



# PhotoTune

S O F T W ▲ R E

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# SKIN TUNE™

Windows & Macintosh

**NEW**  
**version**  
**2.0**

Now 16 Bit Compatible

## User Guide

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Written and designed by PhotoTune Software.

## Windows Installation

1.) Double-click on Installer.exe to run the setup program. If the installer can't find Photoshop, use the Choose button to locate Photoshop's Plug-ins Filters folder. It is normally located in c:\Program Files\Adobe\Photoshop\Plug-Ins\Filters.

2.) Next time you use Photoshop, SkinTune will appear as a new menu item under Photoshop's Filter menu. Look for PhotoTune SkinTune.



### System Requirements

SkinTune is a Photoshop plug-in, compatible with:

Photoshop 7, CS, and CS2, or Photoshop Elements 2, 3, 4, and 5.

Windows 98 to XP.

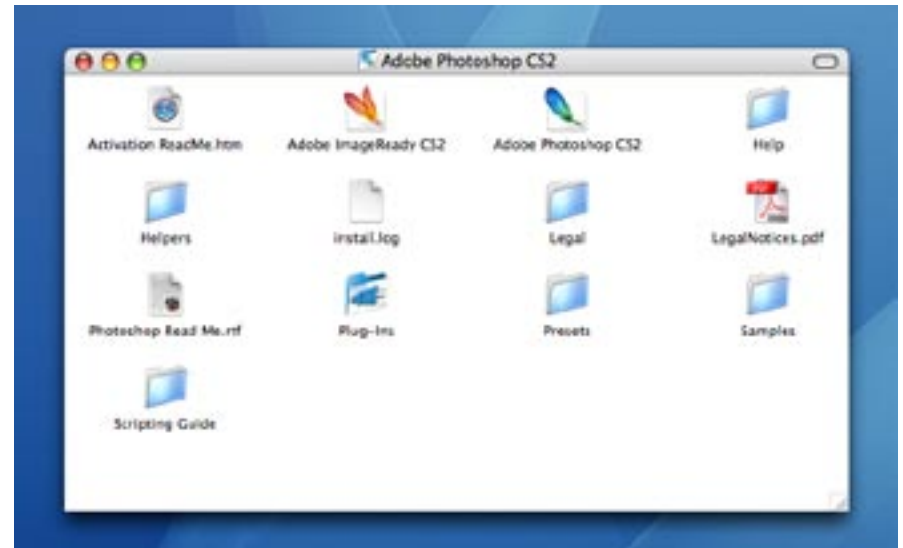
Minimum screen resolution of 800x600

8 bit and 16 bit RGB images. File types include Tiff, JPEG, Photoshop, BMP, and PICT.

## Macintosh OSX Installation

1.) Move SkinTune and the skin color libraries into Photoshop's Plug-ins folder located in the Applications Folder on your hard drive.

2.) Next time you use Photoshop, SkinTune will appear as a new menu item under Photoshop's Filter menu. Look for PhotoTune SkinTune.



### System Requirements

SkinTune is a Photoshop plug-in, compatible with:

Photoshop 7, CS, and CS2, or Photoshop Elements 2, 3, and 4.

Mac OSX 10.2+.

Minimum screen resolution of 800x600

8 bit and 16 bit RGB images. File types include Tiff, JPEG, Photoshop, BMP, and PICT.

### Entering Your Serial Number

When you start SkinTune, a dialog box will appear giving you an opportunity to enter your serial number by clicking the Register button. Until a serial number is entered, SkinTune will be restricted to demo mode, which provides 20 tries before timing out.



## Welcome To SkinTune

If you're a fashion, portrait, or wedding photographer, you know first-hand how difficult it is to correct skin color. You tweak, adjust, and experiment with Curves, but the slightest alteration can cause an unwanted color shift.

With SkinTune, all you do is open an image in Photoshop, select PhotoTune SkinTune from the Filter menu, click to select a color, and SkinTune automatically corrects your image. After SkinTune does its magic, you're free to fine-tune the results by adjusting hue, brightness, contrast, saturation, and dynamic range.

## Skin Color Research

Correcting skin color is one of the most daunting, and time-consuming tasks professional photographers face every day. The problem is that the range of acceptable skin color is very, very limited, and it varies slightly for different races. Additionally, skin color is difficult to render and display on a computer monitor, so making accurate adjustments is almost impossible.

We spent years studying skin color, and collecting thousands of sample images from around the world. Then, we took precise spectrophotometer measurements and compiled a complete reference database of acceptable colors. What we discovered is that skin color represents less than half of 1% of all available colors. So, it's no wonder that correction is such a difficult process, especially when Photoshop's tools were never designed to handle such a small range of colors.

