Scala Script Exporter Manual





Welcome

Welcome to the ArsMedia Scala Script Export Plug-in (SSE Plug-in) for Adobe Photoshop. The SSE Plug-in provides script export support for the Scala line of products and integrates the powerful graphics capability of Adobe[®] Photoshop[®] with the world's most powerful digital signage application.

System Requirements

The ArsMedia Scala Script Export Plug-in requires Microsoft[®] Windows[®] 2000 or Windows[®] XP (SP1 or better) and Adobe[®] Photoshop[®] CS2, Adobe[®] Photoshop[®] CS3 Adobe[®] Photoshop[®] CS4. The SSE Plug-in generates Scala Scripts that are compatible with the Scala[®] Designer, Scala[®] Designer 3 and Scala[®] Designer 5.

How the SSE Plug-in Works

The SSE Plug-in works by examining the individual layers within an Adobe Photoshop document and generating Scala Script compatible objects. Upon execution, the plug-in:

- Selects clips found within the Adobe Photoshop layer(s) and saves each as a new file.
- Generates a "BACKGROUND" file.
- Generates a Scala Script that incorporates the clips on a single Designer page.



Tutorial

Following picture illustrates an example image that was created in Adobe Photoshop:



While creating the image, it was recognized that the SSE Plug-in could create individual graphic clips of the work based on the contents of each layer. It is important to use a different layer for each element of the image that is intended to be used within the Designer application.

To design a background for Scala, either:

• Name the bottom most layer "Background" or "background"

or

• Use true background layer for the bottom most layer

Otherwise, the SSE Plug-in will automatically generate a plain background file.

Individual "clips" can be drawn on distinct layers to allow for controlled application of effects and to help with image organization. The ArsMedia SSE Plug-in captures the clips that are not 100% transparent from each of these layers and creates unique clip files that can then be used within a Scala Script.





In this example, the intention was to have each individual clip and text "fly in" on the final Designer page as individual graphic clips. Therefore each element was drawn on its own *Adobe Photoshop* layer. These layers can have virtually any of Adobe Photoshop's effects applied to them - such as drop shadows, bevels, and gradient fills. Text layers within Adobe Photoshop can also be preserved. Each text layer can be exported as either a graphic or a Designer text element by the *Ars Media SSE Plug-in*.

TIP: To keep a text layer and a specific object element together, select both layers then use Adobe Photoshop's *Group Into New Smart Object* command in the Layer Palette. The SSE Plug-in will export the grouped elements as a single image file.



Exporting the Final Image

Once our image editing is complete, use the Scala Script Export command found in *File>Automate* menu. The *Export Scala Script* dialog is shown. Once a *File name* is entered, click the *Save* button.

For this example, the script is saved as "objects.sca"

Adobe Photoshop			
File Edit Image Layer	Select Filter View	Window Help	Export Scala Script
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Open As	Alt+Shift+Ctrl+O	1	Dijetts
Open Recent	•		
Edit in ImageReady	Shift+Ctrl+M		
Close	Ctrl+W	1	
Close All	Alt+Ctrl+W	1	
Close and Go To Bridge	Shift+Ctrl+W	1	
Save	Ctrl+S	1	
Save As	Shift+Ctrl+S	1	File name: Save
Save a Version		1	
Save for Web	Alt+Shift+Ctrl+S	1	Save as type: Scala scripts (*.sca)
Revert	F12		
Place		1	Background clip: Other clips: Scala script saving options:
Import			O PNG O PNG O Create new script.
Export		1	O RMP O BMP
		1	JPEG O JPEG O JPEG O Append page to existing script.
Automate	•	Batch	O TIFF O TIFF O Owerwrite existing script.
Scripts	•	PDF Presentation	
File Info	Alt+Shift+Ctrl+I	Create Droplet	Layer exporting options:
Page Setup	Shift+Ctrl+P	Conditional Mode Change.	Export each layer set as a single clip. Use layer names as clip file names.
Print with Preview	Alt+Ctrl+P	Contact Sheet II	Advanced Scala script options:
Print	Ctrl+P	Crop and Straighten Photo Fit Image	Advanced Scala script options:
Print One Copy	Alt+Shift+Ctrl+P	Picture Package	Clip directory: X Use Default 🔲 Use absolute path
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LAR	Curry	Getter	
		Listener	
		Scala Script Export	
		Merge to HDR	

The SSE Plug-in displays a dialog that shows the progress of the export process.



