#### **POLAROID EMULATION**

The Polaroid SX-70 Camera was a sensational tool. It took photographs in real time. But just the color balance of the film and they way it developed had a unique look. Here are some possible ways to emulate the look of that film.

You could take this further and add an SX-70 frame, but if you do so you should, know the real dimensions of the frame. The image size is 3 x 3.125". The overall frame is 3.5 x 4.25". The top border is slightly larger than the sides at 1/8" (0.125")

Some of the characteristics of a Polaroid style photograph are:

- Increased Saturation & Contrast
- Extra Warmth / Color Shift
- Chromic Aberration
- Edge Vignette
- Softened / Blurred
- Film Grain

# **INCREASED CONTRAST, SATURATION & CLARITY**

Three of the main adjustments that are performed on many photographs can be pushed a little harder to make stunning changes. These are easily achieved with curves adjustment layers.

# **Increase the Contrast >**

The contrast is raised for most shots straight out of the camera. This is typically accompanied by a lowering of the gamma, the middle gray point, to darken and richen the photograph.

<u>add</u>		_ a CURVES adjustment layer with a typical typical S CURVE,
	pull	the HIGHLIGHTS up
	pull	the shadows down
	İower	the midpoint GAMMA as desired

# Increase the Saturation or Vibrance >

The difference between Saturation and Vibrance is that Vibrance does not affect caucasian skin tones, i.e. the pink to orange to yellow range.

<u>add</u>		a VIBRANCE adjustment layer
	pull	the SATURATION up
use	•	_ VIBRANCE instead if there are skin tones in the photograph

### Increase the Clarity >

Clarity is midtone sharpness. The Layer Sharpen recipe, made famous years ago by David Blatner, author of 15 books including 'Real World Photoshop', is used and then restricted with the Blend If option in Layer Styles.

select	the image layer	
duplicate	the layer	[CMD] J
convert	for SMART FILTERS	FILTERS > CONVERT FOR SMART FILTERS
set	BLENDING MODE to OVERLAY	[SOFT LIGHT for less, HARD LIGHT for more]
run	HIGH PASS filter	FILTERS> OTHER> HIGH PASS
open	LAYER STYLES by double-clic	king on the layer name
adjust	BLEND IF so only the mi	dtones are affected

#### **WARMING**

Polaroid photos have an overall warmth and creaminess. This is partially caused by color shifts and enhanced by a slightly soft focus.

### Warming with a Solid Color Layers >

add a SOLID COLOR adjustment layer
select a light beige in the color picker
set the BLENDING MODE to MULTIPLY (to darken and warm the highlights)
adjust the opacity down if needed
add a SOLID COLOR adjustment layer
select a deep red-brown in the color picker
set the BLENDING MODE to SCREEN (to lighten the shadows)
adjust the OPACITY down if needed

# Warming with a Gradient Mask >

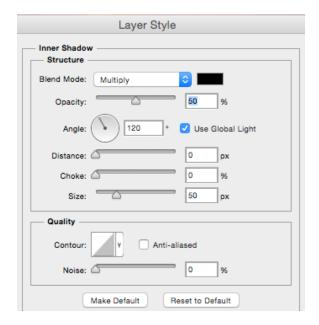
set the FOREGROUND COLOR to a light beige
set the BACKGROUND COLOR to violet
add a GRADIENT MASK adjustment layer
the FOREGROUND and BACKGROUND colors will be the end points
it will look negative until you set the blending mode
set the BLENDING MODE to SOFT LIGHT
adjust the OPACITY down if needed

#### **EDGE VIGNETTE**

Polaroid prints tend to be darker around the edges of the frame. This is different from the typical circular lens vignette. The INNER SHADOW LAYER STYLE will achieve this easily.

# Appl;y Layer Style for Edge Vignette >

add an INNER SHADOW LAYER STYLE to the image layer keep BLEND MODE on MULTIPLY select the OPACITY low ~ 40-50% set the DISTANCE and CHOKE to 0 set the size to about 50, or whatever looks best

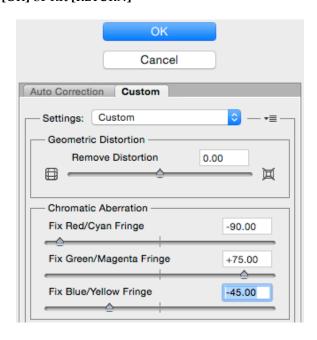


# **CHROMATIC ABERRATION**

The addition of some chromatic aberration can be used to intensify the color appearance of the print.

