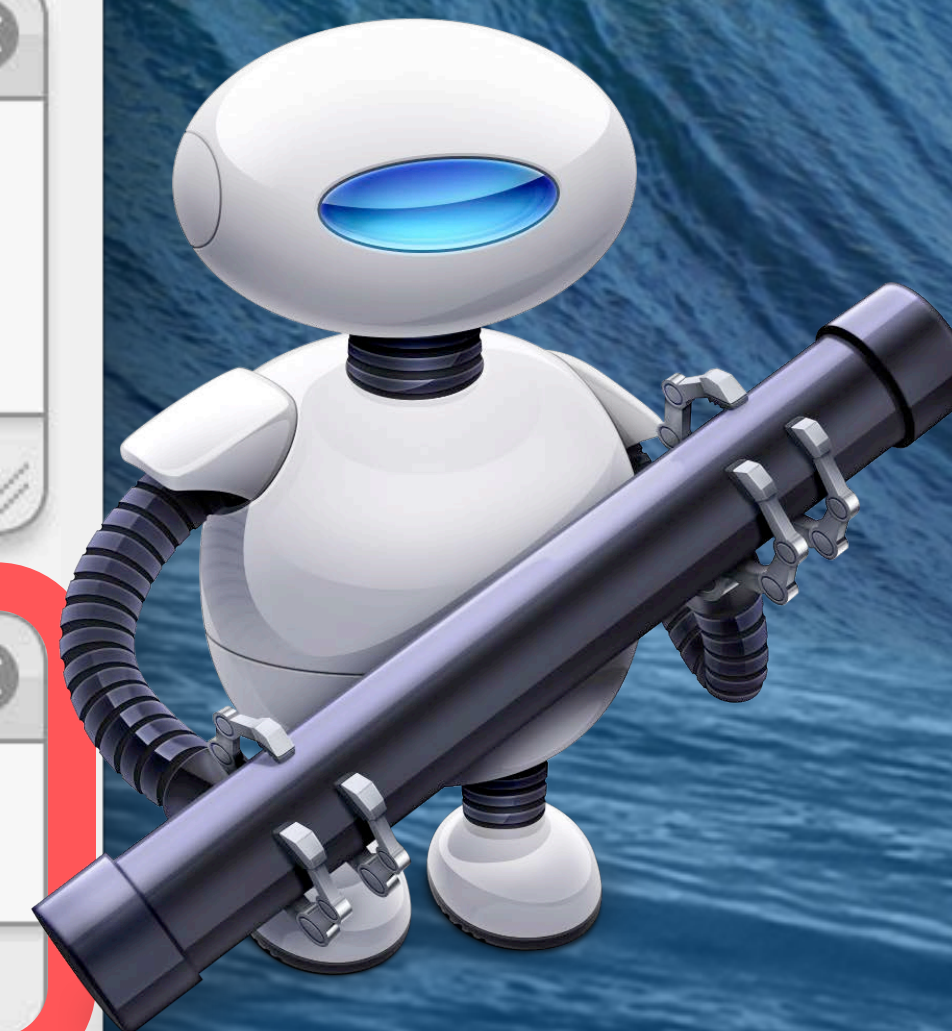
Done!

Results Options Description

Speak Text

Voice: Samantha ▾

Results Options Description





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Kind ▾	is ▾	other ▾	Volume	-	+
Name ▾	is ▾	Digital Briefcase		-	+

Results Options Description

Eject Disk

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Get Specified Text

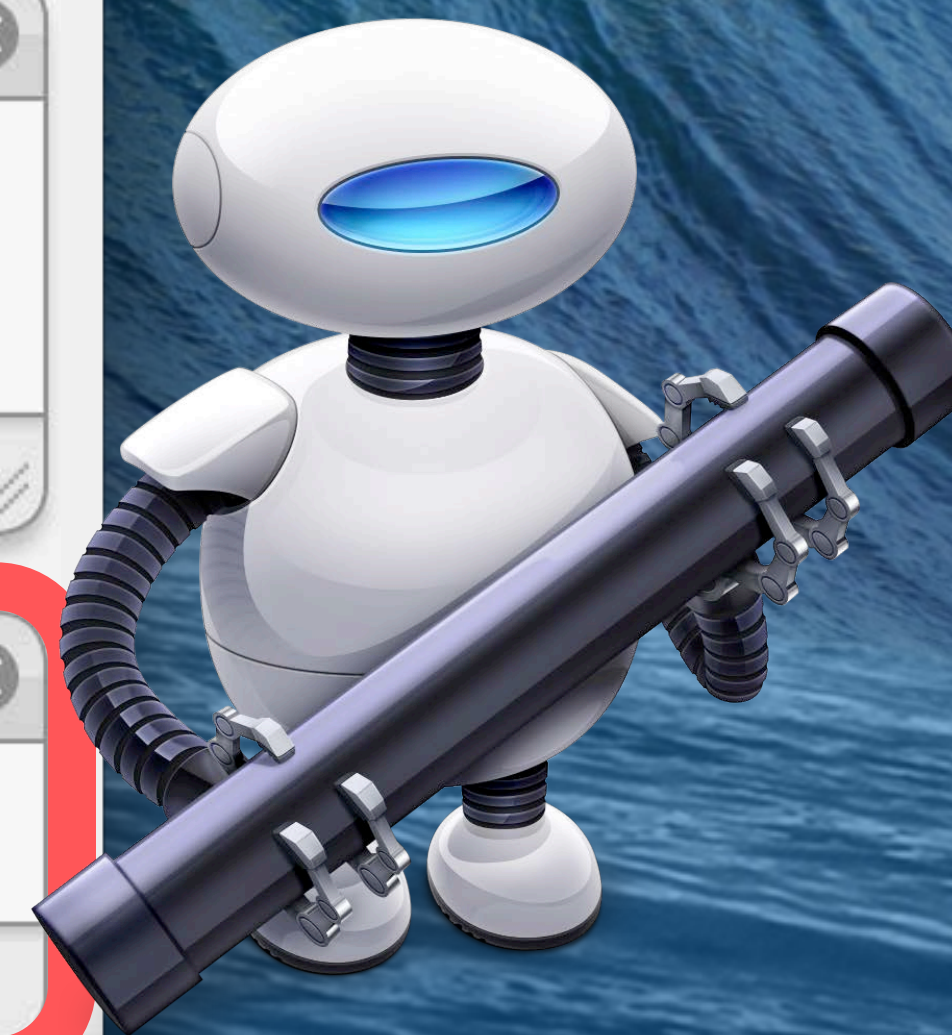
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Voice: Samantha ▾

Results Options Description





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Results Options Description

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Kind ▾ is ▾ other ▾ Volume - +

Name ▾ is ▾ Digital Briefcase - +

Results Options Description

Eject Disk

Results Options Description

Get Specified Text

Done!

Results Options Description

Speak Text

Voice: Samantha ▾

Results Options Description





Untitled 3 (Application) ▾

Application receives files and folders as input

Save As: ▾

Tags:

Where: ▴ ▾

File Format: ▴ ▾

Results Options Description

Get Specified Text

Done!