Opening Script in Scala

To open the script, double click on the "objects.sca" file and it will be opened in Designer. It is then possible to see that each layer is exported as a separate clip, so additional modifications can be made to the Scala Script.





Understanding Exported File Structure

By default, the SSE Plug-in exports a series of files to the directory specified within the *Save as Scala Script* dialog. In this example, a new folder "Project_01" was created and the *File name* provided was "Objects". The SSE Plug-in generates a folder within the "Project_01" folder named "Objects" and then places the newly exported clip files within that folder.

🔁 Objects				Project_01		
File Edit View Favorites Tools Help				File Edit View Favorites Tools Help		
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weight objects_Rabbit_2.png	32 KB	ACDSee PNG Image	01.09.2006 10:3	🖉 Objects.sca	1 KB ScalaScript	01.09.2006 10:37
www.commonstreamst	26 KB	ACDSee PNG Image	01.09.2006 10:3			
weight objects_Squirrel_3.png	26 KB	ACDSee PNG Image	01.09.2006 10:3			
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<[
5 object(s)	595	KB 📃 My Com	puter //	2 object(s)	625 bytes 🖳	My Computer

In the example above, the clip files were created within the 'Objects' folder:

- 1. object_Background_1.jpg
- 2. object_Rabbit_2.png
- 3. object_RoadRunner_4.png
- 4. object_Squirrel_3.png
- 5. object_Title_5.png

The first file generated is the background file and is used as the background for the newly created script. By default this image is saved as JPEG and is the same dimensions as the original Adobe Photoshop document.

Files 2, 3, 4 represent the image clips in the Adobe Photoshop document, namely the rabbit, squirrel and roadrunner. By default, these images are saved as PNG with transparency preserved.

The last file created is the Adobe Photoshop text layer. This was also saved as a PNG file with transparency preserved. Because the text was exported as a graphic, no further editing of the text is allowed within the Designer application.

During the export process a Scala Script file is created within the 'Project_01' directory. This Scala Script file in our example is named: 'Objects.sca'

The Scala Script file contains all the scripting instructions to reproduce the original Adobe Photoshop document as a Designer page.

Creating Buttons

The Scala Script Exporter Plug-in can automatically recognize Scala compatible Buttons created within Adobe Photoshop.

Adobe Photoshop layers must use layer names with the following parameters:

- BTN_name (normal button state)
- BTH_name (highlighted button state)
- BTS_name (selected button state)

The layer prefixes (BTN_,BTH_,BTS_) are used to identify the unique button states that are used within Designer. The layers must also be in sequential order (BTN_ positioned above the BTH_ which in turn must be positioned above the BTS_ layer).

If a two state button is desired then only use BTN_ and the BTS_ naming conventions. If a single state button is desired use only the BTN_ naming convention.

For example, a three state button is created within Adobe Photoshop named EXAMPLE:

💐 Adobe Photoshop								
File Edit Image Layer Select Filter View Window Help								
Resize Windows To Fit 🗆 Ignore Palettes 🗆 Zoom All Windows Actual Pixels Fit Screen Print Size								
Image: State of the								

Note the layer order: BTN_ EXAMPLE, BTH_EXAMPLE, BTS_EXAMPLE. Each of these layers holds the image clip for the particular button state.

Before exporting Scala Script, position the images one over the other, as shown in the example:



During the export process, the SSE plug-in will automatically generate clips for the button and create a Scala Script that contains the button on a Designer page.



Creating Designer Text objects

It is possible to export Photoshop text layers as Designer text objects. To accomplish this, the layer name must be prefixed with TXT_ (as shown in the following example):



NOTE: When exporting text layers; only font, font size and font colors are preserved. English text is only supported.



