

Photoshop World

Wednesday, April 4, 2007

Jeffrey Tranberry

Adobe Systems, QE Product Lead



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www.tranberry.com

What you will get out of this class

 What's is Scripting and how is it different from Actions?

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- Examine some existing scripts and the problems they solve.

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- What's is Scripting and how is it different from Actions?
- Examine some existing scripts and the problems they solve.
- Discuss some strategies to make scripting more approachable.
- Write a very simple script.
- Look at the Photoshop DOM and documentation
- Build up several different scripts into a more complex workflow scripts.

What's is Scripting and how is it different from Actions?

How is Scripting different from Actions?

- Actions are easy to use. You hit record, do your steps, hit stop and play back.
- Actions while powerful enough for most users, are basically "monkey see, monkey do."

How is Scripting different from Actions?

Get information from Photoshop

- Get names of Documents, Layers, Channels, and do intelligent renaming of files.
- Perform Conditional Actions based on the name of the file, the kind of file, the image size, aspect ratio, color mode, bit depth, or layer type.

How is Scripting different from Actions?

Process multiple Images

- Process folders of images.
- Process all open documents.
- Spawn or create multiple documents.

How is Scripting different from Actions?

Process multiple parts of documents

- Layers
- Comps
- Channels
- or a subset of Layers, Comps and Channels

How is Scripting different from Actions?

Create text files with information from processed images

- .csv/spreadsheets
- ·.xml
- ·.html
- .js/javascript

How is Scripting different from Actions?

Manipulate the file system

- Create new folders.
- Save, copy, and move files.

How is Scripting different from Actions?

Design User Interfaces

Create an easy to use interface for non-scripters.

What's is exactly is Scripting?

- Photoshop supports 3 scripting languages:
 - AppleScript
 - VB Script
 - JavaScript
- AppleScript and VB Script are platform specific scripting languages.



What's is exactly is Scripting?

JavaScript

- Cross-platform, and widely used in web creation.
- ExtendScript is Adobe's flavor of 'extended' JavaScript.
- JavaScript, ExtendScript, ActionScript are all flavors of standardized ECMAScript



What's is exactly is Scripting?

JavaScript

- JavaScript is NOT Java.
- JavaScript is not compiled.
- Requires only only a text editor to create.
- Like HTML, it's easy to start with templates, and/or learn from someone else's code.



Shipping Scripts

File>Scripts>

- Export Layers to Files
- Layer Comps to Files
- Layer Comps to PDF
- Layer Comps to WPG
- Iterate over elements in a single document.



Shipping Scripts

- Iterate over elements in a single document.
 - Duplicate the document
 - Iterate over each layer
 - Add a name prefix
 - Flatten the image
 - Include ICC profile
 - Save the file to one of seven file formats



Shipping Scripts

File>Scripts>

- Image Processor
- Iterates over multiple files



Shipping Scripts

- Iterates over multiple files
 - Open the image
 - Resize Image
 - Run an action
 - Add Copyright info & Include ICC Profile
 - Generate and Save new files (JPEG, TIFF, PSD)
 - Close the file



Shipping Scripts

File>Scripts>

- Script Events Manager
- Attach a script or action to run after a specified event has occurred.



Custom Scripts

Export Layers to Files_PNG



Custom Scripts

- Export Layers to Files_PNG
 - Preserve the transparency
 - Trim Layers



Custom Scripts

Airtight Interactive Post Card Viewer Script



Custom Scripts

- Airtight Interactive Post Card Viewer Script
 - Copy SWF file to gallery folder
 - Generate XML snippet for each image opened
 - Generate HTML
 - Generate Javascript for Flash detection



Custom Scripts

PayPal Web Photo Gallery Script



Custom Scripts

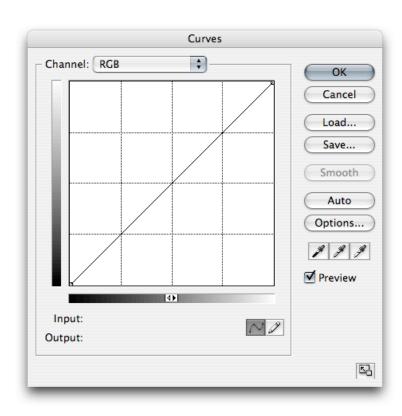
- PayPal Web Photo Gallery Script
- Generate shopping cart code for each thumbnail
 - Generate a preview HTML page for each image
 - Copy frame set and instructions HTML pages



Where do you begin scripting?

