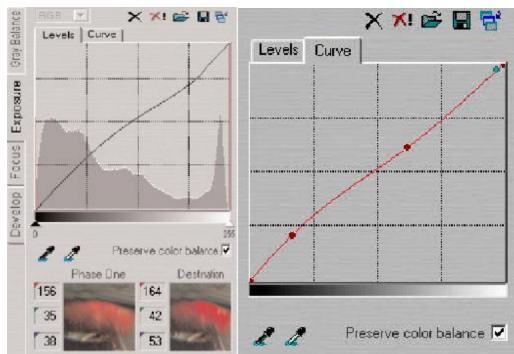
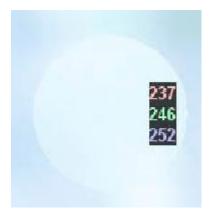
## Canon EOS-10D/Canon i950 Workflow

- 1. Shoot in RAW/sRGB or Adobe RGB (larger gamut) Color Space.
- 2. Download RAW files to hard drive by either using Breeze Downloader (<u>www.breezesys.com</u>) or using windows explorer. The folders classification is as follow:
  - Year-Month-Day/RAW
  - Use BreezeBrowser and the format of the file is Date\_Time\_Sequence\_Zoom\_F-Stop.ext
    - 2003-00-00
       1-RAW
       2-DEVELLOPED
       3-ENHANCED
       4-OUTPUT
       5-ORIGINAL
- 3. Use Capture One DSLR 1.2 (<u>www.plaseone.com</u>) for extract 1-RAW to 2-DEVELOPED
  - 3.1.Set Workflow-> Color Management of Output Destination and Proof Destination to Adobe RGB 1998.
  - 3.2. Enable Monitor Selection to the profile created by adobe gamma.
  - 3.3. Adjust the exposure by making the histogram to have a nice slope/clipping at both ends unless it's a low key or high key picture. And by using curves locate the reference tone by using the <u>loupe</u> and make the reference tone in the middle of the curve.







3.5. Adjust the color cast by using the color wheel.

Color temperature:	5		711	00 °K
Color cast correctio	on:	H	ue	Sat.
0		•	•	
		9	6*	5

- 3.6. Process image with no sharpening applied.
- 3.7. Process Images into Year-Month-Day/2-DEVELOPED (16 bit TIFF)
- 4. If the ISO of shooting is greater than 100, process Image with Neat Image (do not apply sharpening) to remove Noise. If process with neat image, the file will have the \_nx appended at the end, so delete the original file if need space (still in 2-DEVELOPED)
- 5. Apply post correction by running <u>Post Correction</u> (Adobe or sRGB) to <u>Year-Month-Day/3-ENHANCED</u>

EOS-10D MD Custom Workflow	↓ A1-Post Correction ARGB
A1-Post Correction ARGB	Play action "Image Enhancement (Adobe RGB)" of set "EOS-10D MD Custom Wo.
A2-Post Correction sRGB	Save
B1-Do Output Nik Sharpener	A2-Post Correction sRGB
B2-Do Output CSpro	Play action "Image Enhancement sRGB" of set "EOS-10D MD Custom Workflow"
C1-Save Original JP2	Save
Compress File (8 Bit)	
Compress File (16 Bit)	✓ Image Enhancement sRGB
Image Enhancement	Make snapshot
Image Enhancement ARGB Quick	Play action "Auto Levels" of set "Canon Action Set v3"
Image Enhancement sRGB	Play action "Auto Contrast" of set "Canon Action Set v3"
Image Enhancement (Adobe RGB)	Play action "Decrease Highlights" of set "ccCurves"
Remove Yellow Cast	Play action "Increase Midtones" of set "ccCurves"
Image Enhancement + Brightness	Play action "Decrease Shadows" of set "ccCurves"
Printing Warm Color	Make snapshot
Printing (Auto Contrast)	Play action "saturation +1" of set "10D_workflow_tools"
Printing (Auto Levels)	Play action "saturation +1" of set "10D_workflow_tools"
Printing (Shadow Control)	Play action "brightness +1" of set "10D_workflow_tools"
Printing (Exposure Control)	Make snapshot
Gamma Setting (Low)	🔝 Image Enhancement (Adobe RGB)
Gamma Setting (Medium)	Make snapshot
Gamma Setting (High)	Play action "Auto Levels" of set "Canon Action Set v3"
Gamma Setting (Very High)	Play action "Auto Contrast" of set "Canon Action Set v3"
P damina Second (Yer y high)	Play action "Decrease Highlights" of set "ccCurves"
	Play action "Increase Midtones" of set "ccCurves"
	Play action "Decrease Shadows" of set "ccCurves"
	Make snapshot
	Play action "saturation -1" of set "10D_workflow_tools"
	Play action "Cooler Color" of set "Canon Action Set v3"
	Play action "saturation +1" of set "10D_workflow_tools"
	Play action "Warmer Color" of set "Canon Action Set v3"
	Play action "brightness +1" of set "10D_workflow_tools"