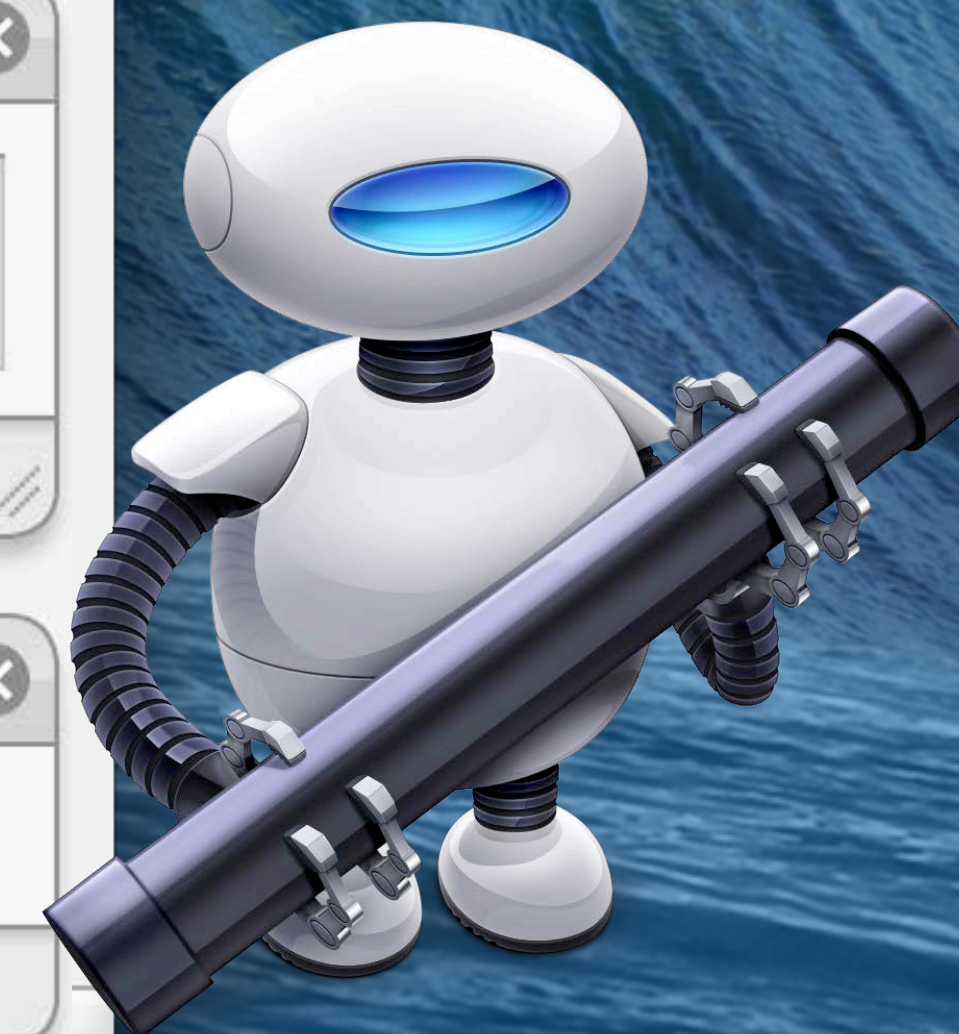
Results Options Description

Results Options Description

Speak Text

Voice: ▴ ▾

Results Options Description





Untitled 3 (Application) ▾

Application receives files and folders as input

Save As: ▾

Tags:

Where: ▴ ▾

File Format: ▴ ▾

Cancel Save

Results Options Description

Get Specified Text

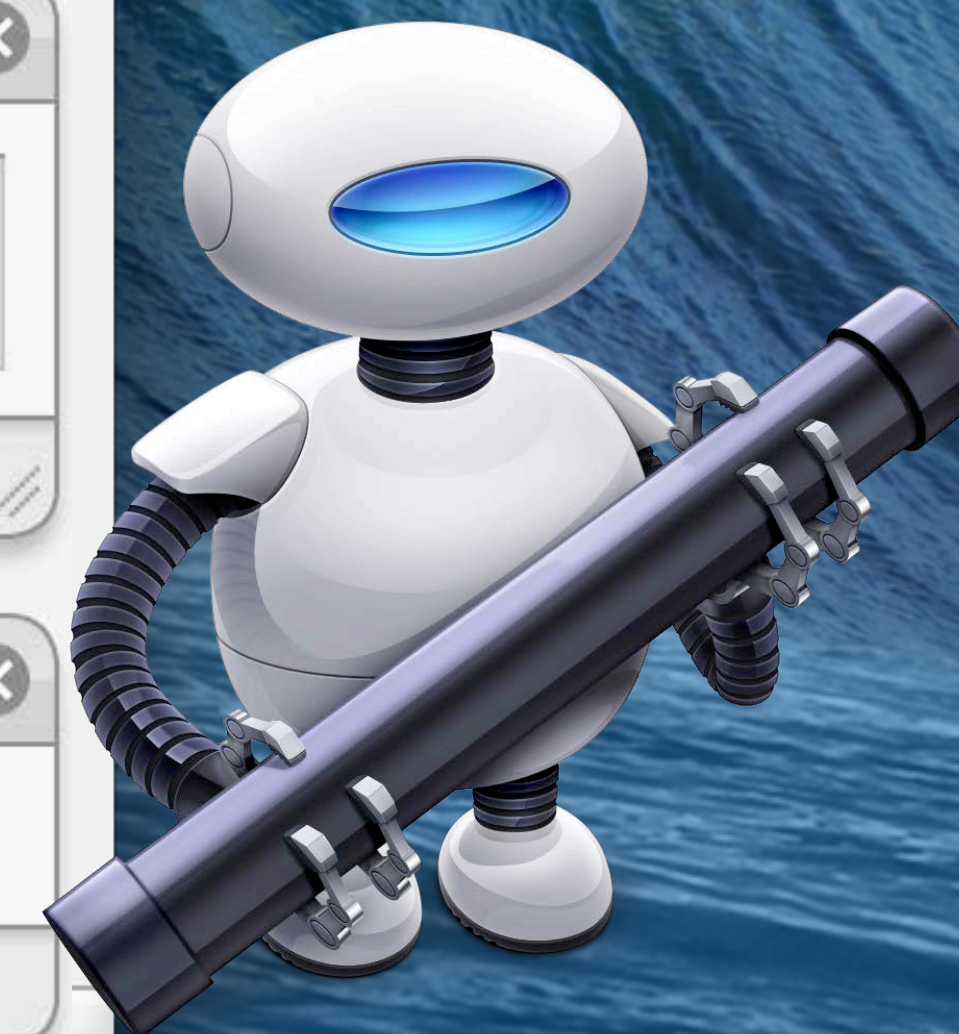
Done!

Results Options Description

Speak Text

Voice: ▴ ▾

Results Options Description





Untitled 3 (Application) ▾

Application receives files and folders as input

Save As: ▾

Tags:

Where: ▴ ▾

File Format: ▴ ▾

Results Options Description

Get Specified Text

Done!

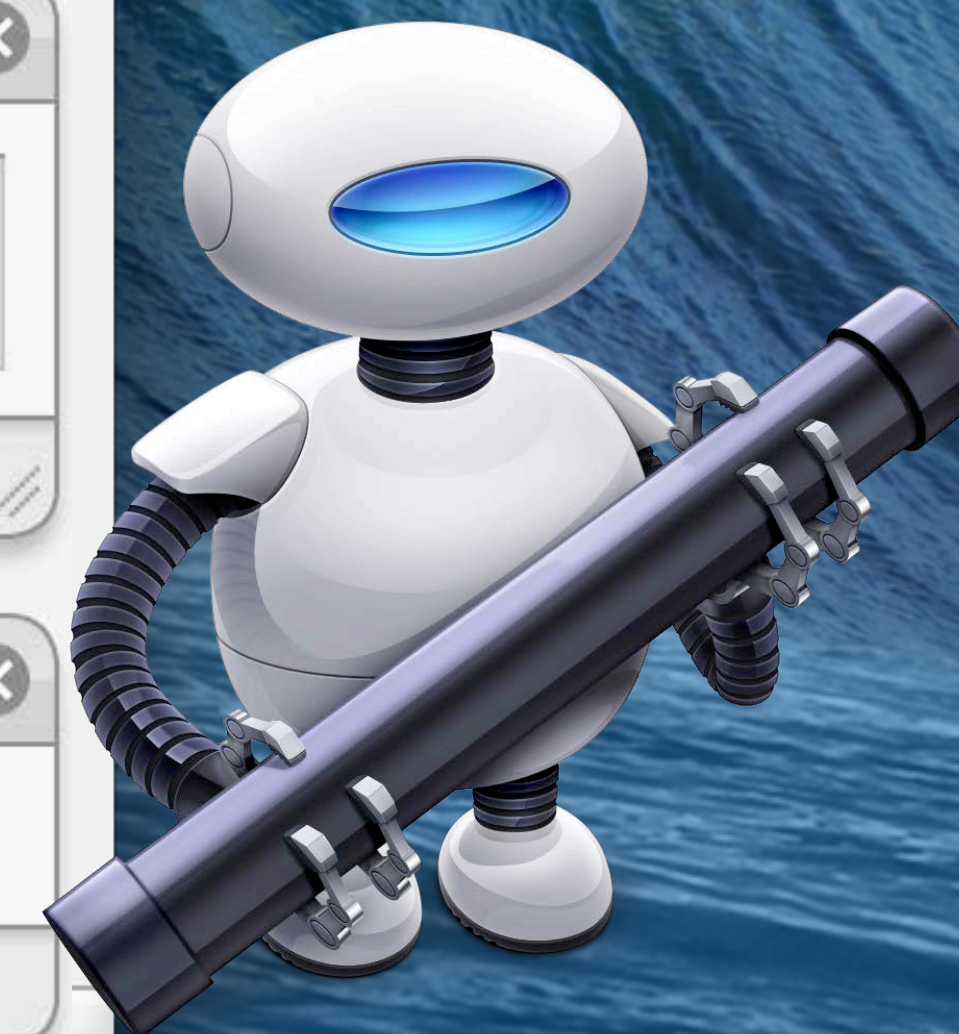
Results Options Description

Results Options Description

Speak Text

Voice: ▴ ▾

Results Options Description





Untitled 3 (Application) ▾

Application receives files and folders as input

Save As: ▾

Tags:

