

# "Photography for the Cosmetic Dentist" by Greg Lutke DDS



**The Advanced uses of Digital Photography**  
 Layered images Monitor Calibration Cosmetic Imaging Printing with ICC profiles PowerPoint  
 for Speakers Digital Treatment Planning Digital Video Glamour Shots

**ADOBE PHOTOSHOP**  
 if you MASTER the BASICS  
 YOU ARE ADVANCED!

for Esthetic Dentists

Interdisciplinary treatment planning

ACCURATE AND ETHICAL  
**COSMETIC IMAGING**  
**COSMETIC IMAGING**

Narrow Buccal corridor

Centrals are "real" mirror images

1. **Setup your camera** for Dental Photography
2. Understand your dental **Flash**, in detail. Both Manual & TTL
3. Master **Exposure Control**. Full face and Macro (Up close)
4. Understand picture **Software** and if/why it should be used

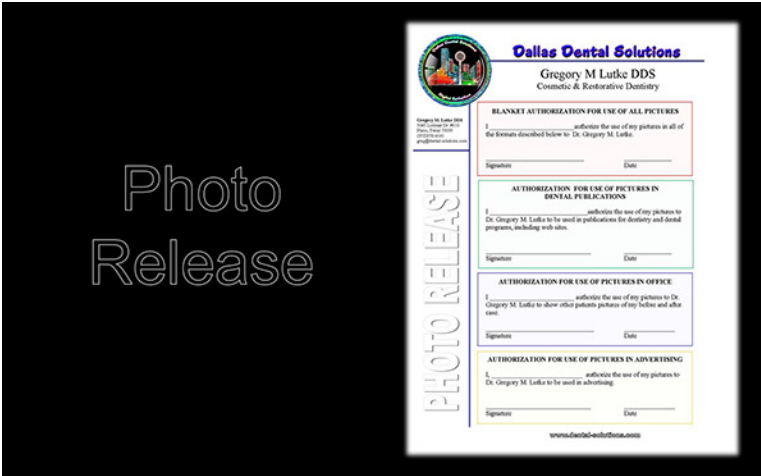
Adobe Camera Raw

Slideshow

ADOBE PHOTOSHOP

Adobe Photoshop CS6

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**Canon**

Rebel T5i body  
70D body  
7D body  
5D MK III body

OR

Canon 100mm Macro (\$600)  
IS Version (\$1050) Image Stabilized

Metz Wireless Photomed (\$460)  
Canon MR-14 EX Ring flash (\$500)  
Canon MT-24EX Twin Light flash (\$830)

**Nikon**

D3300 body  
D5300 body  
D610 body  
D800E body

Nikkor 105mm VR lens (\$800)  
VR = Vibration Reduction

Metz Wireless Photomed (\$460)  
Sigma EM-140 DG (\$380) (simple ring flash)  
Nikon R1C1 Wireless Flash (4 total) \$1040

Windows vs. Mac OS X Mavericks

More alike than different 2014

OSX Mountain Lion

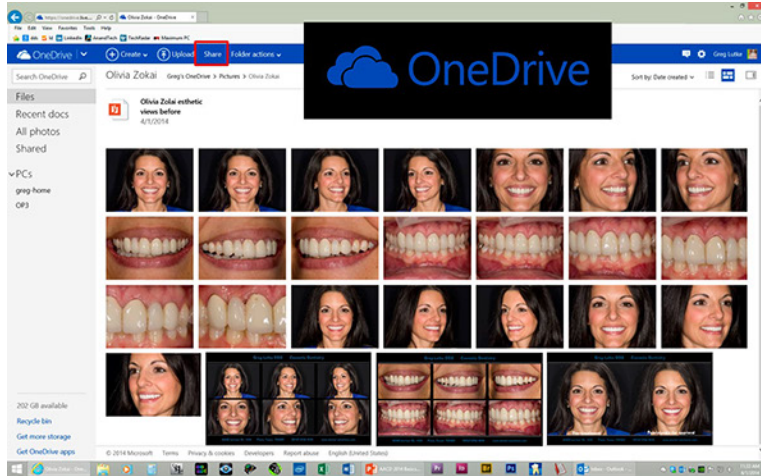
Windows 7/8

**Apple iMac**  
OSX Mavericks

**Computer Tablets**

Microsoft Surface Pro  
Windows 8 (full desktop version)  
Adobe Photoshop CS6  
Dental Practice Management

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## Computer (PC or Mac)

