

Do Steps Correctly

See Topics Covered in next page

Use Correct Methods

Stop losing visual data by using Brightness/Contrast
Don't cut or copy and paste from other applications into Photoshop

Use colors that reproduce in prestigious journals

Learn to use Image Size to maximize resolution

Print images that match what is seen on the monitor

Acquire images so that detail and colors are accurate

Create automated ways to measure from entire directories of images

Discover hidden functions in Photoshop vital to scientific imaging

Find out why uneven illumination correction is the key to working with images in science

Solve resolution problems when publishing graphs and tables

Learn why Open command isn't used for images in Illustrator

Become a resource for others in your organization

Photoshop Ethics & Set Up

Know what is expected regarding visual data

Set up Preferences and Color Space

Open important dialogue boxes

Learn fundamental controls & warning symbols

Understand CCD resolution and bit depth

Learn how to white balance, bin, make flatfield (shading) correction

Set gain, black level & gamma

Maintain color/contrast consistency over time

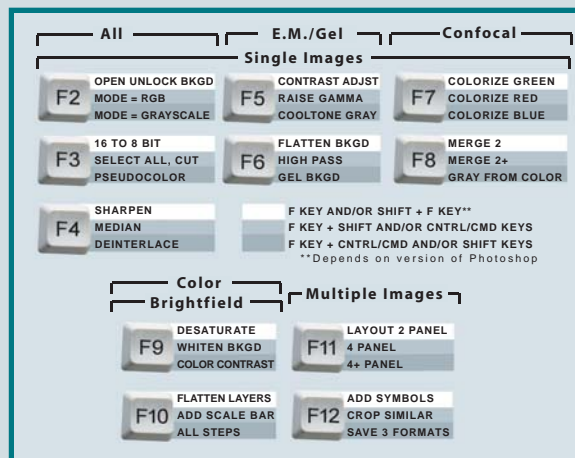
Use reference images to maintain consistency

Make better decisions about images destined for various outputs: print, web, video, electronic documents and 3D visualization

Automated Actions and Scripts

Provided at Seminar

1-button actions for most steps using "F" keys*



*Only the "All Files" button actions are shown; also included: Confocal, EM, Quantization, Brightfield, Gels/Blots, and 3D/Animation button actions.

Actions	
preferences-disable inquiry	Duplicate Image
Mode RGB	Arbitrary Rotation
Rotate 180	Rotate 90 CW
Rotate 90 CCW	Flip Vertical
Flip Horizontal	Mode Grayscale/16 to 8-bit
Sharpen lowest	Sharpen_low
Sharpen medium	Sharpen_high
Sharpen highest	Dust 1
Dust 2	Contrast/color-autobalance 1
Contrast/color-autobalance...	Contrast/color-autobalance...
Contrast-manual adjust	Contrast-adjust curves
Info Window	Color-variations
Color-hue & saturation	Color Range
Blue-correct it	Fluorescence-brighter1

Full set of click button steps you can load in Photoshop: See following pages for actions included

Benefits for You and Your Employer

Ethics: Be sure everyone, regardless of background, is on the same page regarding ethics.

Increase Revenue: Validate data with visual proof for FDA

Increase Efficiency: Cut Photoshop time by 2/3 for reports and grant applications, increase your own productivity

Increase Ability to Unmistakably Report Visual Proof:

Publish in high profile journals
Improve perception of your workgroup/lab: Image quality

FAQ's

Which versions of Photoshop?

Photoshop 6x - 10x (CS3) on PC and Mac.

Is the 1-day Seminar for beginners?

No. Some previous experience expected.

Who should come to it?

Researchers, engineers, medical-related, staff, faculty: anyone wanting to improve chances of FDA approval, grant awards, publication, clarity in image interpretation and improved job potential.

How do I make a reservation?

Go to www.quickphotoshop.com & pay by credit card online.