Our next step was to construct complete libraries for different races, including African, Asian, Caucasian, Latin, and Middle Eastern. Each library contains between 120,000 and 150,000 colors made up of different combinations of hue, brightness, and saturation, based on the unique characteristics of each race.

### Custom Tools

Understanding skin color was only half the battle. It was obvious that we also needed to create specialized tools designed specifically for skin color adjustment. One thing you'll notice with SkinTune is that all the adjustments are totally independent, so adjusting brightness, as an example, has no effect on hue or saturation. This is important because an adjustment of as little as 1% can easily result in an out-of-gamut skin color.

Most people don't realize that you can't adjust brightness in Photoshop Levels or Curves without altering hue. That is OK under most circumstances, but not with skin color where hue is the most critical component in achieving accurate results.

Finally, we needed to find a way to increase the precision of SkinTune to provide maximum control over the skin color spectrum. Our tools are twice as precise as Photoshop so you can make very subtle adjustments and achieve life-like results. As you can tell, we worked hard to make your job easy.

### Our Heritage

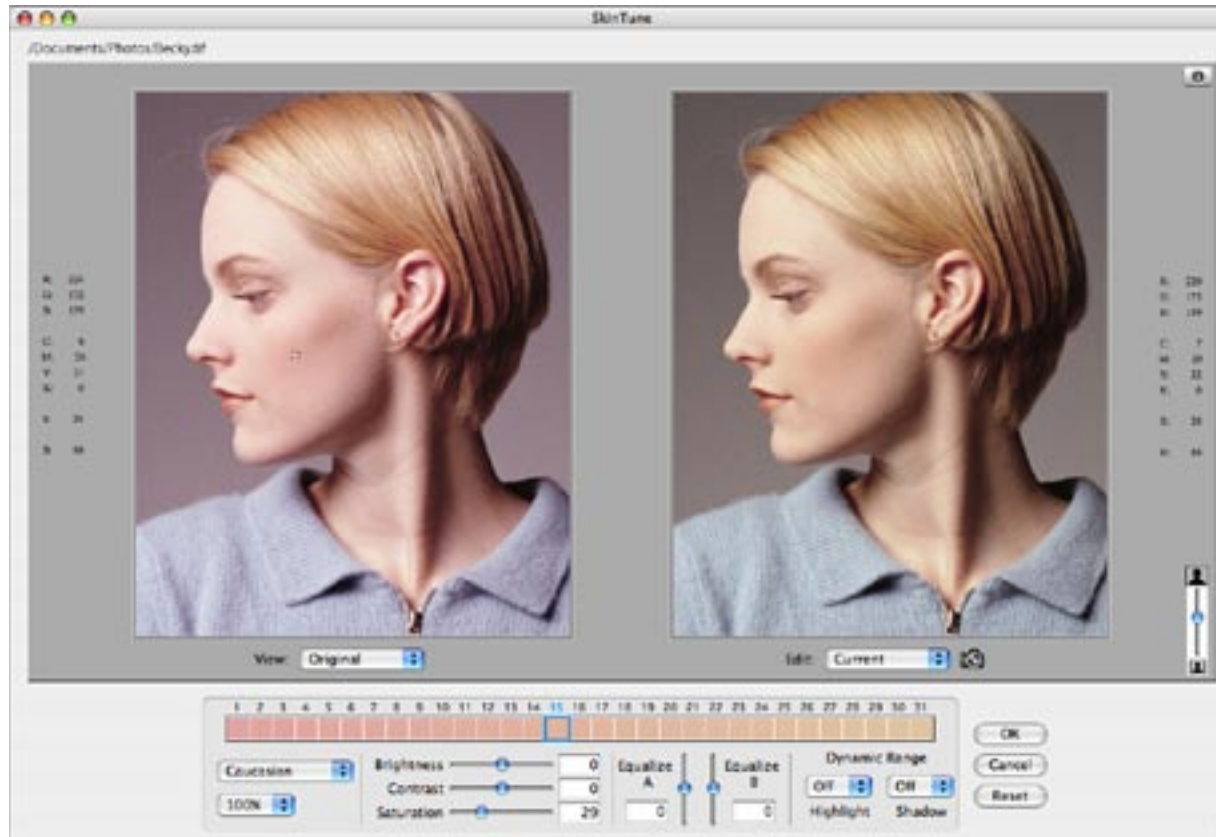
Like all of our award-winning programs for professional photographers, SkinTune has a unique and elegant interface. Corrections are fast, easy, and mistake-free. With SkinTune added to Photoshop, you can spend more time behind a camera, taking photos, and less time in front of a computer, fixing photos.