UNDERSTANDING THE EXPORT SCALA SCRIPT DIALOG

	port Scala Script	
A —>	Save in: 🔁 Project_01 🗾 🖙 🖻 📸 🖬 •	
в	Dobjects Dobjects.sca	
C →	File name: Save Save as type: Scala scripts (".sca) Cancel	
D→	Background clip: Other clips: Scala script saving options: C PNG PNG Create new script. C BMP C BMP Append page to existing script. C JPEG C JFF C Owerwrite existing script.	E
F	Layer exporting options: Export each layer set as a single clip. Use layer names as clip file name	s. 🔶 G
ų —	Advanced Scala script options: Clip directory:X Use Default Use absolute p.	ath 🔶 K
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The *Export Scala Script* dialog offers a variety of options for exporting:

FILE AND CLIP DIALOG OPTIONS

- **A** Location of the directory where the SSE Plug-in will save the exported files.
- **B** Files listed are Scala Scripts that exist within the chosen directory.
- **C** *File Name* for the exported Scala Script. This name is also used as part of the file name for each file created as well as the Scala Script.
- **D** Background clip allows the user to select which file format to use for the Background Image. The default value is JPEG.
- The *Other clips* option allows the user to select which file format to use for the clips. By default, this value is PNG.
- For clips, the PNG file format will preserve transparency. Other formats use the current Adobe Photoshop background color for the background. It is possible to have Designer use this as the transparent color. However, this approach is cumbersome compared to using the PNG choice.

The SSE Plug-in also preserves any opacity settings within an Adobe Photoshop layer. This opacity is applied to each clip within Scala as the "Overall Opacity". Note that any opacity within an Adobe Photoshop Alpha Channel will not be preserved during the export.

Any layers that are marked as "hidden" within Adobe Photoshop will not be exported.

E Scala Script saving options allows the user to select how the exported Scala Script and image clips will be saved within the selected directory. One of three options is available:

Create a new script: This setting does not allow an export operation to overwrite folders and clips that have the same name. Attempting to do so generates an error message. This is the default option.

Append new page to existing script: Allows the user to append newly generated scripts to existing Scala Scripts. The newly exported script becomes an appended page to the existing script. A couple of conditions must be met for this to work properly however:

- Both scripts must have the same dimensions.
- Any events within the script may not have the same name as any of the Adobe Photoshop layers.

Overwrite existing script: Allows the user to override the "overwrite" protection. Caution should be taken with this setting as this will replace all pre-existing scripts and clip files.

LAYER EXPORTING OPTIONS

F This option provides the user the ability to export Layer Sets as a single clip. By default, objects located on layers within a Layer set will be saved as individual clips when exported. If *Export each Layer Set as single clip* is selected, then all the objects within a Layer Set will be exported as a single clip. In other words, the Layer Set will first be flattened by SSE Plug-in, and then exported.

Note: Adobe Photoshop CS2 has renamed the Layer Set feature to Layer Group.

G This option allows the user to use the Adobe Photoshop layer names as the names for the exported clip files. If meaningful names are used for the Adobe Photoshop layers, this can be helpful when editing the Scala Script generated by the SSE Plug-in. However, keep in mind these two important points:

1. Adobe Photoshop allows the user to use any character in a layer's name. (Adobe Photoshop does have some restrictions, such as ?, /, \, etc.).



2. Adobe Photoshop allows for two or more layers within one document to have the same name.

In order to avoid any conflicts within the SSE Plug-in, the following conventions are followed:

- Unique clip names are generated by the SSE Plug-in using the Adobe Photoshop file name as a prefix in the clip name and then adding the layer's position as a postfix to the clip name.
- The SSE Plug-in checks layer names for restricted characters and replaces them with an underscore "_"character.
- If available, the SSE Plug-in uses the Adobe Photoshop layer names as names for the exported clips. However, if multiple layer names are the same, the SSE Plug-in will create one unique clip containing all of the images within it.

ADVANCED SCALA SCRIPT OPTIONS

H *Clip directory*: Allows the user to select a directory, other than the default, set by the SSE Plug-in.