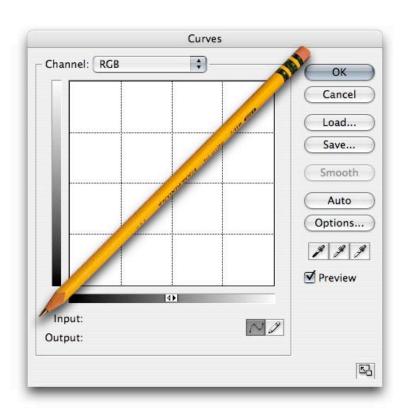


Where do you begin scripting? Metaphors

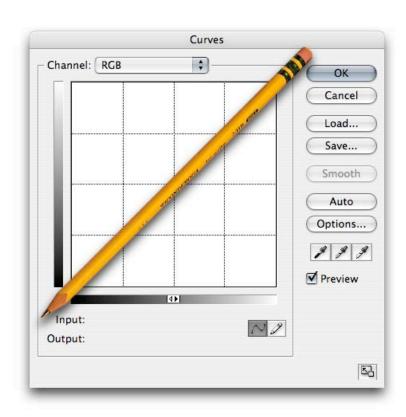




Where do you begin scripting? Metaphors



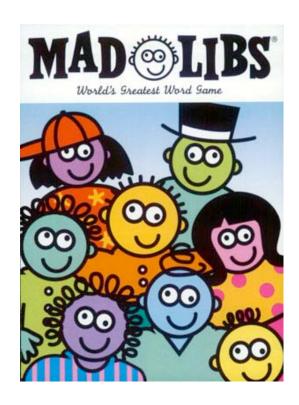
Where do you begin scripting? Metaphors

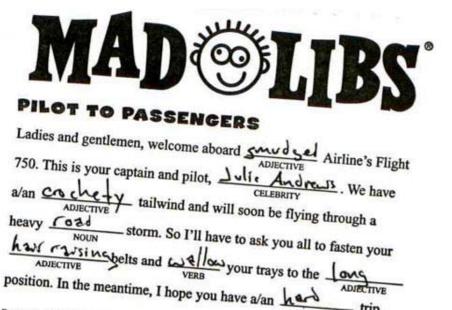






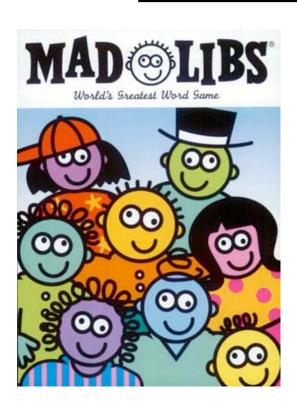
Where do you begin scripting? Metaphors





For temorrow's Mad Libs® choose

Where do you begin scripting? Learn scripting grammar



- You didn't have to write the whole story
- You just had to know a few things about grammar and parts of speech
- Things like verbs, nouns, and adjectives



Where do you begin scripting? Learn scripting grammar



- You don't have to know how to write an entire script
- You just have to know a few things about the programming language



Where do you begin scripting? Learn scripting grammar



- Nouns = Documents, Layers, and Channels
- Verbs = Methods/Functions

F

Photoshop for Geeks

Where do you begin scripting?

```
Errand List:
       Target:
            Return items:
                 Coat (too big)
                 Lamp (broken)
            Purchase:
                 Cat Litter
                 Dog Food
                 Coke
       Grocery Store:
            Purchase:
                 Milk
                 Cheese
                 Garbage Bags
            Recycle:
                 Plastic bags
Batteries
       Bank:
            Deposit Checks
```