*The skin color spectrum is less than 1% of all available colors.*

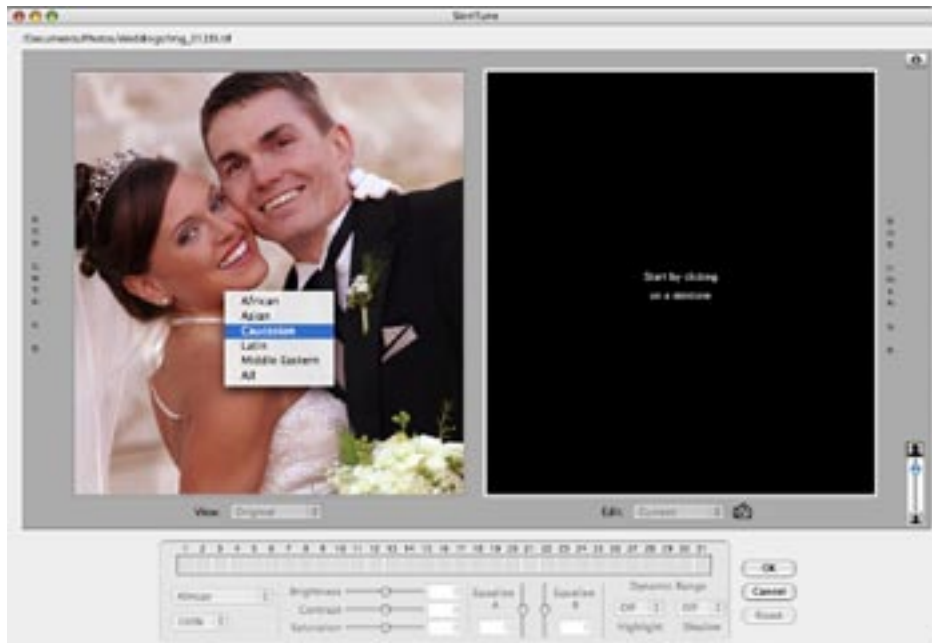


**NEW  
version  
2.0**



## New Features & Enhancements

- 16 Bit compatibility. Now, you can open your RAW images in Photoshop and correct them in SkinTune.
- The skin color libraries have been totally rebuilt, and target colors have been refined to offer better results from the start. There is also a new skin color library named All, which is a generic library that encompasses all colors from all nationalities.
- New adjustment sliders have been added and previous functions have been greatly improved. You can now make major edits, whereas the previous version was only capable of minor fine-tuning.
- The Hue range has almost doubled in size to 31 color swatches, providing even greater control.
- Equalize A and Equalize B sliders is a major new feature that helps you precisely fine-tune hue and achieve perfect skin color.
- You can now record up to 4 Snapshots. Plus, new Snapshot management features have been added to deal with the additional features.
- All adjustments have been refined and improved for better color results. Plus, 8 bit and 16 bit adjustments share the same polynomial equations so results will match perfectly.
- New Hand Tool. When you move your mouse over the right-hand preview, a hand tool automatically appears. Just click and drag to pan the image.
- Dynamic Range has been added so you can quickly and easily set highlights and shadows.
- Photoshop selections now preview in SkinTune.
- A single Save History file will work on either an 8 bit or a 16 bit image to simplify your workflow.
- Window Resizing has been added. Just click and drag the bottom right corner of the window.
- When using multiple monitors, SkinTune now opens on only the main monitor.
- The user interface has been totally redesigned and upgraded to accommodate all the new adjustment sliders and tools.