I *Page Labels*: Allows the user to set a specific label for the page that is created.

J Duration (ms): Allows the user to set the page duration. The value is in milliseconds. The default duration of "0" is converted to "Wait for mouse click".

K Use absolute path: Allows the user ensure that the file paths to the clips are saved in absolute paths instead of relative paths.

L *Defaults*: Allows the user to reset all options to their default values. In order for this setting to take effect the user must shut down the SSE Plug-in and restart it.

Automating the SSE Plug-in

The SSE Plug-in may be used within an Adobe Photoshop action or in Adobe Photoshop batch mode. However, the following consideration should be kept in mind:

If the SSE Plug-in is used within an action or in batch mode, Adobe Photoshop will append a numerical suffix to the Scala Script name (if the export uses a file name that already exists). For example:

If an Adobe Photoshop document named "Sample" was exported to a directory that contained an existing Scala Script called "Sample", then the SSE Plug-in will rename the exported Scala Script as "Sample001", "Sample002", etc. This option ensures unique file names for Scala Scripts when the SSE-Plug-in is used.

A Word about Exporting Effects

Many of the various effects that can be applied to a clip within Adobe Photoshop, such as drop shadow, inner and outer glow, satin etc. are handled by the SSE Plug-in. However, keep in mind the following restrictions:

If a particular effect is applied to a clip layer that changes only inner pixels of that layer, any blending mode can be used for these effects. For example, if *Multiply* or *Screen Blending* mode is used for a *Gradient Overlay*, *Inner glow* or *Inner Shadow* effect; the SSE Plug-in would export a clip that would look identical in Designer as it would in Adobe Photoshop. This is because these particular effects only modify pixels in the clip that are within the clip boundaries.

Some *Adobe Photoshop* effects create pixels outside of boundaries of the clip object currently drawn on a layer. Effects such as "Drop Shadow" or "Outer glow" are some examples of this. Using these types of effects, it is only possible to use the Adobe Photoshop "Normal Blending" mode. Designer only recognizes pixels created using "Normal Blending" mode, therefore the clip may look different in Designer than it does in Adobe Photoshop.

Limitations

Some limitations exist within the *SSE Plug-in* due to the differences between Adobe Photoshop and Designer.

Adobe Photoshop has many layer blending modes, such as multiply, overlay, hard, light, etc. Currently Designer only supports "Normal Blending" mode. This does not mean that the other blending modes cannot be used when designing an image. It just means that you will have to convert layers with the other blending modes to "Normal Blending" mode to ensure that your clips maintain the same appearance in Designer as they do in Adobe Photoshop.

Adobe Photoshop Layer Sets (Layer Groups in CS2) are supported with one exception: The first layer, (the one at the bottom of the layer stack) may NOT be a member of a Layer Set.

The SSE Plug-in also has a resolution limitation set to a maximum width of 8448 pixels and maximum height of 8448 pixels (more than most graphic cards can handle by the way), but total amount of pixels must not be grater than 16777216 pixels.

Error Handling

Rather than interrupting the export operation in the event of an error occurring, the SSE Plug-in generates an "Error.log" file within the clip folder directory. If an Error.log file is found after performing an export, the user should examine the file. It is a plain text file and can be opened with any text editing application (such as Windows Notepad). The file's contents will list any operations that failed to execute. If

there is a fatal error (such as a lack of sufficient memory to perform the operations) the *SSE Plug-in* will abort **and** *Adobe Photoshop* will report an error.

Support

ARS Media provides email support to registered users of any of our products. If you have any questions about any of our products, please contact us via email at: **support@arsmedia.tv**

We endeavor to respond to all questions within 24 hours (1 working day). Usually questions are handled much sooner. We don't use auto responders, so all questions and requests will be handled by our staff of professionals.

You may also contact our CEO anytime via email at: vladaz@arsmedia.tv

We are always looking for ways to improve our products, so we encourage you to let us know what you think.

Thank you from the ARS Media team.

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- 75 element (3D and Zoom) Wipes, 20 of which provide a very effective "Through" variant.
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From Our Users...

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