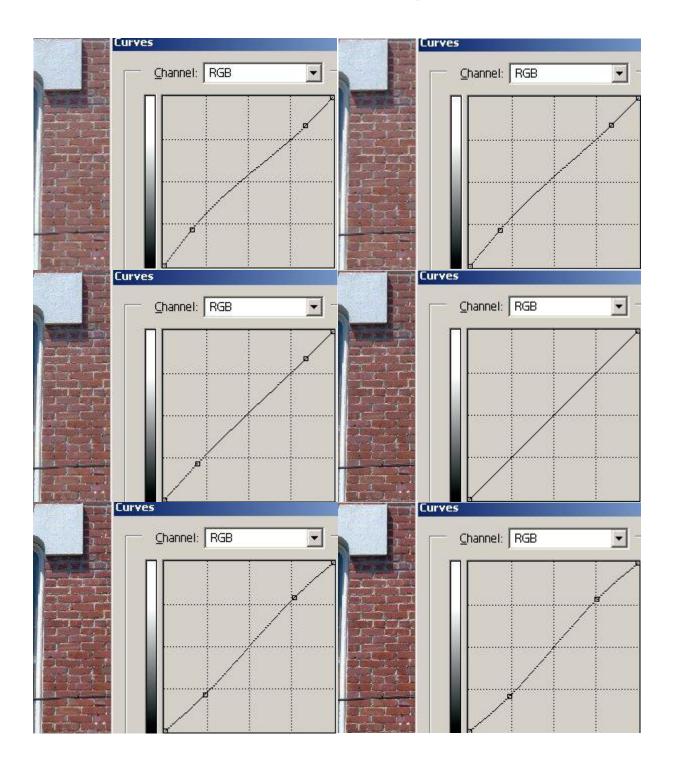
- Make snapshot
- 6. If the picture still have problem (whatever one don't like) then apply or use any others action to correct picture Manually (still in 3-ENHANCED). If there is a color cast use color mechanics to correct it
  - Color and Level/Curve Enhance

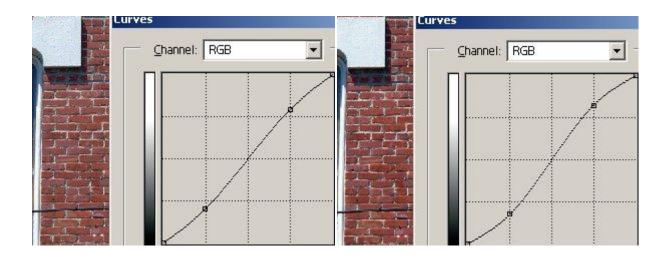
🛪 📄 Picture Enhancer v3	🗢 🛄 ccCurves
Colour and Levels Enhance	Increase Highlights
Red Shift Remover v1	Decrease Highlights
Red Shift Remover v2	Decrease Midtones
Red Shift v3	Increase Midtones
Yellow Shift Remover	Increase Shadows
Blue Shift Remover	Decrease Shadows