## Quick Start Guide

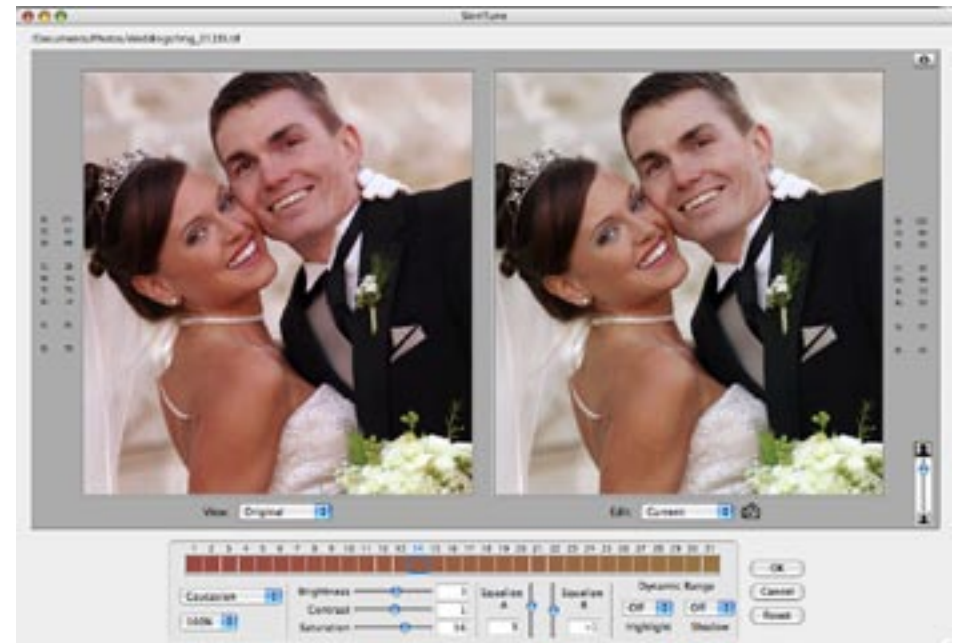
1. To begin, open an image in Photoshop, and then choose PhotoTune SkinTune from Photoshop's Filter menu.

SkinTune can open 8 bit and 16 bit RGB files.

When SkinTune opens, a single image is displayed in the left preview area. All the tools are grayed out and inaccessible. Only the Zoom slider and image panning can be used at this time.

2. The first step is to use your mouse to select a flesh tone in the original image. After you click, a contextual menu appears listing the available skin color libraries. Choose a library.

After selecting a library, a new Current image is displayed, and all the tools are active and ready to use.



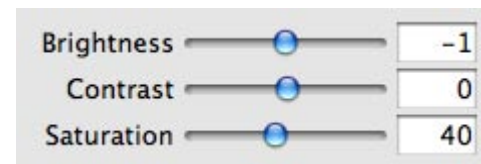
3. You can randomly correct the image using any tool, but the suggested sequence (below) can help produce better results in less time:

A. First, adjust the Hue by clicking on different color swatches.

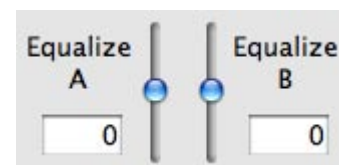


B. Then, adjust the Brightness slider until you are pleased with the results.

C. Next, work on Saturation.



D. Finally, use the Equalize A and B sliders to fine-tune the skin color.



# Interface Design

After you click to select a flesh tone, SkinTune displays your Original image alongside the Current corrected image. A complete set of tools lets you fine-tune and perfect the results.

## Color Swatches

SkinTune displays a set of colors that can be used to adjust the Current image. The active color is highlighted with a green outline. Click on a different color to choose a new target color.

The color swatches contain different color variants or hues with warm colors to the left and cool colors to the right. Equalize sliders adjust

## Race Pop-up Menu

Skin color Libraries for African, Asian, Caucasian, Latin, Middle Eastern, and All are available under the pop-up menu. Each library contains more than 120,000 skin colors.

