



香港觀鳥會

講座題目： 經驗分享 — 由按制一刻開始
(數位相片處理流程)

日期： 七月十三日

時間： 下午七時正至八時半

地點： 九龍柯士甸道童軍徑童軍中心**1113**室

Digital Image Processing Workflow

Reference

Website:

An Image Processing Workflow (Step-by-Step Processing of Photographs using Photoshop) - *by Fred Scholtz*

<http://www.luminous-landscape.com/tutorials/workflow1.shtml>

Books

- **Photoshop CS artistry: mastering the digital image - HAYNES, Barry**
- **Photoshop CS down & dirty tricks - KELBY, Scott**
- **Adobe Photoshop CS for Photographers - Martin Evening**

Workflow

(by Fred Scholtz)

1. Acquisition
2. Crop and Clean
3. Tonal Adjustment / White Balance
4. Expand Dynamic Range
5. Color Balance
6. Adjust Contrast and Saturation
7. Edge Sharpen and Cleanup
8. Save and Convert
9. Selective Contrast and Exposure Compensation
10. Fine Tuning
11. Perspective Correction
12. Re-composition
13. Crop and Resample
14. Sharpening and Cleanup
15. Proof

Simplified Workflow **(for web display)**

1. Acquisition
2. Crop and Cleanup
3. Image Adjustment (White Balance, Color Balance, Contrast Saturation)
4. Resample (resize)
5. Sharpening
6. Save and Convert

Acquisition

RAW > 16-bit Tiff (Photoshop CS)

RAW > 8-bit Tiff (Photoshop LE)

RAW Converters

- Canon Digital Photo Professional
- Canon EOS Viewer Utility
- Adobe Camera Raw (Photoshop)
- Bibble <http://www.bibblelabs.com/>
- BreezeBrowser <http://www.breezesys.com/BreezeBrowser/index.htm>
- PhaseOne C1 Pro <http://www.phaseone.com/>

Color Space – sRGB / Adobe RGB

Working Space of software – sRGB / Adobe RGB

*Web tutorial on Digital Photo Professional (DPP) by Eddie Tapp:
<http://www.photoworkshop.com/canon/dpp/index.html>*

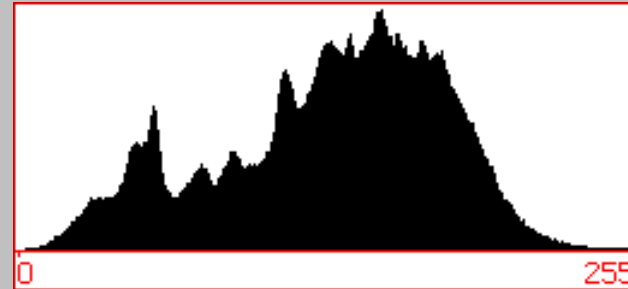
Crop and Cleanup

- **Aspect ratio – 3:2, 4:3, portrait, landscape**
- **Reduce visible noise**
 - Neat Image <http://www.neatimage.com/index.html>
 - FM ISOx Pro Plugin <http://www.fredmiranda.com/software/>



Image Adjustment

Histogram



Image

- Levels
- Curves
- Color Balance
- Hue/Saturation
- Shadow/Highlight

Resample (resize)

For Web display: resolution < 800x600

SI Pro v1.1 - Stair Interpolation Plugin

<http://www.fredmiranda.com/software/>

Sharpening

Photoshop: Unsharp Mask (USM)

- Amount: 200~300%
- Radius: 0.3 pixels
- Threshold: 0 pixels

Other sharpening software

- Sharpener Pro <http://www.nikmultimedia.com/sharpenerpro/usa/entry.php>
- Qimage <http://www.ddisoftware.com/qimage/>
- Intellisharpen II <http://www.fredmiranda.com/software/>
- dSLR Fractal Sharpening
http://actions.home.att.net/dSLR_Fractal_Sharpener.html
- FocalBlade <http://www.thepluginsite.com/products/photowiz/focalblade/>

Save and Convert

- Save the Tiff file first before converting for future use
- Color Space – Adobe RGB > sRGB
- 16-bit > 8-bit
- Save as JPG for Screen/Web display
at quality level moderate/high; file size < 100k
- Post the stunning photos onto HKBWS BBS <http://www.hkbws.org.hk>

Other Useful Reference

Monitor calibration and gamma by Norman Koren

<http://www.normankoren.com/makingfineprints1A.html#QuickGamma>

Calibration tools:-

- Adobe Gamma Loader
- MonacoEZColor <http://www.xritephoto.com/product/ezcolor/>
- ColorVision (OptiCAL) <https://secure.colorvision.com/index.html>

Terminology & useful tips

- 123di http://www.123di.com/123di_sample.htm
- Enjoy Digital SLR Camera <http://www.canon.co.jp/Imaging/enjoydslr/index.html>