Where:

File Format: ▾

- Workflow
- ✓ Application
- Speakable Item

Cancel Save

Results Options Description

Get Specified Text

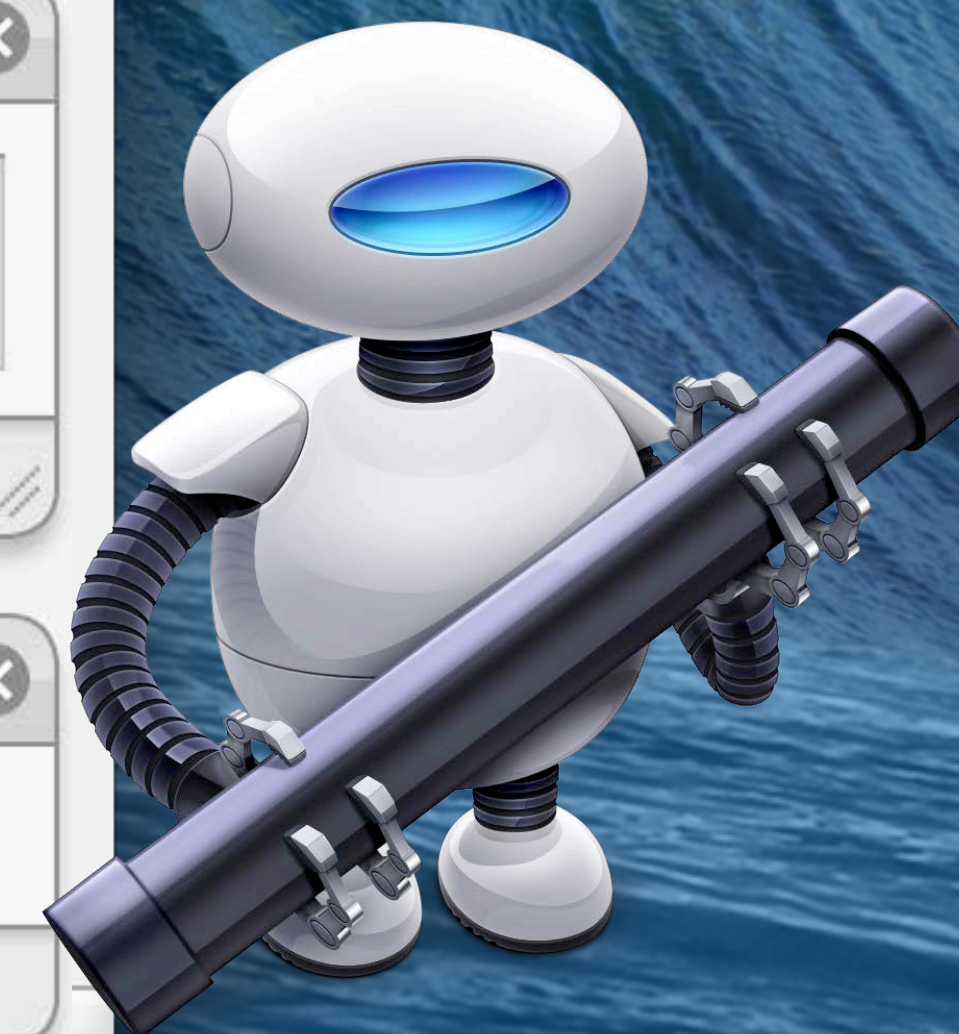
Done!

Results Options Description

Speak Text

Voice:

Results Options Description





Untitled 3 (Application) ▾

Application receives files and folders as input

Save As: ▾

Tags:

Where:

File Format: ▾

☒ Application

☐ Speakable Item

Cancel Save

Results Options Description

Get Specified Text

Done!

Results Options Description

Speak Text

Voice:

Results Options Description





Untitled 3 (Application) ▾

Application receives files and folders as input

Save As:

Tags:

Where:

File Format:

Workflow

☒ Application

Speakable Item

Results Options Description

Get Specified Text

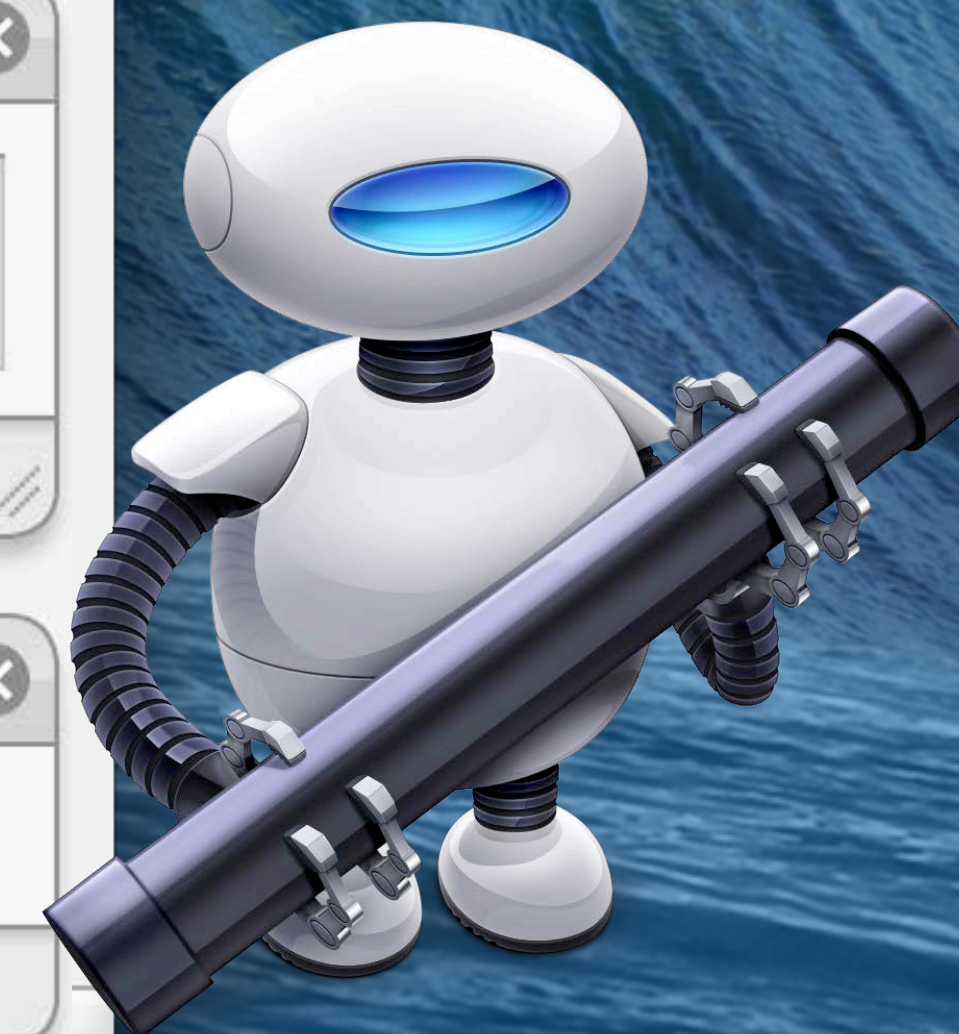
Done!