## Percentage Pop-up Menu

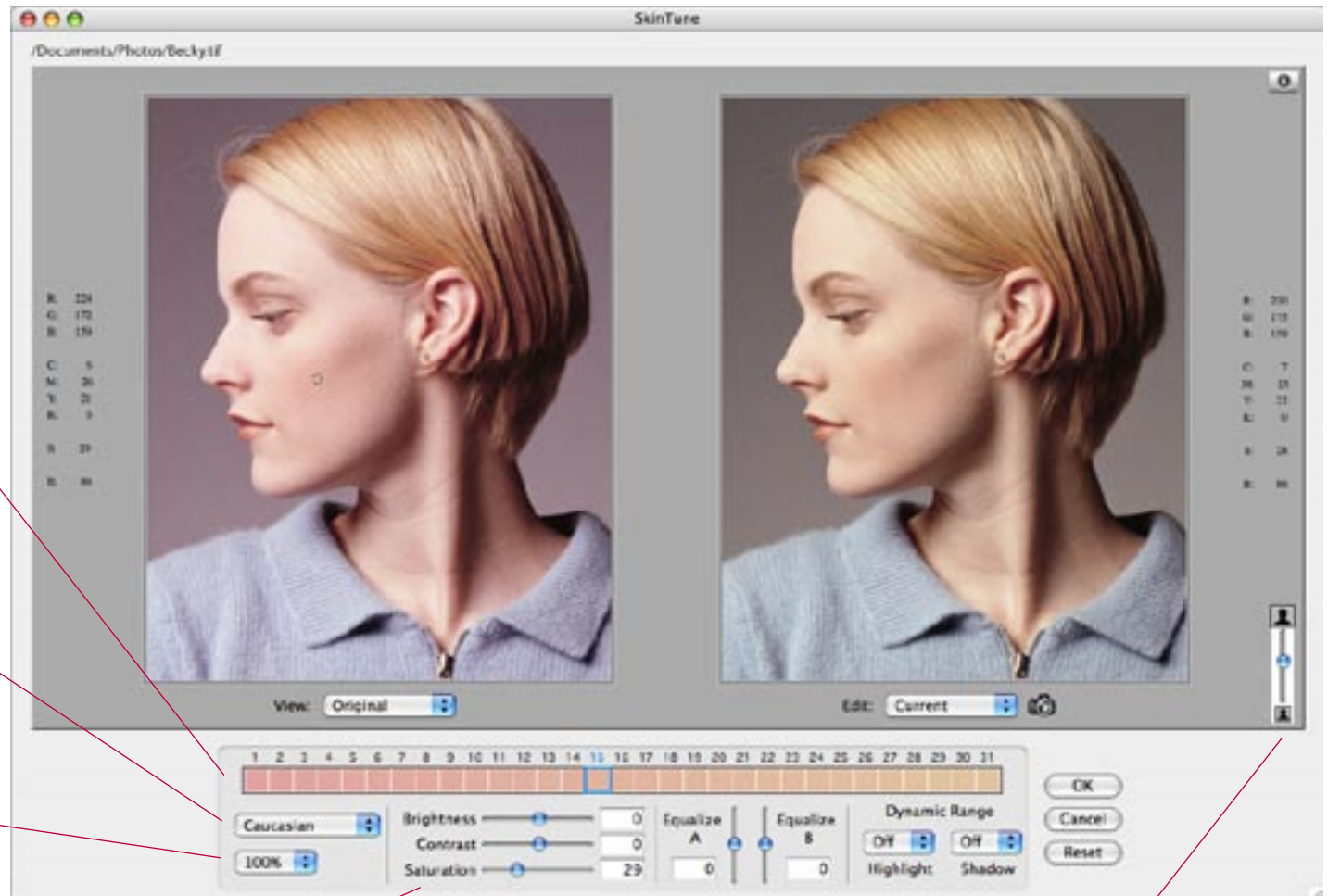
SkinTune adjusts your image to the nearest target color in the chosen library, based on your click point. The 50% option cuts the adjustment in half, while 25% reduces the adjustment in half, again. 0% is also available.



## Snapshot

The Snapshot command lets you make a temporary copy of the Current preview, along with a record of your corrections. That way, you can compare different results, and experiment with different alterations without losing your prior changes.

The Original and Current Pop-up menus under the preview images control Snapshot functions.



## Brightness Slider

The brightness slider uses a custom midtone curve that lightens or darkens the image without data loss. The midtones are affected more than the highlight and shadow regions.

## Contrast Slider

The contrast slider uses a custom S-curve that increases highlights, while decreasing shadows.

## Saturation Slider

To start, saturation matches the click point of your original image. Adjusting saturation will not effect color or brightness.

## Equalize A & B

To the right of the main sliders are the Equalize A and B. These vertical sliders are used to fine-tune the skin color.

## Zoom Slider

To begin, the image is always reduced to fit. The vertical Zoom slider lets you increase or decrease the size of the preview images.



## Pan Tool

If the image is cropped, you can reposition it using the pan tool. Just place your mouse over the right-hand preview image, then click and drag.



## 16 Bit Support

Most high-end digital cameras now feature RAW image format as an option to JPEG and Tiff. RAW, as the name implies, is the raw file with no camera processing like sharpening, white balance, or color adjustment. Another advantage of RAW is more pixel data with 16 bits of information per channel rather than 8 bit. Standard 8 bit provides 255 levels of data for each of the three channels in RGB. This equates to 16.5 million different colors. 16 bit increases each channel's data to from 255 to 65,535 levels. 16 bit helps prevent image degradation during manipulation and color correction.

At start-up, SkinTune will automatically recognize 8 or 16 bit images and process them accordingly.

In SkinTune version 2, all adjustments have been refined and improved for better color results. Plus, 8 bit and 16 bit adjustments share the same polynomial equations so results will match perfectly.