You can also pay by check. Please make payable to Sedgewick Initiatives and mail to:

Jerry Sedgewick
965 Cromwell Ave.
Saint Paul, MN 55114

(For your accountant: EIN: 20-3338665, non-minority business. FAX: 651-645-7320)

What is the policy for cancelling?

Email Jerry at sedge@usfamily.net 24 hours in advance to get a full refund.

Can I check in at the door the day of the seminar?

Yes, but all seats may be taken.

Can someone take my place if I can't make it?

Yes. Please let Jerry know beforehand: sedge@usfamily.net.

Are you including Your Book?

No. Only for the 4-Day workshop.

Will you be back at our location?

Depends on the location: check quickphotoshop.com for locations.

Price

Only \$100.00

Corporate & University

INCLUDES: CD with Automated Actions (to Include with your version of Photoshop)
Instruction Guides
Reference Flipchart

1-Day Seminar Topics

ETHICS

Following Author's Guidelines
Altering Representative Images
Limits to altering electrophoretic samples, etc.
Post-processing images for quantification and 3D visualization

ACQUISITION & SOFTWARE INPUT

Acquiring from microscopes on digital cameras
Acquiring from confocal systems
Environmental imaging with a digital camera
Getting high resolution images from PowerPoint, etc.
Getting high resolutions from tables & graphs; retaining formatting

ALIGNING AND CONFORMING IMAGES TO OUTPUTS

Creating a single target resolution and dimensions
Standard contrast and brightness adjustments

OPENING IMAGES

Photoshop setup procedures: Color Settings and palettes
File open procedures to insure retention of original file
Opening problematic images
Creating layered Photoshop files from TIFF (and other formatted) stacks
Opening multiple images to blend (project) to a single image
Stitching together (montaging) several smaller fields to make a larger image
Adobe Camera Raw and High Dynamic Range images

TYPICAL AND NECESSARY ALTERATIONS

Correcting uneven illumination
Cropping techniques
Dealing with Problem Images
Reducing Noise in Images

COLOR CORRECTIONS AND FINAL STEPS

Brightfield, Color
Making precise color corrections
White or gray eyedropper method
Automated and manual color matching to a reference image
Color correcting parts of an image
Reducing Saturation, change hue, and make image CMYK ready
Color noise reduction
Single Color, Darkfield Images
Matching Brightness from different channels
Single Color image to grayscale
Colorize grayscale images
Change existing colors to reproducible colors
Make images CMYK ready

Pseudocoloring and Colorizing

Pseudocoloring along a color table
Posterizing
Sharpening Methods: unsharp mask and high pass filter methods
Correcting gamma
Making Scale Bars

MAKING FIGURES/PLATES & CONFORMING TO OUTPUTS

Retain resolution methods
Publication resolution methods
Lining up lanes in electrophoretic samples
Matching backgrounds of images
Adding and augmenting lettering
Aligning text, lettering at angles, tick marks and brackets
Including Symbols, Shapes and Arrows
Working with Graphs
Making image insets
Resampling for Outputs

OUTPUTS

Inkjet Printing for posters, examples and proofs
LaserJet printing & drawbacks
Creating dynamic laptop projection images
Going to Acrobat and electronic documents, including Web

SEGMENTING (SEPARATING FEATURES FROM BACKGROUND) AND QUANTIFICATION

Computer-aided versus Stereology measurements
Computer-aided procedure for segmenting images
Checking for necessary corrections to image
Group together or average features
Color Images: finding the best grayscale channel
Color Images: Using color to segment
Differentiating edges of feature from background
Applying a High Pass filter
Binarizing with Threshold and elimination or inclusion of features
Reference area measurement
Matching histograms from several related images
Creating an automated action to apply to entire directories of images
Manual Segmentation by using grids and fixed selections
Using stereology probes in Photoshop

MEASURING IMAGES

Measuring in Photoshop CS3 Extended or Image J
Measuring Colocalization/Coexistence