## or load curve preset as follow

m2, m1 (m stands for minus contrast and the number for strength) 00 no change  $% \left( {{\rm{T}}_{\rm{T}}} \right) = 0$ 

p1, p2, p3, p4 (p stands for plus contrast and the number for strength)





Flatten Highlights •

▽		PJ Sharpen Image
	Þ	Thanks
	Þ	Play me Read Me
	Þ	Remove color cast
	Þ	Detail Enhancement
	Þ	Dampen Highlites
	Þ	Highlite 2
	Þ	Shadow Enhance
	Þ	De Chroma noise
	Þ	Sharpen Edges 600dpi
	Þ	Sharpen Edges 1200 dpi
	Þ	Edges 600 dpi
	Þ	Edges 1200 dpi
	Þ	Saturate +4
	Þ	Saturate +6
	Þ	Saturate +10
	Þ	Set Auto Color

- EV Correction, Highlight, Shadow, Warmer color of Canon Action v3 Saturation from D10 workflow tools •
- •

▼ 🗋	] 10D_workflow_tools
⊳	information (RUN ME)
⊳	do normal sharpening + saturation
⊳	do 1× noisereduction + sharpening + saturation
⊳	do 2× noisereduction + sharpening + saturation
⊳	
⊳	ACTIONS BELOW ARE
⊳	FOR ADJUSTING THE
⊳	FINAL IMAGE
⊳	///////////////////////////////////////
⊳	saturation +5
⊳	saturation +1
⊳	saturation -1
⊳	saturation +5
⊳	saturation -5
⊳	brightness +1
⊳	brightness -1
⊳	brightness +3
⊳	brightness -3
⊳	booster curve
⊳	booster curve 2
⊳	result to grayscale
⊳	.Run HQ noise blur 1×
⊳	.Run HQ noise blur 2×
⊳	to web
⊳	to web 1/4 size
⊳	to web 1/6 size
⊳	to web 1/8 size
⊳	///////////////////////////////////////
⊳	ACTIONS BELOW ARE FOR
⊳	INTERNAL USE ONLY

plain sharpen
 plain sharpen 2

👂 selective noise blur HQ

before
 after

 $\checkmark$ 

	Canon Action Set v3
Þ	-1/3 EV
Þ	+ 1/3 EV
Þ	+ 2/3 EV
Þ	+1 EV
Þ	Boost Shadows
Þ	Boost Highlights
Þ	Increase Contrast (Normal)
Þ	Increase Contrast (High)
Þ	Auto Contrast
Þ	Auto Levels
Þ	Warmer Color
Þ	Cooler Color
Þ	Reduce Blue (Shade)
Þ	Reduce Green (Flourescent)
Þ	Reduce Custom Color
Þ	Increase Saturation
Þ	Color to BW (Normal)
Þ	Color to BW (High Contrast)
Þ	Convert BW to Sepia
Þ	Convert BW to Cerulean
Þ	Rotate 90 CCW
Þ	Rotate 90 CW
Þ	Sharpen I (Low)
Þ	Sharpen II (High)
Þ	Sharpen III (Web/Slideshow)
Þ	Soft Focus (Light)
Þ	Soft Focus II (Medium)
Þ	Soft Focus III (Heavy Glamour)
Þ	Vignette 1 D60 HORZ
Þ	Vignette 3 D60 HORZ
Þ	Resize 3MP File to 6MP (HORZ)

7. Convert from to 8 Bit and Sharpening (Canon 10CSpro or Nik Sharpener Pro) from Year-Month-Day/3-ENHANCED and save as JPEG in Year-Month-Day/4-OUTPUT (JPEG Quality 12)