Where do you begin scripting? Learn to Pseudocode

```
Open a folder of images:
Errand List:
                                               For each image:
       Target:
                                                   If the image is bigger than 1000px
            Return items:
                                                   Resize the image (1000px)
Unsharp Mask (amt = 105%, r = 1.1px)
                Coat (too big)
                Lamp (broken)
            Purchase:
                                                   Save as:
                Cat Litter
                                                        w/ fileName.jpg
                                                        JPEG (Qlty = 10)
                Dog Food
                                                   Resize the Image (300px)
                Coke
       Grocery Store:
                                                   Save as:
                                                        w/ fileName_Thumbnail.jpg
            Purchase:
                                                        JPEG (Qlty = 5)
                 Milk
                                                   Close file
                Cheese
                Garbage Bags
            Recycle:
                Plastic bags
                Batteries
       Bank:
            Deposit Checks
```



Where do you begin scripting? Use Recipes



Where do you begin scripting? Use Recipes



I cup boiling water

I pkg. Strawberry JELL-O

2 cups mixed berries

I pkg. (8 oz.) PHILADELPHIA Cream Cheese

I-I/4 cups cold milk

I pkg. Vanilla JELL-O Instant Pudding

I tub (8 oz.) COOL WHIP Topping,

thawed

I pkg. (12 oz.) pound cake, cubed

Where do you begin scripting? Use recipes & reuse complex Ingredients



Ingredients: sugar, gelatin, adipic acid (for tartness), less than 2% of artificial flavor, disodium phosphate and sodium citrate (to control acidity), fumaric acid (for tartness), and the colorant red 40.

Where do you begin scripting? Use recipes & reuse complex Ingredients



```
// Given the a Folder of files, open them
function OpenFolder(outputFolder, inputFolder) {
    var filesOpened = 0;
    var fileList = inputFolder.getFiles();
    for ( var i = 0; i < fileList.length; i++ ) {
        // Make sure all the files in the folder are common if ( fileList[i] instanceof File && ! fileList[i] open( fileList[i] );
        filesOpened++;

    var docRef = activeDocument;
    var myImage = docRef.name</pre>
```



Writing your first Script



Extend Script Toolkit (ESTK) Macintosh:

Applications/Utilities/Adobe Utilities/ExtendScript Toolkit

Windows:

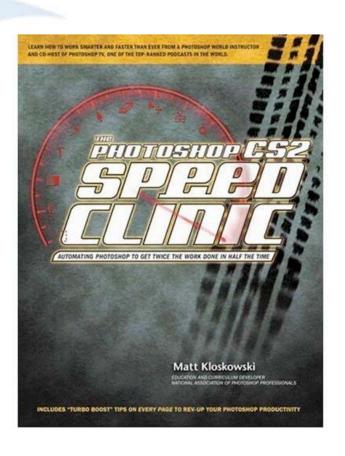
C:\Program Files\Adobe\Adobe Utilities\ExtendScript Toolkit



Where to go for more help with scripting

http://www.tranberry.com/

Where to go for more help with scripting



The Photoshop CS2 Speed Clinic: Automating Photoshop to Get Twice the Work Done in Half the Time

by Matt Kloskowski



Where to go for more help with scripting



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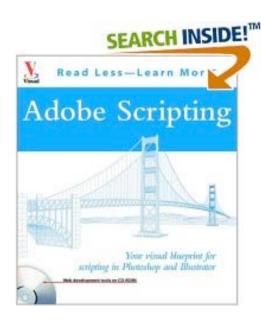
Online Training Library™ » Adobe » Photoshop CS2 Actions and Automation

Photoshop CS2 Actions and Automation with: Deke McClelland

6.5 hours of scripting training

Recording actions and automating common tasks saves time and makes performing repetitive tasks more efficient. In *Photoshop CS2 Actions and Automation*, Certified Adobe instructor Deke McClelland teaches users how to build actions more efficiently and reliably, identifies places where automation functions can be improved, and provides an understanding of JavaScript commands to dramatically expand automation possibilities. Better still, he discusses how to troubleshoot when things go wrong. The instructor also explores the power of workspaces and batch processing, and describes Droplets inside out. The training shows how to turn Photoshop into an industrious, image-crunching, timesaving tool -- and the instructor shares his top insights and techniques. This training title offers expert guidance and instruction to prepare users to automate common (and occasionally complex) tasks.

Where to go for more help with scripting



Adobe Scripting: Your Visual Blueprint to Scripting in Photoshop and Illustrator

by Chandler McWilliams