Tips for Dosbox and Applescript by Michael Paine

http://www4.tpg.com.au/users/aoaug/mac_osx.html Updated 28 May 2014

To create a Applescript that starts an application within Dosbox

1. Start the Applescript editor

2. do shell script "/path1/DosBox.App/Contents/MacOS/DosBox /path2/oa4.bat"

where path1 is the location of the Dosbox app and path2 is the location of the Dos app that you wish to run in Dosbox. Note that path2 will become the c: drive within Dosbox.

To save a script as an application:

- 1. Choose File > Save.
- 2. Choose a location in which to save the file.
- 3. In the Save dialog, choose "application" from the File Format popup menu.
- 4. Enter a name for the script (".app" is the name extension).
- 5. Select any combination of options. The options are:
- Run Only: Saves the application in a non-editable format. USE THIS AFTER FIRST SAVING YOUR APPLESCRIPT AS A NORMAL FILE (FOR LATER EDITS)
- Startup Screen: Causes the script application to display a dialog upon launch containing the text from the script Description field. (See "Description Field."). OPTIONAL - NOT MUCH POINT
- Stay Open: Causes the application to remain active until you quit it. Choose this option if the script contains an idle handler. *DON'T CHOOSE THIS*
- Requires Classic: Choose this option if you want the application to run on Mac OS 9 systems. *DON'T CHOOSE THIS*
- 6. Click Save.

To change the icon of the Applescript application

- 1. Find a suitable icon to use. GIFs and other graphics files can be converted to an OS X application icon with Graphic Converter.
- 2. Right-click on the icon file and select Get Info.
- 3. Click on the icon in the Get Info window and press Cmd-C
- 4. Find the Applescript application. Get Info for it.
- 5. Click on the icon and press Cmd-V. The icon should be replaced with your chosen one. If not then the icon graphic has a problem.

After changing the icon you can drag the application to your dock.

To announce the launch of Dosbox

Add this line, or similar, to your Applescript

say "Starting dosbox" using "Kathy" ([using "Kathy"] is optional – see System Preferences for a list of voices. Note that it is case sensitive)

To print from Open Access to the OS X printer

Create a folder called Print and add it to the Open Access searching order. When printing choose FILE and specify the file location as the Print folder (eg Save as: PRINT:JUNK). Create the following Applescript and call it, say. PrintFolderAdditions.scpt.

```
on adding folder items to this_folder after receiving added_items
    delay 20 -- time for job to finish?
    repeat with each_item in added_items
        tell application "Printer Setup Utility" to open each_item
        delay 20 -- time before file is deleted from folder
        tell application "Finder" to delete each_item
        tell application "Printer Setup Utility"
            quit
        end tell
```

end repeat end adding folder items to

Run FolderActionsSetup script. Select the Print folder you created previously and assign the PrintFolderAdditions script to it.

Now whenever Open Access (or any other application) sends a text file to the Print folder it is printed and deleted.

UPDATE: MAY 2014 PRINTER SETUP UTILITY changed to ADDPRINTER.APP several years.

Mavericks 10.9.3 has broken the function of ADDPRINTER.APP

on adding folder items to this_folder after receiving these_items try tell application "Finder" repeat with i from 1 to number of items in these_items try set this_item to item i of these_items set the path_string to this_item as string set the final_path to POSIX path of the path_string

tell *application* "Finder" **to delete** this_item

end repeat end tell on error error_message end try end adding folder items to

-o cpi=12 sets characters per inch to 12 (default is 10)
-o page-left=36 sets the left margin to 36 points (about 1/2" - default is zero margin)

To print from another application:

on adding folder items to this_folder after receiving myAddedItems repeat with myCounter from 1 to (count myAddedItems) tell application "<my app>" set myDocument to open item myCounter of myAddedItems print myDocument using ",preset>" print dialog no end tell end repeat end adding folder items to

To run a synchronisation with a Shuffle/iPod then eject the device

set the alert_message to "Ready to synchronise? (Ensure Shuffle is
 plugged in and allow up to 1 minute for script to run and quit
 itself)"

display dialog **the** alert_message buttons {"Yes", "No"} default button 2 with icon 1 giving up after 10

set the user_choice to the button returned of the result

if user_choice is "Yes" then
 tell application "Synk"
 activate
 end tell
 -- get ready to send keystrokes
 tell application "System Events"
 -- make Synk the active application
 tell process "Synk"
 set frontmost to true

```
open "Applications/synk shuffle.snkd" -- location of Synk
                     batch file
         delay 2
    end tell
    -- send the keystrokes
    keystroke "r" using {command down} -- Run Synk batch
    delay 20
    keystroke "q" using {command down} -- Quit Synk
end tell
set the alert_message to "Synchronisation has finished. Do you
        wish to eject the Shuffle?"
display dialog the alert_message buttons {"Yes", "No"} default
        button 2 with icon 1 giving up after 10
set the user choice to the button returned of the result
if user choice is "Yes" then
    tell application "Finder"
         eject "<shuffle name>"
    end tell
end if
```

end if

General Applescript stuff

From "APPLESCRIPT FOR ABSOLUTE STARTERS" by Bert Altenburg http://www.applescriptsourcebook.com/