### Dynamic Range

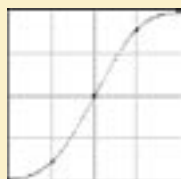
Many digital images have a flat appearance due to a compressed dynamic range. This happens when pixel values don't extend to the maximum range from 0-255. Dynamic Range converts the lightest pixel to white, the darkest pixels to black, and remaps all the pixels in between. A percentage of pixels on each end of the spectrum are clipped to insure a proper result. Clipped pixels are converted to black or white. The clipping amount is adjustable by selecting one of the five preset clipping amounts in the Highlight Clip and Shadow Clip pop-up menus. You should use the smallest amount possible to avoid excessive data loss, and an overly contrasty appearance.

Our Dynamic Range's default clipping percentage of .02, is twenty-five times less than Photoshop's default setting. And, our Dynamic Range does not alter the color balance.

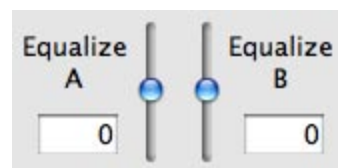
**Note: Highlights on a face can become too burned-out, so use judiciously.**

## Contrast

The contrast slider uses a custom S-curve that increases highlights, while decreasing shadows. An S-curve is the preferred method of professionals. The available range is -50% to +50%, in 1% increments.

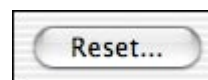


*SkinTune's Contrast uses a custom S-curve adjustment, with highlights moving in the opposite direction of shadows. This method is designed to prevent data loss. On most images, you'll find that a 1-5% increase will provide the necessary "snap" to improve contrast.*



## Equalize A & B

New to SkinTune version 2, are the Equalize sliders. These sliders are used to fine-tune the color obtained from the Hue Swatches. Moving the Equalize sliders up will increase the warmth, while moving either slider down will produce a cooler image.



### Reset Button

When you click on the Reset button, SkinTune reverts to the original settings that were applied when you last clicked on the original image with the eye dropper tool.



All the adjustments you have made will be lost, unless you make a Snapshot or Save History before clicking reset.



### Sound Effect

When you make a Snapshot, a camera shutter release sound is played.

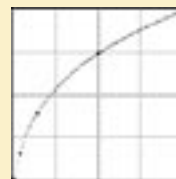
If you want, you can turn the sound effect off:

1. Start SkinTune.
2. Click the About button  on the top right corner of the window.
3. After the About box appears, click the speaker button  located on the top right corner of the About box.

This will change the default, so the sound effect will remain off unless you turn it back on.

## Window Resizing

Window resizing is a new feature added to SkinTune version 2. Just click and drag the bottom right hand corner of the window with your mouse to resize the window. The standard close, maximize, and minimize buttons have also been added to the top of the window.



*Color and brightness adjustments use an exclusive curve adjustment, as shown here. This method is designed to prevent data loss. The largest change occurs in midtone and shadow areas that contain the highest levels of saturation, with a less pronounced effect in the highlight areas.*



## Click-Points

Your flesh tone selection is an important first step in achieving good results. Here are some things to consider:

1. Select a mid-tone color. Choose an area that is a good representation of the average color, brightness, and saturation of the image.
2. If the overall skin color in your image is too red, as an example, click on an area that contains this color cast so SkinTune can try to fix it.
3. Avoid shadows and highlights.
4. Avoid facial hair and make-up.
5. The program takes a 7x7 pixel average based on your click point, so choose a smooth, uniform area.
6. At any time, you may select a new click-point, which will reset the results.