Results Options Description

Speak Text

Voice:

Results Options Description





Untitled 3 (Application) ▾

Application receives files and folders as input

Save As:

Tags:

Where:

File Format: ☒ Application ☐ Speakable Item

Results Options Description

Get Specified Text

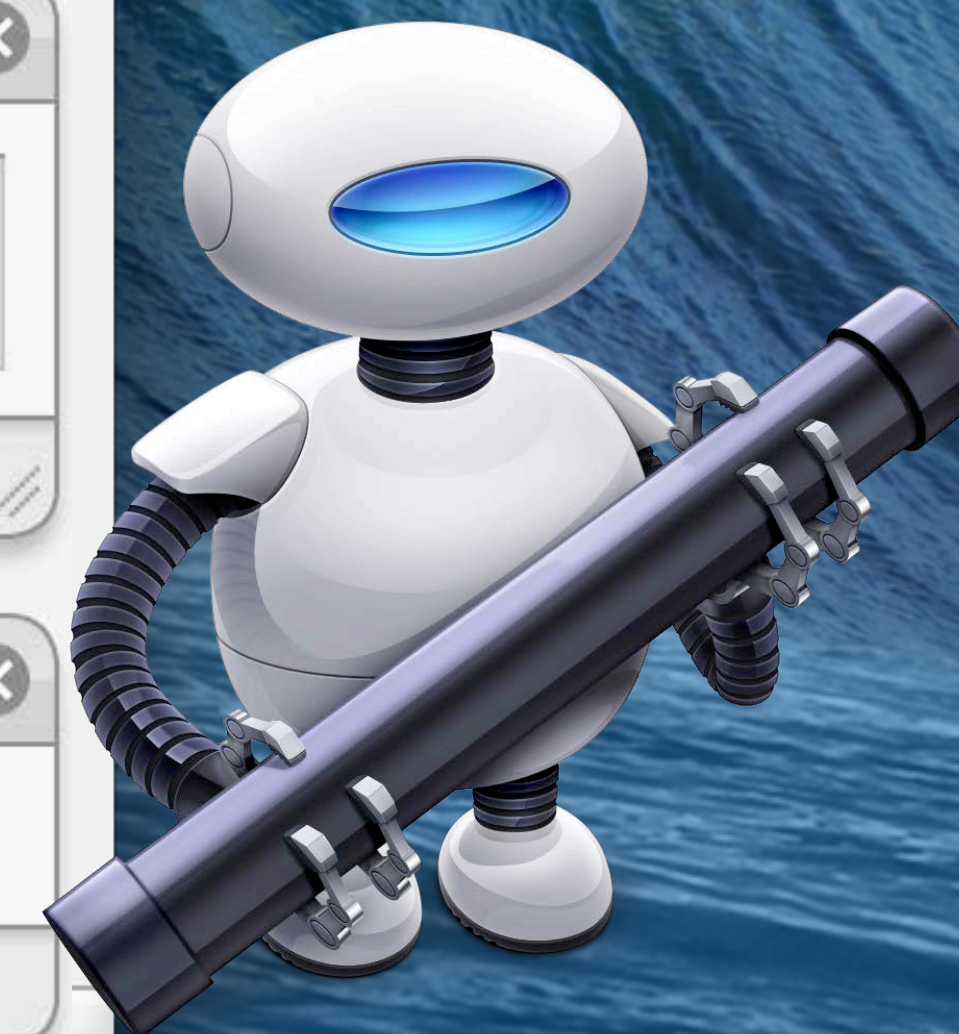
Done!

Results Options Description

Speak Text

Voice:

Results Options Description





Untitled 3 (Application) ▾

Application receives files and folders as input

Save As: ▾

Tags:

Where: ▾

File Format: ▾

Results Options Description

Get Specified Text

Done!

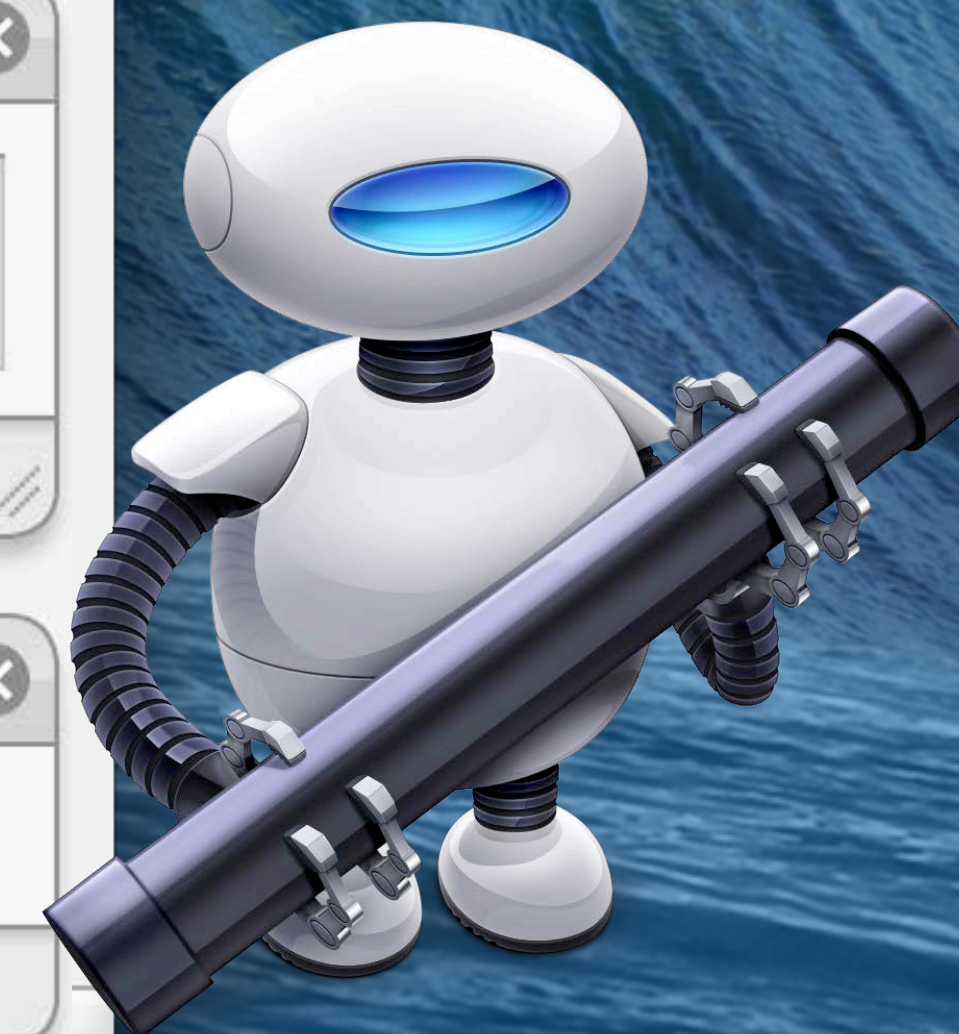
Results Options Description

Results Options Description

Speak Text

Voice: ▾

Results Options Description





Untitled 3 (Application) ▾

Application receives files and folders as input

Save As: ▾

Tags:

Where: ▾

File Format: ▾

Results Options Description

Get Specified Text ▾

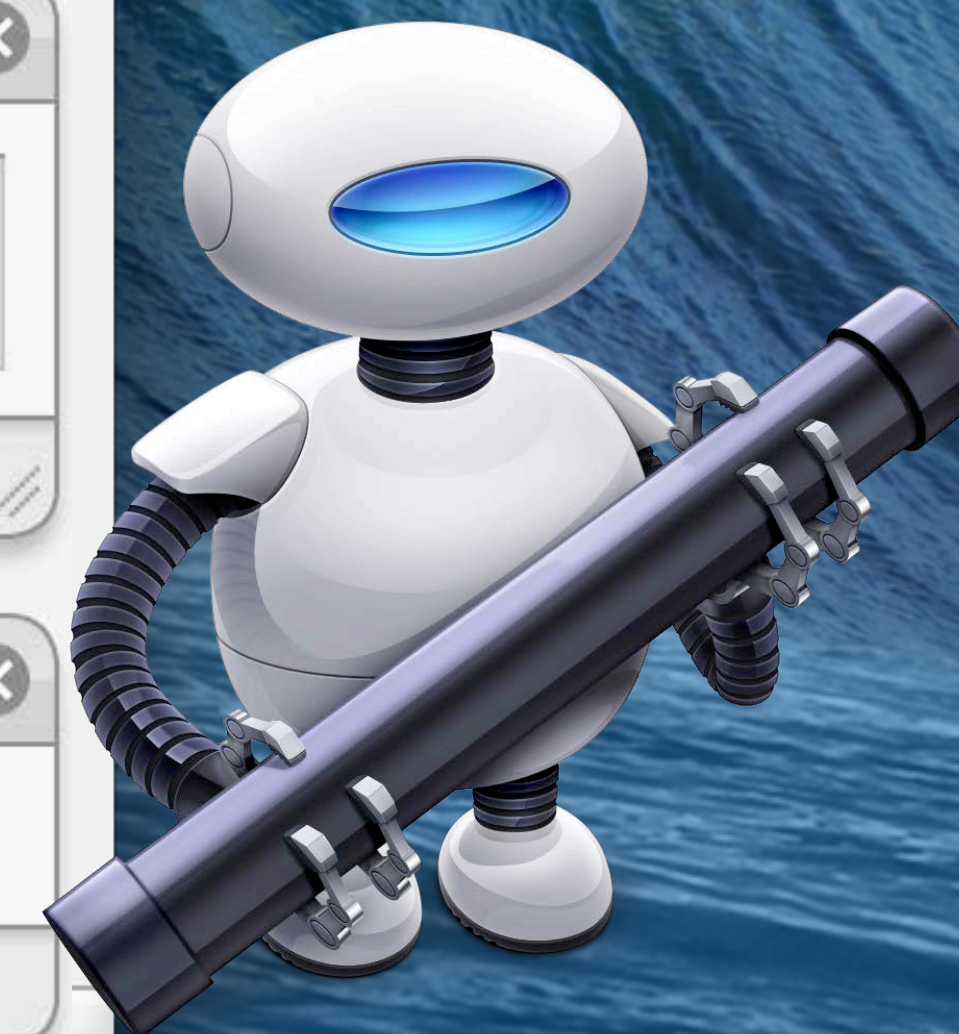
Done!

Results Options Description

Speak Text ▾

Voice: ▾

Results Options Description





Untitled 3 (Application) ▾

Application receives files and folders as input

Save As:

Tags:

Where:

File Format:

Results Options Description

Get Specified Text

Done!

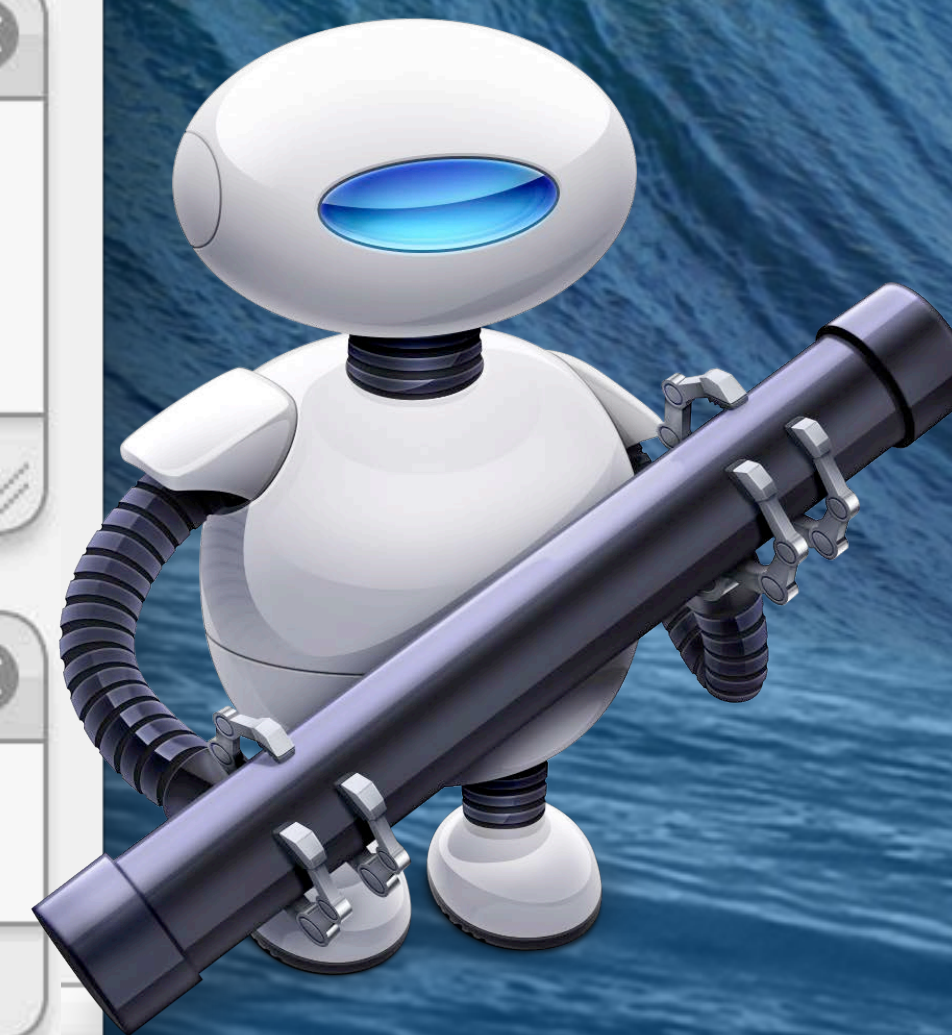
Results Options Description

Results Options Description

Speak Text

Voice:

Results Options Description





Untitled 3 (Application) ▾

Application receives files and folders as input

Save As:

Tags:

Where:

File Format:

Search

All

Results

Options

Description

Get Specified Text

Done!

Results

Options

Description

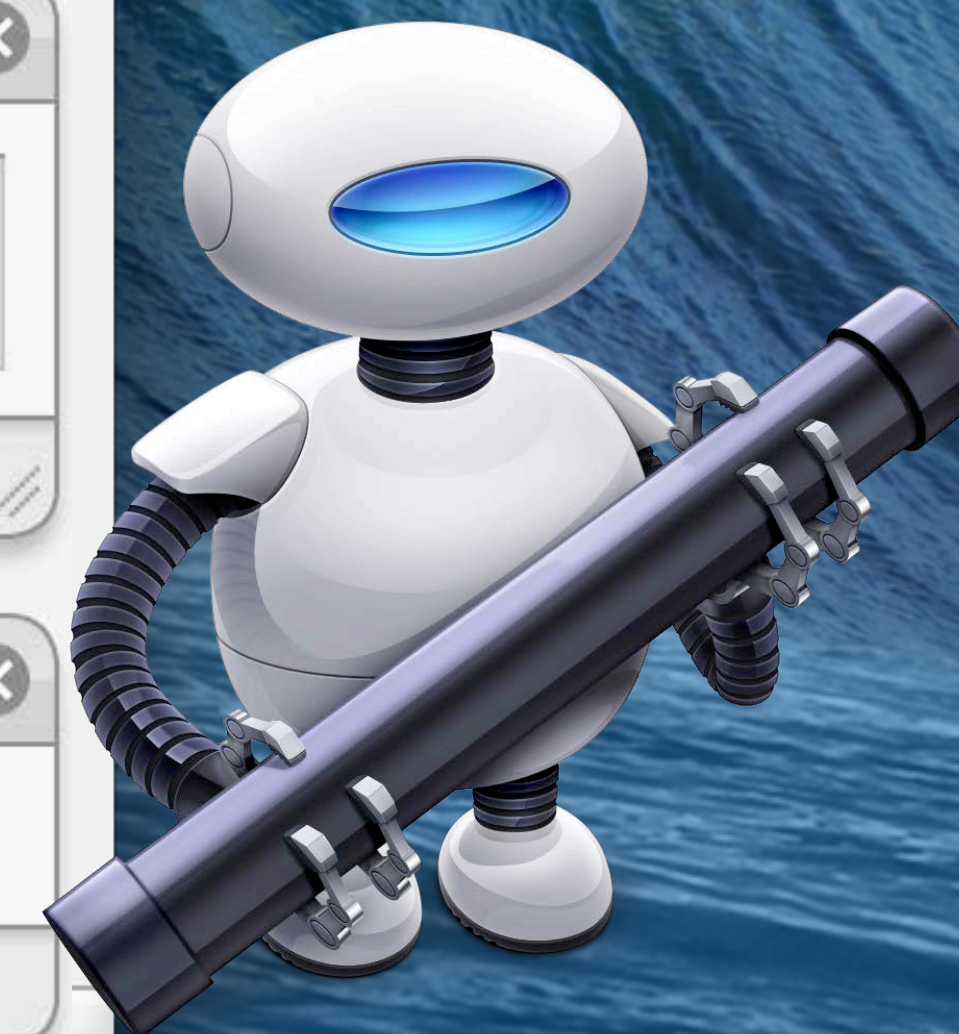
Speak Text

Voice:

Results

Options

Description





Untitled 3 (Application) ▾

Application receives files and folders as input

Save As: ▾

Tags:

Where: ▾

File Format: ▾

Results Options Description

Get Specified Text

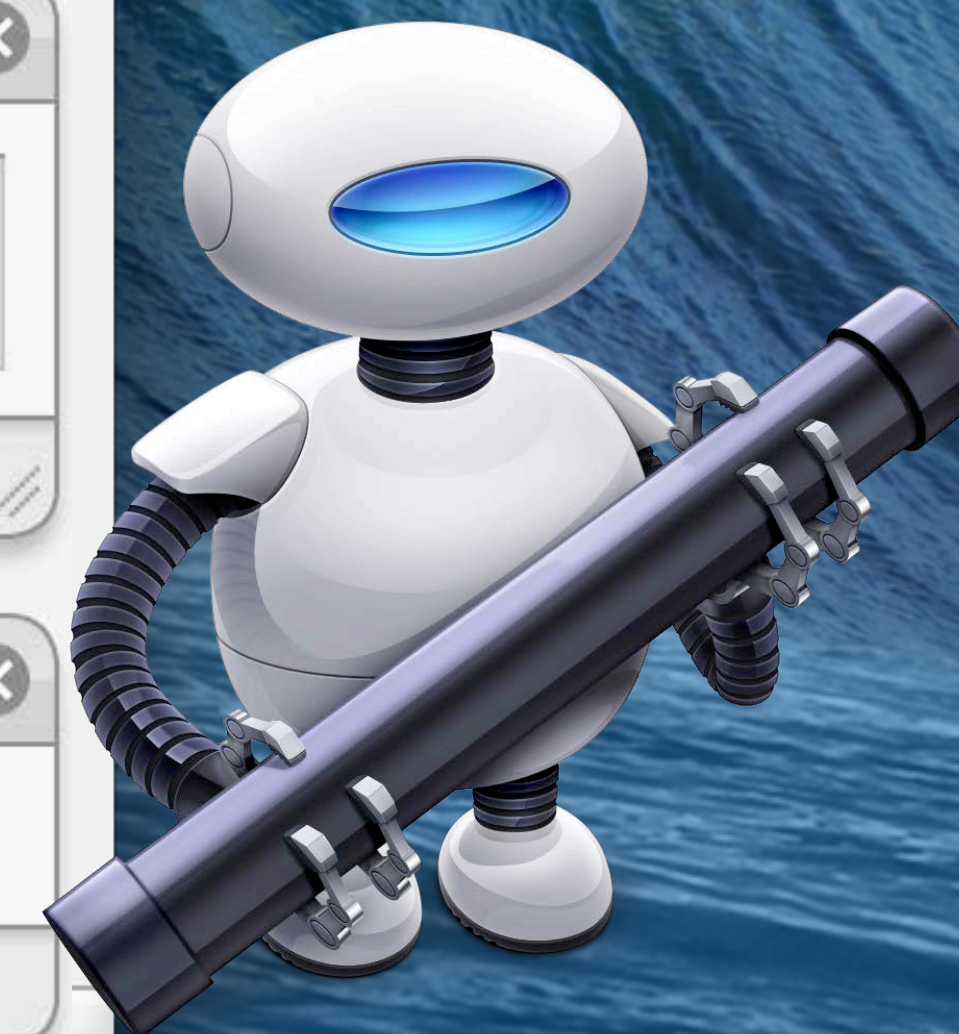
Done!

Results Options Description

Speak Text

Voice: ▾

Results Options Description





Untitled 3 (Application) ▾

Application receives files and folders as input

Save As: ▾

Tags:

Where: ▾

File Format: ▾

Results Options Description

Get Specified Text

Done!