Numbers and calculations

set pictureWidth to 8
set pictureHeight to 6
set pictureSurfaceArea to pictureWidth * pictureHeight
Use the following symbols, officially known as operators, for doing basic
mathematical
calculations.
+ for addition
- for subtraction
/ for division
* for multiplication
The exponent is written using the exponent symbol & Here is a script [4]

The exponent is written using the exponent symbol ^. Here is a script [4] that calculates the

volume of a cube.
[4]
set cubeEdgeLength to 10.0
set cubeVolume to cubeEdgeLength ^ 3

Text

set actressRating to "very pretty" set resultingString to nameOfActress & " is" & actressRating display dialog resultingString

set theLength to the length of "I am"

Lists

set myList to {"a", "b", "c", "d", "e", "f", "g", "h"}
set shortList to items 2 through 5 of myList

set theListLength to the length of {"first", "last"}

set itemized to every character of "Hi there."

Data input (record)

set stringToBeDisplayed to "Julia is a pretty actress."
set tempVar to display dialog stringToBeDisplayed buttons {"So, so",
"Don't know", "Yes"}
set theButtonPressed to button returned of tempVar
display dialog "You pressed the following button " & theButtonPressed
-----set temp to display dialog "Who is your favorite actress?" default answer
""
set textEntered to text returned of temp

set personalData to {age:30}

Conditionals

Negative formulations are possible as well, for example, 'is not greater than'. If you type '/=', it is automatically reformatted at compilation as #, which is short for 'is not'. For strings begins with (or, starts with) ends with is equal to comes before comes after is in contains does not start with does not contain is not in

begins with ends with contains is equal to is in

display dialog "" buttons {"", "", ""} default button 3
set the button_pressed to the button returned of the result
if the button_pressed is "" then
-- action for 1st button goes here

```
else if the button_pressed is "" then
```

-- action for 2nd button goes here
else
-- action for 3rd button goes here
end if

For records contains is equal to -- or = [15] set x to {name:"Julia", occupation:"actress"} if x contains {name:"Julia"} then display dialog "Yes"

Error trapping (Try)

try beep set x to 1 / 0 say "You will never hear this!" end try say "The error does not stop this sentence being spoken"

try

set x to 1 / 0

on error the error_message number the error_number display dialog "Error: " & the error_number & ". " & the error_message buttons {"OK"} default button 1 end try

on warning() display dialog "Don't do that!" buttons {"OK"} default button "OK" end warning To use it, your script must call the handler, like this: warning()

Files and folders

tell application "Finder"

open folder "Macintosh HD:users:ik:Documents" end tell

tell application "Finder" open file "Macintosh HD:users:ik:Documents:report.cwk" end tell

tell application "Finder"

move file "Macintosh HD:Users:ik:Documents:report.cwk" to the trash end tell

Loops (Repeat)

set conditionMet to false repeat while conditionMet is false -- if (some test is passed) then execute the following statement -- set conditionMet to true end repeat _____ set conditionMet to false repeat until conditionMet is true -- if (some test is passed) then execute the following statement -- set conditionMet to true end repeat repeat with counter from 1 to 5 say "I drank " & counter & " bottles of coke." end repeat _____ repeat with counter from 1 to 5 by 2 say "I drank " & counter & " bottles of coke." end repeat -----Sub-routines

on circleArea(radius) set area to pi * (radius ^ 2) end circleArea set areaCalculated to circleArea(3)

on older(a)

```
if a > 30 then
    return "older"
end if
return "not older"
end older
set theAge to older(73)
------
set aVariableName to (load script "path here")
To use a handler of the compiled script, you must use a tell block.
tell aVariableName
handlerName()
end tell
```

Speech

say "You have mail" using "Cellos" saving to "announce_mail.aiff" will create the sound file in the root directory.

Sample Application

-- snap2GC Applescript by Michael Paine Dec 2004

- -- For Mac OS X with GraphicConverter
- -- http://www4.tpgi.com.au/users/aoaug/mac_osx.html
- --- This initiates the Unix screencapture function to capture an
- --- area of the screen selected with the mouse (-i) and
- --- saves it to the clipboard (-c) then
- --- starts GraphicConverter with the contents of the
- --- clipboard (by sending the Command-j keystrokes)
- -- For best usage, load into Script Editor and Save As an Application
- -- with the Runtime box checked. Drag the application to the Dock for

--- ready access.

--

-- Excute Unix command

do shell script "screencapture -i -c"

-- Ensure GraphicConverter is active (caution: no error trapping here) tell application "GraphicConverter"

activate

end tell

-- get ready to send keystrokes

tell application "System Events"

-- make GC the active application

tell process "GraphicConverter"

set frontmost to true

end tell

-- send the keystrokes

keystroke "j" using {command down}

end tell