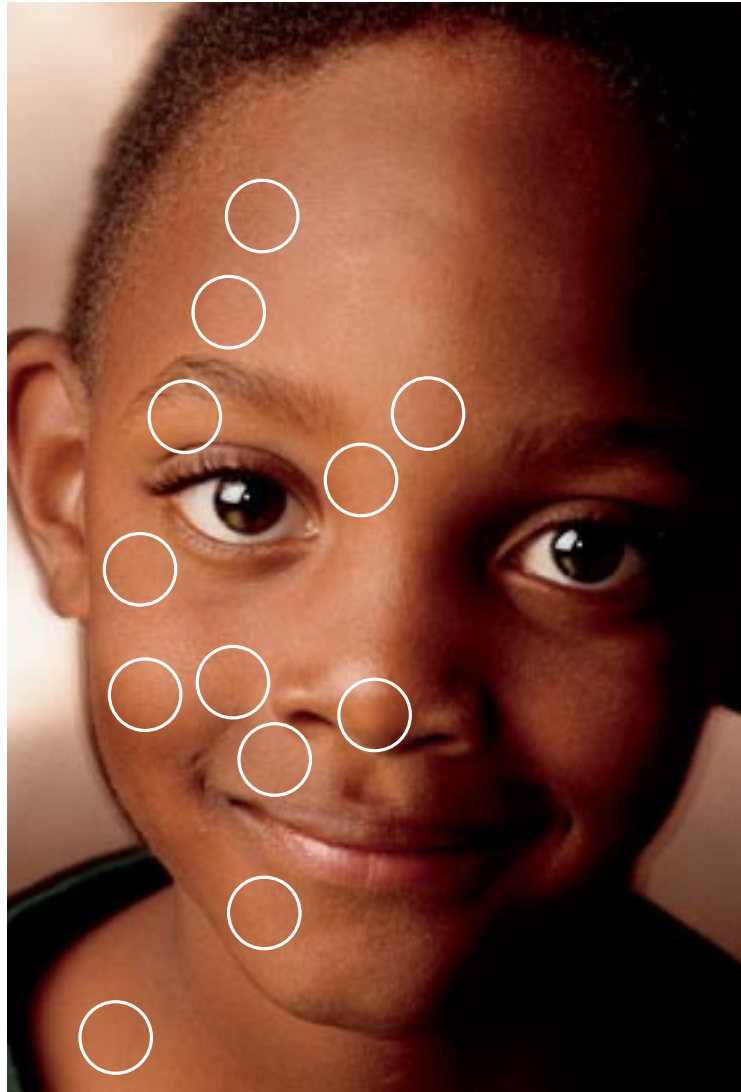
## Checking Your Selection

After you make a selection, check to make sure you are within range.

Based on your click-point selection, SkinTune finds the nearest acceptable skin color from the library. If the Current image comes up looking bad, it is an indication that your click-point fell outside the boundaries of the library. The solution is to click on a different area of the face until a more desirable Current image appears. See the section above regarding click-points.

Be sure to click an area that puts the saturation and brightness sliders towards the middle of the slider instead of the ends. On an overall light image choose a darker area, and on a dark image choose a lighter area. That way you will avoid the boundaries of the library and make the correction a midtone adjustment. Whenever you are near the minimum or maximum values, whether in Photoshop features or with SkinTune, the adjustment range will be restricted and provide less quality.

Next, understand that your click-point selection is just the beginning of the correction process. This first step is required, because SkinTune needs a target point from the library to set all the sliders and parameters. The library data is used



to control all the subsequent adjustments you make.

Your click-point selection is used to set Hue, Brightness, Saturation, and Equalize. When you adjust any of these, SkinTune refers to the specific data regarding the nationality. Each library is compiled from thousands of skin tone samples.

The hue range is displayed on the color swatches, with current target color highlighted. You can click to select a new target color. Again, stay away from the 4 or 5 color swatches located on the far right and left edges. These hues are only provided to give you a larger working range and they fall outside the actual skin color spectrum.

The available spectrum for skin is very, very, limited, so minor adjustments are usually all you need. SkinTune's hue adjustment offers twice the precision of Photoshop.



## Using The Snapshot Function

The Snapshot button (camera) is located under the right-hand preview image. You can record up to four Snapshots of your work. After that, you will be prompted to replace a Snapshot whenever you make a new Snapshot.

A Snapshot makes a temporary copy of any state of the image, and lets you work from that point forward. In this way, you can experiment, or compare different effects while retaining a copy of your previous edits.

For example, you can make changes and tweak colors, take a snapshot, and then display and compare different versions side-by-side. Then, take another Snapshot any time you have made an improvement, so you can recover your work easily. Just select a Snapshot from right-hand pop-up menu to recall the previous saved version.

The “View” and “Edit” pop-up menus, located under the preview images, are used to control and manage the Snapshot functions. When a Snapshot is selected from the right-hand pop-up menu, the sliders are updated to reflect the adjustments saved with the Snapshot. Only the right-hand preview can be edited. Displaying a Snapshot in the left-hand preview is for display purposes only.

The pop-up menus contain the following items:

### Left Menu

Original  
Snapshot 1, 2, 3, 4

### Right Menu

Current  
Snapshot 1, 2, 3, 4  
Save History...  
Load History...

## Managing Snapshots

Every time you make a Snapshot, it is listed in both pop-up menus located under the preview images. You can use the pop-up menus to display any combination of Snapshots you’d like. Only the preview image on the right can be edited and altered with the sliders. Whenever a Snapshot is displayed on the right, the sliders are updated to show the recorded adjustments that were saved with the Snapshot. You could load Snapshots on both the left and right, so you can compare two images side-by-side while you make changes.