▼ 🗋	Canon 10D CSpro		
Þ	IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	Sharpener Pro!	iki
Þ	Copyright @ Fred Miranda (read)	Color Laser/Autoscan	2 🔸 🕳
Þ	(CS intensities – Play me)		
Þ			
Þ	LOW	Image Width 10.2 inch	
Þ	MEDIUM	Image Height 6.8 inch	
Þ	HIGH	Printer 400 dpi	
Þ	VERY HIGH	Printer Quality average	
Þ		Eye Distance Book	10.854
Þ			
Þ	(CS Tweak - Play me)	Personal Profile John NC M	-
Þ	LOW with tweak	Save Load Help www. Cancel C	K
Þ	MEDIUM with tweak		'n
Þ	HIGH with tweak	Real Resolution Index: 139, sharpening radius = 0.121 = 1.4466 pixels Image will be printed at 116% of optimal size - good detail	
⊳	VERY HIGH with tweak	Size = 3076x2052 pixels, 302.34 dpi, color mode = RGB, Acceleration: On No Warnings.	

8. Compress from Year-Month-Day/3-ENHANCED into Year-Month-Day/5-ORIGINAL as LuraWave.JP2 (8bit or 16 bit)

Save as LuraWave.jp2	
Compression Options	
	/
C Lossy	algoision
🕞 Compression Bate 🛛 10 🚊 to 1	LuraTech
🕂 🔿 File Size 🛛 1893585 🚆 Bytes	
C Image Quality 80 🚊	
Preview Default OK	<u>Cancel</u>

- 9. Delete Year-Month-Day/2-DEVELOPED and Year-Month-Day/3-ENHANCED Folder
- 10. Archive to CDROM/DVD
- 11. Create catalog with Adobe Photoshop Album (Optional)
- 12. Printing (either from JPEG ot PhotoJazz and sharpen it)
  - 12.1. Driver Setup
    - 12.1.1. Start-> Printers and Faxes -> Canon i950
    - 12.1.2. Printer-> Properties
    - 12.1.3. Select color management tab, select manual option and add Adobe RGB (default), Canon ICC, and SRGB

## 12.2. Photoshop

12.2.1. Page Setup with appropriate media type. Printer Setup: select High Quality Print, Color Adjustment to Manual, Preview before print, and Border Print

Press the "**Print**" (top right hand corner of Print with Preview dialog) button. The following screen-capture shows the **Photoshop 7 print** dialog.

Pr	int					? ×
	Printer					
	Name:	Canon S9000		F	Propertie	s
	Status:	Ready				
	Туре:	Canon S9000				
	Where:	FILE:				
	Comment:				Print to fi	le
	- Print range			Copies-		
	• Al			Number o	f copies: 1	÷
	C Pages	from:	to:			
	C Select	ion				Collate
					OK Ca	ancel

Now press the **Properties** button. Once the Printer driver **Main** window appears choose the type of **Media** (1) that will be used. Chose the highest **Print Quality** (2) option compatible with the printer/media combination that you require. I recommend **High** for photographic type images. **High** quality sacrifices speed, but is worth it. Assuming that you are printing colour images the last setting to choose in this dialog is Colour Adjustment - choose either the **Auto** or **Manual** radio button (3).



The Auto choice is the simplest and probably safest for Photoshop users as it avoids us applying additional and completely unnecessary corrections to our images. If the print is too bright, blue, yellow, whatever - fix it in Photoshop NOT in the Manual Colour Adjustment dialog

If you do chose the Manual radio button you should now have access to the Manual Colour Adjustment dialog. There are a number of options available and in the screenshot shown below I have chosen Photo or Auto (4) as the Print Type. You should read the Help file for further information on what each option does to the image.