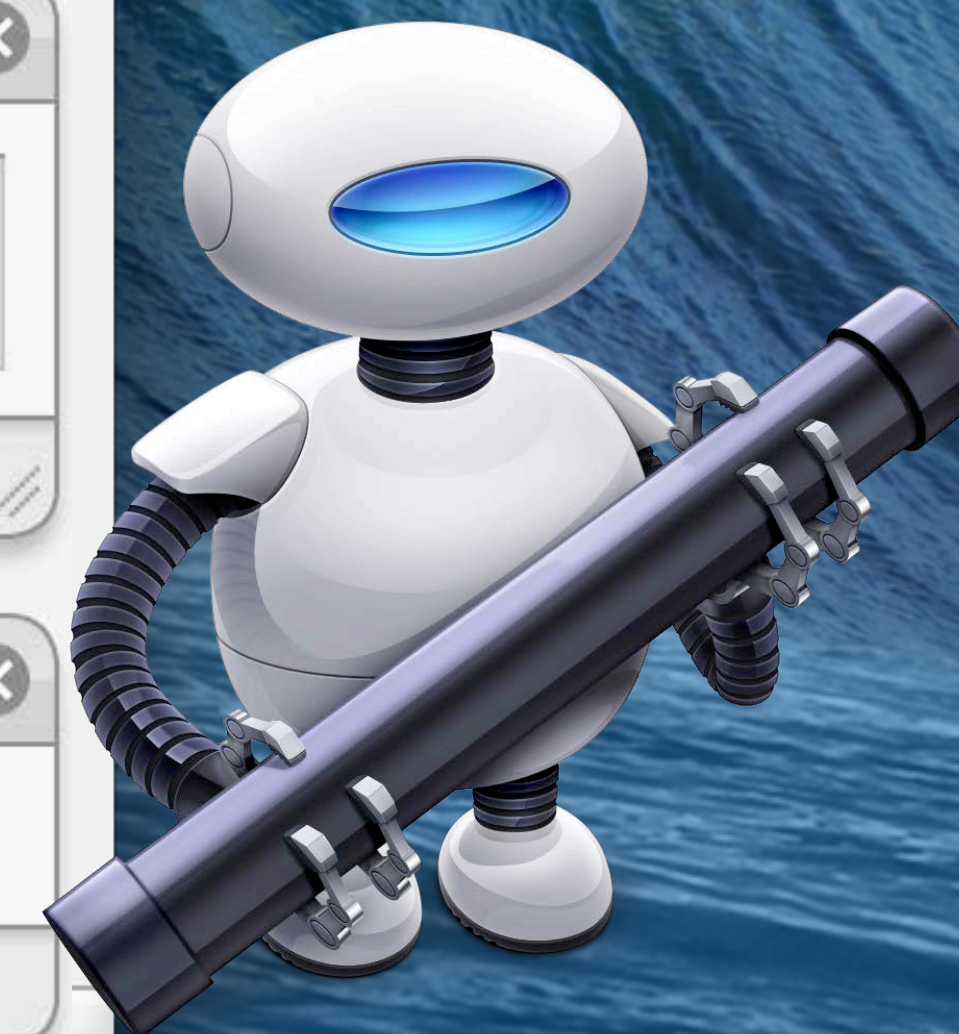
Results Options Description

Results Options Description

Speak Text

Voice: ▾

Results Options Description





Eject Digital Briefcase.app (Application) ▾

Application receives files and folders as input

Find Finder Items

Search Computer ▾

All ▾ of the following are true +

Kind ▾ is ▾ other ▾ Volume - +

Name ▾ is ▾ Digital Briefcase - +

Results Options Description

Eject Disk

Results Options Description

Get Specified Text

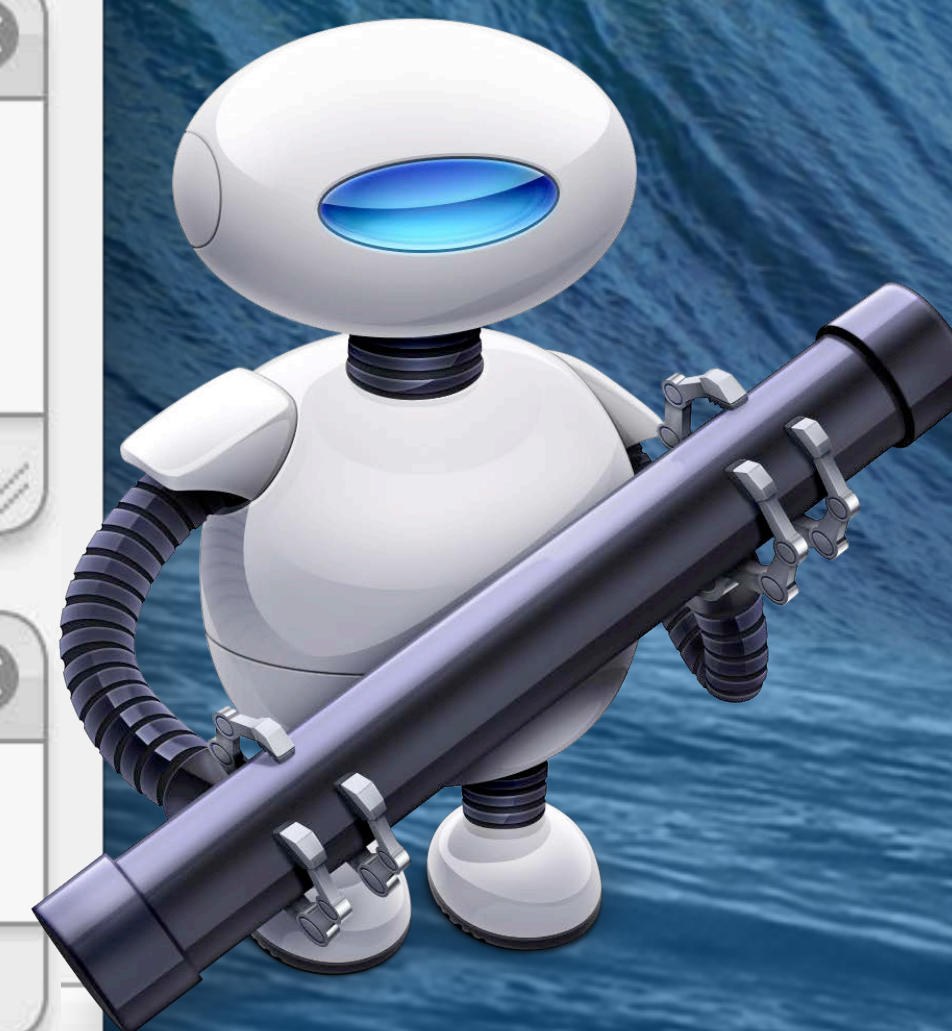
Done!

Results Options Description

Speak Text

Voice: Samantha ▾

Results Options Description







Digital Briefcase



Digital Briefcase



Digital Briefcase



Digital Briefcase





Digital Briefcase



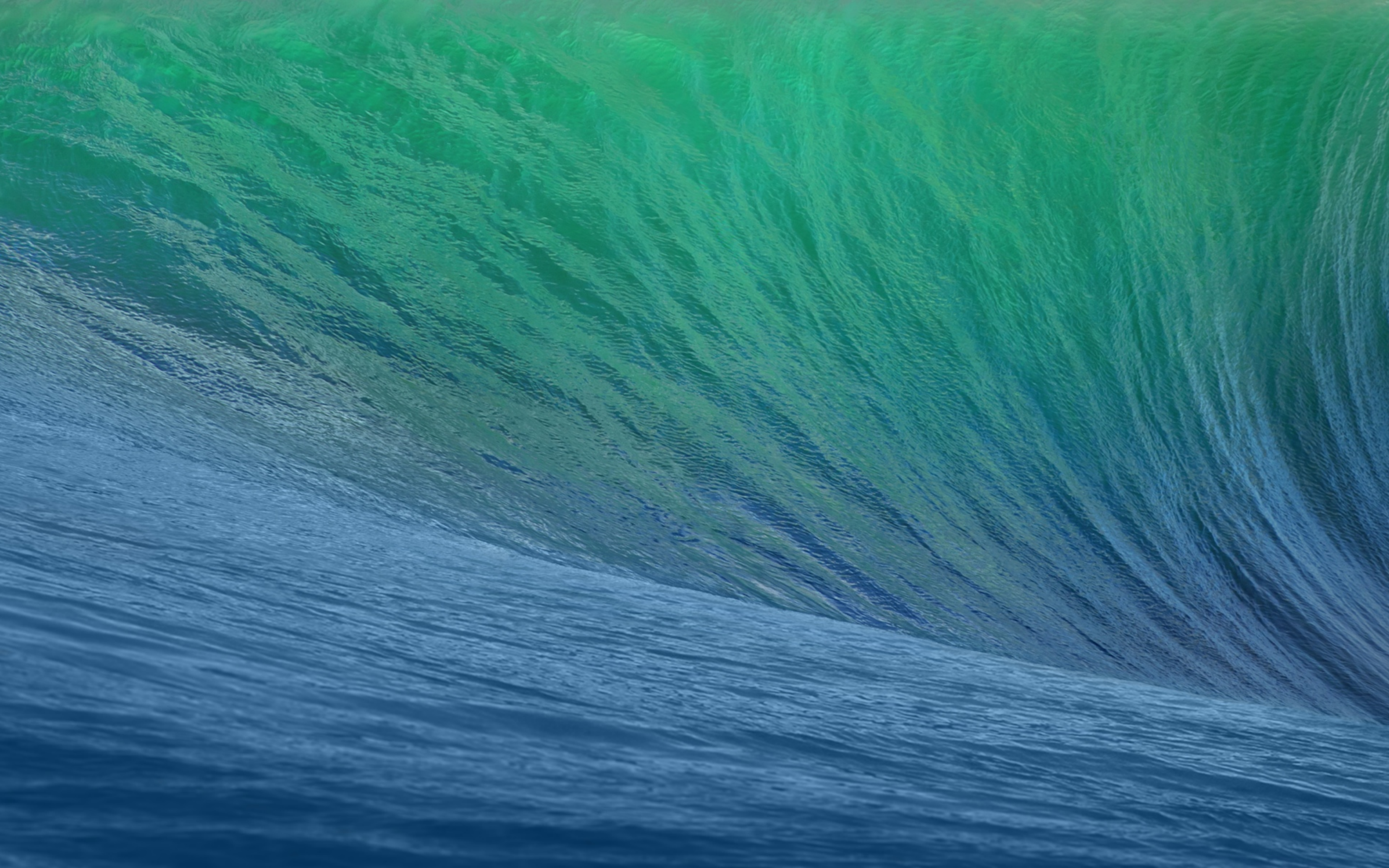


Digital Briefcase



“Eject Digital Briefcase”







Speakable-Workflows



Speakable-Workflows

www.speakableworkflows.com

Summary

Great OS Release for Automation



Summary

Great OS Release for Automation

- iCloud Support



Summary

Great OS Release for Automation

- iCloud Support
- Code Signing



Summary

Great OS Release for Automation

- iCloud Support
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- AppleScript Libraries



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- The "use" Clause



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- Notifications



Summary

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- iCloud Support
- Code Signing
- AppleScript Libraries
- The "use" Clause
- Notifications
- Speakable-Workflows

More Information

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Documentation

AppleScript Libraries Overview
<http://macosautomation.com/applescript>

Apple Developer Forums

<http://devforums.apple.com/community/tools/auto/applescript>

Related Session

Introducing Apple Script Libraries

Russian Hill
Thursday 3:15PM

Related Session

Introducing Apple Script Libraries

TODAY!

3:15-4:15 PM

RUSSIAN HILL

Info

#416

Introducing AppleScript Libraries

In a major update and enhancement to its native scripting language, OS X delivers a new plugin architecture for AppleScript, enabling easy development and access to custom sets of functions and methods. Each individual AppleScript Library, saved as an AppleScript script file, can publish its own scripting terminology, and contain dozens of routines written in native AppleScript or the incredibly powerful AppleScriptObjective-C. Scripting just got a whole lot better!

Thursday, June 13 3:15 - 4:15 PM

Russian Hill - Level 2



Russian Hill
Thursday 3:15PM

Labs

Automation Lab

Tools Lab C
Thursday 4:30PM

Labs

Automation Lab

TODAY!