# Apply Lens Correction/ Chromatic Aberration >

convert the image layer for **SMART FILTERS** add a **LENS CORRECTION** filter to the image layer select the **CUSTOM** tab inside the **CHROMATIC ABERRATION** section pull the **RED** correction to very minus, e.g. ~ -90 pull the **GREEN** correction to very plus, e.g. ~ +75 pull the **BLUE** correction to middle minus, e.g. ~ -45 click **[OK]** or hit **[RETURN]** 



# **SELECTIVE BLUR**

Blurring of photographs at the edges is typically a result of plastic lens. These lenses are not consistent so an irregularly shaped blur area is appropriate. The process employs a sharpened image layer on the bottom and a blurred image layer on top, the center of which is removed with a mask.

Blur a dup	olicate ima	ige layer >	•			
du	plicate	_ the ima	ge layer			[CMD] J
•	<u>renan</u>	ne it	'blur'			
		make sı	ire it has <i>not</i>	been converted in	nto a smart fi	lter layer
<u>sele</u>	ect		om image lay			
<u>cor</u>	<u>ivert</u>			yer to accept SMA		
	<u>use</u>			VERT FOR SMART F	ILTERS	
_	this al		stments later	•		
<u>sha</u>	rpen	_ the ima		FILTER> SHARPE	N> UNSHARP	MASK
	<u>set</u>		Amount = 95			
	<u>set</u>		Radius $= 5$	_		
	<u>set</u>		Threshold = 0			
•	or use Hig	hPassFilte	er sharpen tri	ck		
Reveal the	sharp im	age laver	below >			
sele	ect	the top	image layer,	ʻblur'		
	oly	LENS BL	ur with F	ILTER> BLUR> LEN	IS BLUR	
-11	<u>set</u>		Radius = $\sim 25$			
		or to the	e maximum a	amount of blur de	esired	
ado	<u>d</u>	a <b>MASK</b>	by clic	king on the MASI	tool icon (be	ottom of palette)
	<u>select</u>		PAINT BRUSH,	, large size		hit B
	<u>set</u>	†	to a large size	e (500 px), minim	um hardness	(0)
	<u>reduc</u>	<u>e</u>	OPACITY and	FLOW to 50%		
	set		BLACK as the	foreground color	, white as th	e background color
		<u>hit</u>	<b>D</b> the	n X		
	paint				e mask/ reve	eal sharp layer below)
	<u>touch</u>	<u>up</u>	with <b>white</b> i	f desired		

#### **GRAIN & NOISE**

Both Black & White and Color Film is made of small crystals of silver. Each type of film has a different texture, depending on the speed and type of film used (conventional vs. tabular grain) and how the film is developed. Digital sensors have no such texture. There are seeral ways to add such a texture. The first is to use digital noise as described in the first section below. Another is to shoot at a very high ISO (Canon cameras have more noise than Nikons). Another method, also descried here, is to scan film and make an overlay of that image.

Using Digital Noise >

add	a new <b>SOLID COLOR</b> layer
set color	to Middle grey
rename	the layer 'Noise'
set	the BLENDING MODE to OVERLAY
run	FILTER> NOISE FILTER> ADD NOISE
<u>set</u>	to low ~15 depending on what type of film to be emulated
	(pulled 400 vs. 100 vs. tab, etc.)
use	the uniform / monochromatic settings
<u>reduce</u>	the effect with <b>OPACITY</b> as desired

# Overlay a Scan of Film >

A better way to emulate film grain is to actually use a scan of a real piece of film.

scan	a piece of real film that is a picture of a flat even gray surface.
	this can be done with a range of different film types
	e.g. Color 100 & 400, Tri-x (straight & pushed), TMax, Agfa 100,
	or even Fuji NeoPan 1600 developed in Gamma Plus (if you can find either)!
<u>open</u>	the scanned film image
copy	onto target image
	make sure the pixel dimensions are similar!
<u>adjust</u>	opacity to low