Manual Colour Adjustme	nt		<u>?×</u>
	Colour Balance		
-690	Cyan:	0	
	Magenta:	0	
	Yellow:	0	
	Black:	0	
ABC123	Intensity:	0	
	🔲 Enable ICM		
	Print Type:	4	Photo
	Brightness:		Normal
	ОК С	anc	cel Defaults Help

12.2.2. "Same as source" - Photoshop simply passes the image/document straight to the printer driver without making any alterations. Unless you also have chosen Proof: Proof Setup option as the Source Space. There will be no ICC profile embedded in the image and so this option is effectively telling Photoshop to NOT colour manage the process of printing the image/document. Use Enabled ICC in the manual Color Adjustment, this give a overexpose photo with Canon Photo Grossy Plus Paper (beach), so reduce the gamma before printing.

urt	Position  Position  Top: 288  Cm  Cancel  Done  Page Setup  Scaled Print Size  Scale: 100%  Scale to Fit Media  Height: 1524  Width: 22.86  Cm  Page Setup  Page Setup Page S
Show More Options Color Management	
Source Space: Document: © Document: sRGB IEC61966-2.1	
Proof: C Proof Setup: U.S. Web Coated (St	WOP) v2
Print Space: Profile: Same As Source	
Intent: Relative Colorimetric	Y

12.2.3. "Printer Color Management": - choosing this option informs Photoshop that the image/document should be sent to printer driver with the profile listed against "Source Space:" embedded within it. By embedding the profile Photoshop is providing the printer driver with all the necessary information required to ensure accurate colour rendering. The image/document colour management is handled on-the-fly and automatically by Photoshop and/or the printer driver. DO NOT Enabled ICC in the manual Color Adjustment, this give a overexpose photo with Canon Photo Grossy Plus Paper (beach), so reduce the gamma before printing.

Print		×
	Position Top: 2.88 cm Left: 3.42 cm Conter Image Scaled Print Size Scale: 100% Scale to Fit Media Height: 15.24 cm Width: 22.86 cm Fishow Bounding Box Print Selected Area	Print Cancel Done Page Setup
Show More Options  Color Management Source Space: Document: Proof: Proof: Proof Setup: U.S. Web Coated (SW Print Space: Profile: Profile: Profile: Profile: Color Management Intent: Relative Colorimetric Use Black Point Compensation	YOP) v2	•

12.2.4. "ICC Profile" (figure 6): - this last option is where we choose a specific profile that is compatible with our printer. Notice that once an ICC profile is selected the "Intent" and "Use Black Point Compensation" (BPC) checkboxes are activated. Generally you'll want to use Perceptual and have BPC checked. <u>DO NOT Enabled ICC in the manual Color</u> <u>Adjustment, this give a underexpose photo with Canon Photo Grossy Plus Paper, so</u> add gamma before printing. If Using Canon Photo Grossy Pro, the exposure is fine.

ιt in the second s		
		Position Top: 2.88 cm Left: 3.42 cm Cancel Left: 3.42 cm Cancel Done Page Setup Scaled Print Size Scale: 100% Scale to Fit Media Height: 15.24 cm Width: 22.86 cm Vidth: 22.86 cm Vidth: 22.86 cm Vidth: Scale to Area
Show More Options Color Management Source Space: Document: @ Document: Proof: C Proof Setup Data Security		
Print Space: Profile: Epson 1270 Pre Intent: Perceptual	mium Glossy Printer	Profile
	int Compensation	

12.3. Photoshop Album:

- 12.3.1. Same Printer Setup as 5.2.1
- 12.3.2. Print with same setting as "Same as Source" 5.2.2

## 12.4. QImage:

- 12.4.1. Same Printer Setup as 5.2.1
- 12.4.2. Camera ICC: Adobe RBG
- 12.4.3. Monitor ICC: Profile created by adobe gamma
- 12.4.4. Printer ICC: Canon ICC profile (Windows/system32/spool/drivers/colors)
- 12.4.5. Before Printing Filter Image with: <u>Auto Exposure</u> and <u>Brighten</u>
- 12.4.6. Print with same setting as 5.2.4