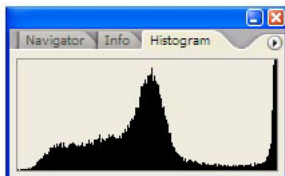


Using scripts to achieve more with Photoshop

Scripts can help you perform tasks more quickly—or even bring new functionality to Adobe® Photoshop® CS2. For example, there is no Photoshop command to extract data from a histogram, but using a script, you can capture the data for analysis in Microsoft Excel or another spreadsheet or database application. In this tutorial, we show you how to use the free script at <http://www.adobe.com/digitalimag/science.html> to extract the data to a log file, or how to customize the script for your own research. You can also download scripts that other Photoshop users have written, or write your own!

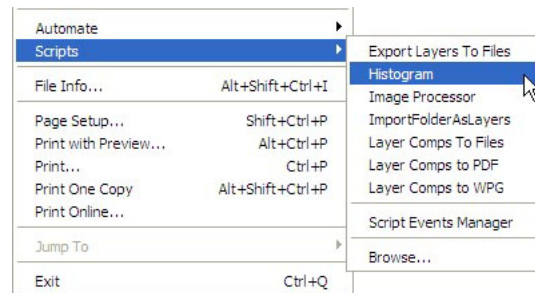
Histogram report for CT.jpg with a total pixel count of 44758

```
One X = 26.18 pixels.  
Luminosity  
Mean Pixels: 129.748827025336  
Std. Dev. Pixels: 62.5270438732611  
Median Pixels: 125  
000 X  
001 X  
002 X  
003 X  
004 X  
005 X  
006 X  
007 X  
008 X  
009 X  
010 X  
011 X  
012 XX  
013 X  
014 X  
015 XX  
016 XX  
017 XX  
018 XX  
019 XXX  
020 XX
```



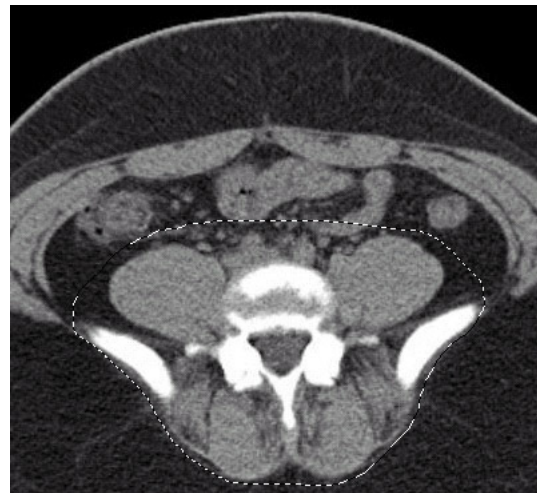
1. Place the script in the Scripts folder.

Download the Histogram.js script from <http://share.studio.adobe.com> into the Photoshop CS2/Presets/Scripts folder. Photoshop recognizes JavaScript files in this folder as scripts and displays them in the Scripts menu. (If Photoshop is open when you copy the script to the folder, close and restart Photoshop.)



2. Select the region of interest.

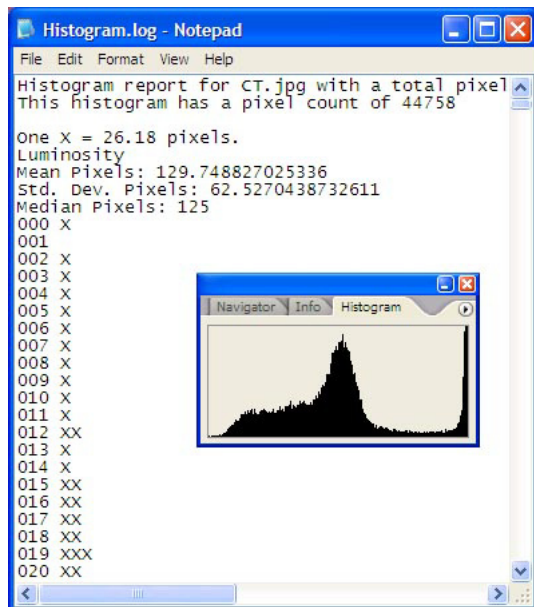
Open the image you want to analyze. Then, use a selection tool (such as a marquee or lasso tool) to outline the region of interest in the image.



3. Run the script.

Choose File > Scripts > Histogram.js to run the Histogram script. This script creates a histogram from the selected area and exports pixel data to a report named Histogram.log on your desktop.

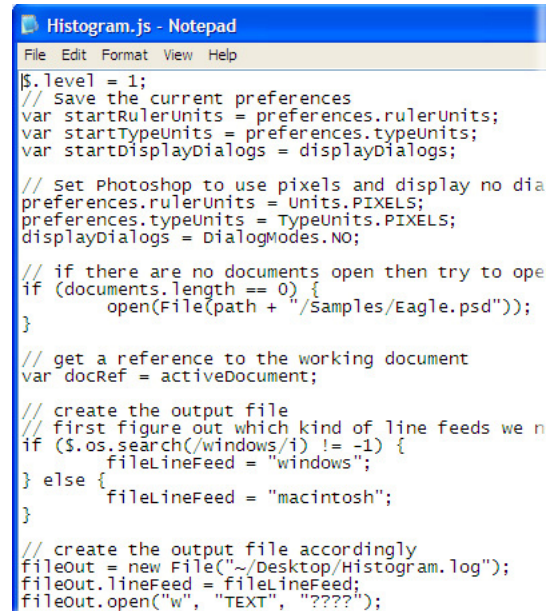
The Histogram report includes: the total pixel count of the image; the pixel count of the selected area; the mean, standard deviation, and median values; and other data from the histogram.



4. Customize the script, if necessary.

You can customize the script, for example, by modifying the data the script collects or how it organizes the data. Open the script in a text editor such as Notepad. Explanations of the purpose of each section of the script are included in comments; read the comments section to find the area you want to modify. When you have made changes, save the script with a .js extension and test it in Photoshop.

For information about writing scripts for Photoshop, see the Scripting Guide installed with the application. The Scripting Guide is also available at http://partners.adobe.com/public/developer/photoshop/sdk/index_scripting.html.



5. Use scripts to perform other tasks.

Scripts are especially valuable for automating tedious processes and for performing tasks that aren't available through Photoshop commands. Photoshop supports scripts written in three scripting languages—AppleScript for Mac OS, Virtual Basic or VBScript for Windows, and JavaScript for both operating systems.

Photoshop CS2 includes several scripts, available in the Scripts submenu. Additionally, hundreds of scripts that have been developed by Photoshop users are available free through Adobe Studio Exchange at <http://share.studio.adobe.com>.