If you make changes to a Snapshot, and then switch to a different Snapshot, SkinTune will ask if you want to save the changes before you switch.

If you want to make a new Snapshot, and you’ve used up your allotment of 4 Snapshots, SkinTune will ask you which of the current Snapshots you want to replace.

## Typical Workflow

Like everything in SkinTune, Snapshot is designed to speed up the correction process. Snapshot is a safety net that lets you continue experiment with different combinations without losing your previous edits. Take a Snapshot whenever you want to preserve a set of correction parameters so you can continue experimenting with impunity. Here’s a typical workflow using Snapshot:

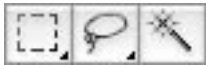
1. Make your normal adjustments.
2. Take a Snapshot to record your adjustments.
3. Then experiment with other edits, and make another Snapshot.
4. Use the pop-up menus to compare different Snapshots.
5. Save History if you want to reuse your changes on a future image, or click OK to process the changes shown in the right-hand preview.

## Save History and Load History

Snapshots are a temporary record of your image adjustments. But, you can permanently save an unlimited number of Snapshots to disk. To save on your hard disk, choose the Save History option in the Current pop-up menu, and specify a name and location for the file. Use the Load History option to open a previously saved setting. Load History will overwrite and become the Current preview. Then, you can edit the Current image using all of the tools in SkinTune.

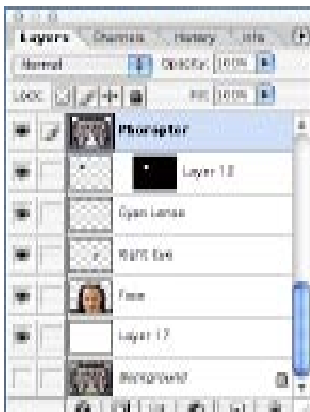


## Using SkinTune With Photoshop



### To use SkinTune on selected areas

1. Choose one of Photoshop's selection tools from the tool palette, and select a portion of the image.
2. Open SkinTune, and make changes as you normally would. The corrections will only be applied to the selected areas.

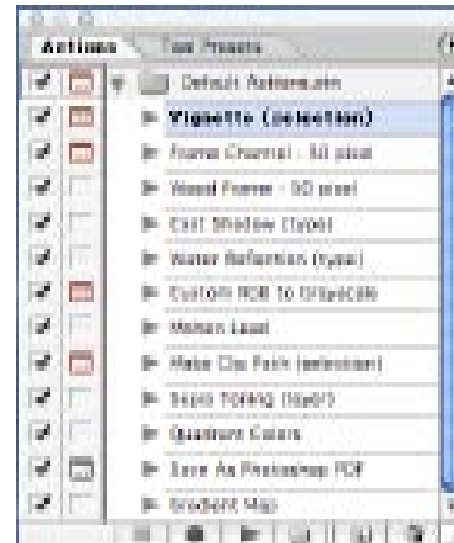


### Photoshop Layers

Photoshop lets you place artwork on separate layers to make the construction of composite images easy. SkinTune is designed to work with Photoshop layers, so you can color correct individual elements separately.

### To use SkinTune with layers

1. Display the Layers palette (choose Window>Layers).
2. To activate a layer and work on its contents, click on the appropriate layer name listed in the Layers palette. The layer is highlighted to show that it has been selected. Then, open SkinTune.
3. To work on a portion of one layer, select the layer as described above and use a selection tool to select a portion of that layer. Next, open SkinTune. The adjustments will be applied to the selected area.



### Batch Processing

SkinTune supports Photoshop's Action Palette, so multiple images can be processed automatically, with SkinTune's functions.

### Using Photoshop's Actions

1. From within Photoshop's Action Palette, start a new Action.
2. Photoshop will record every step, including SkinTune functions, so they can be replayed on an image or a batch of images automatically.
3. To replay the action on a single image, select the action in the action palette, and select "play."

To replay the action on multiple images, choose Automate>Batch from Photoshop's File menu. A dialog lets you select an action, choose a folder of images to process, and set other parameters for opening, closing, and saving files.

### Last Filter

SkinTune supports Photoshop's Last Filter command located at the top of the Filter menu. This lets you replay SkinTune's last correction on other images. The menu item is available until you use a different filter.

### Fade

SkinTune supports Photoshop's Fade command, which is located in the Edit menu. This allows you to reduce the effect of SkinTune's last adjustment from 0-100%. The Fade command is similar to changing the layer opacity in Photoshop's Layer Palette.