4:30-6:00 PM

TOOLS LAB-C

Info

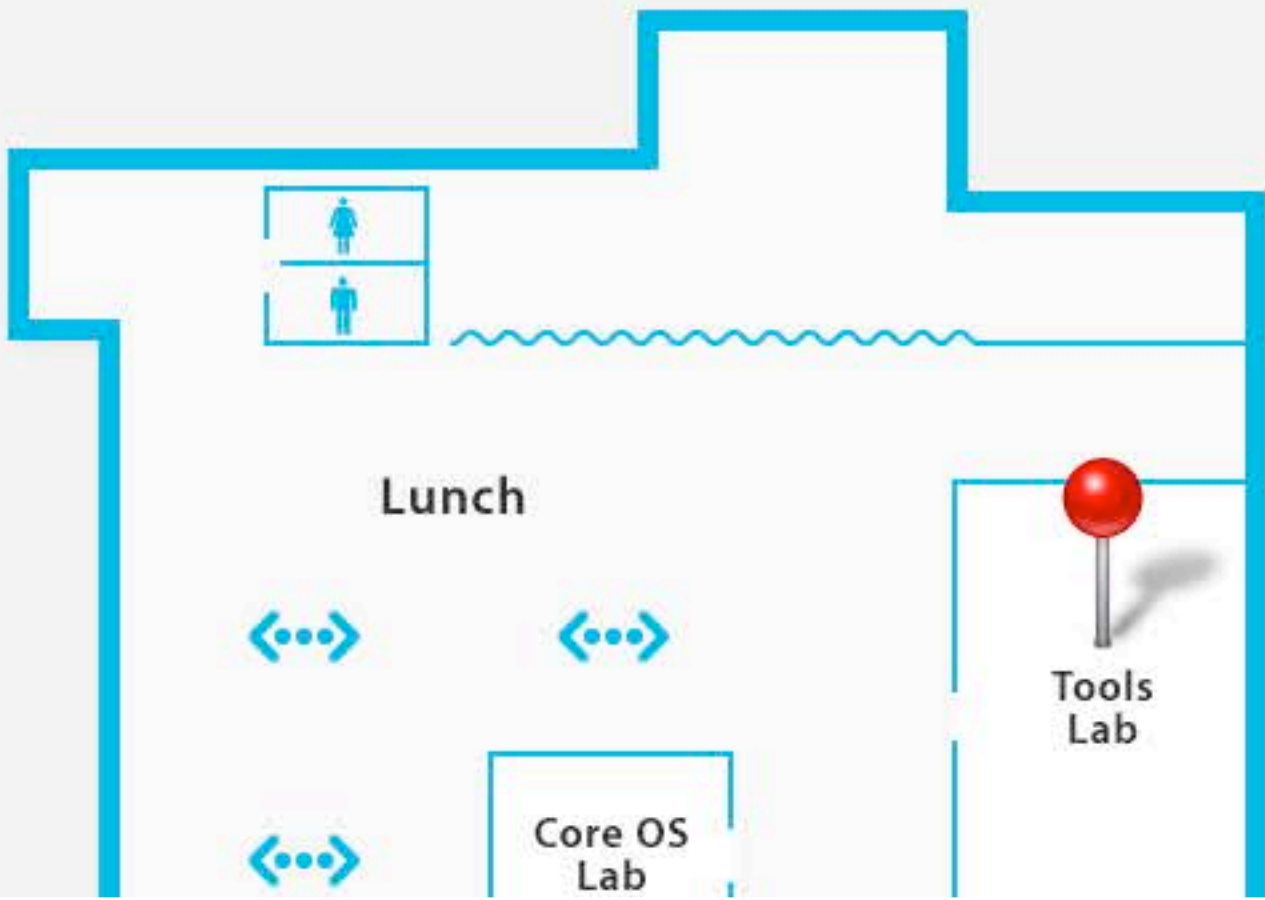
Tools - OS X

Automation Lab

With so much new with the OS X automation technologies this year, you'll want to get by the lab early. Bring your questions about implementing automation support in your applications, and stay for overview of the new abilities and features of AppleScript and Automator in OS X.

Thursday, June 13 4:30 - 6:00 PM

Tools Lab C - Level 1



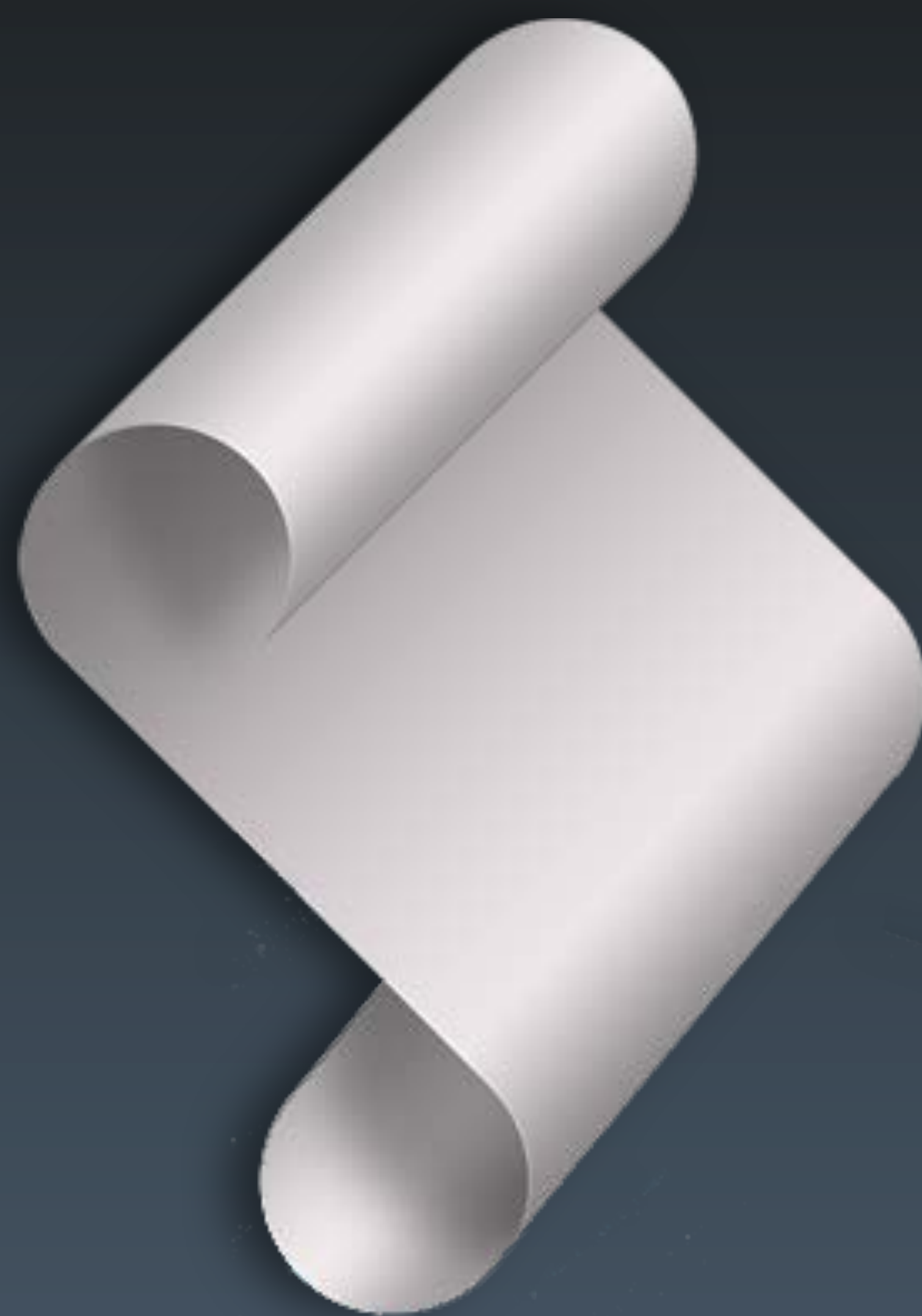
Tools Lab C
Thursday 4:30PM

And, did you know...

20TH ANNIVERSARY

AppleScript

1993 – 2013







Thank You!

20th

 WWDC2013