1. **Intel Core i7 or i5 Processor** (4th Generation - Haswell)
2. **64 bit Operating System** (Windows 7/8 or Mac OSX)
3. **8 GB of RAM** (16 GB is better)
4. **2 TB 7200 RPM Hard Drive** (SSD -Solid State Disk- is best!)
5. **24 inch Digital Flat Panel monitor** (1920 x 1200 resolution)
6. **Discrete Video Card** (not on-board video)
7. **DVI, DisplayPort, or HDMI connection to monitor** (not VGA)

**DVI** (good)    **DisplayPort** (great!)    **HDMI** (good)    **VGA** (bad)

## Monitors for Dental Professionals

Monitor Type **IPS**  
In Plane Switching

- 1) Great Color
- 2) Wide viewing angles
- 3) for Photographers

Recommendations

- 24 inch (personal) 1920 x 1200 resolution
- 30 inch (consult) 2560 x 1600 resolution
- Wide Gamut Adobe RGB

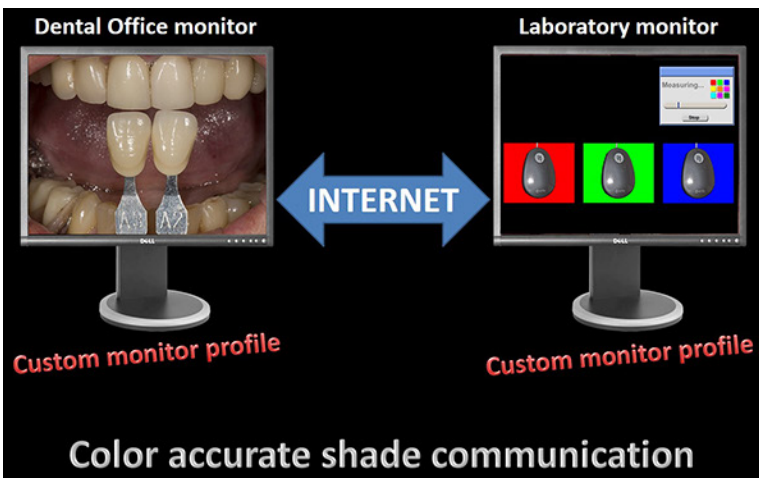
Avoid cheaper TN monitors for Cosmetic Dentistry or any Photography

**4K Panels (Ultra HD) are King!**  
3849 x 2160 resolution

HIGH RESOLUTION	LOW RESOLUTION
<p><b>Cameras</b></p> <p>Digital SLR cameras are all <b>18 - 36 MP</b></p>	<p><b>Monitors</b></p> <p>1920 x 1200 2.3 MP    24 inches</p> <p>2560 x 1600 4.1 MP    30 inches</p> <p>3849 x 2160 8.3 MP    4K (Ultra HD) 28 or 32 inches</p>

## Calibrate & Profile Monitor

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**HIGH RESOLUTION OUTPUT = PRINTERS**

Dye Ink

Pigment Ink

Epson 1430 (\$260)

Epson R3000 (\$650)

Epson 3880 (\$1100)



Camera Mode = Aperture Priority

Nikon

Canon

Depth of field

f/ 5

f/ 10

f/ 22

f/ 32

Camera Setup for JPG

5 Items

SHOOTING MENU

- Image Quality: JPG \ Fine
- Image Size: Large
- White Balance: PRE \ Custom
- ISO: 100
- Color Space: Adobe RGB

Color Space

The lowest setting the you must capture a same as the original custom White Balance

200-1000

White Balance Card

This is necessary for accurate dental color:

1. Skin
2. Teeth
3. Shade tabs

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### 3 Photography Workflows in Dentistry

Results in 3 Image Qualities

1

Capture=JPG  
No software edits  
Direct view or Print

2

Capture=JPG  
Image Corrections  
Photoshop

3

Capture=RAW  
Image Corrections  
Adobe Camera Raw

### 65 "Custom" White Balance

9000°K  
6500°K  
4000°K

Only 'lint' free zone

White Balance Card

Automatically applied, **by your camera**, to all future JPG's

### Need perfect color?

Custom Camera Profile

1. ColorChecker Card
2. Xrite Software (free)
3. 5 minutes
4. for RAW files in Adobe Camera Raw or Adobe Lightroom

### Exposure Control

✓ **TTL** = Through The Lens  
Automatic exposure control  
The **Flash** is turned up or down –as needed

Half for the **Graphic artist**  
Adobe **Photoshop**  
Layers & Text

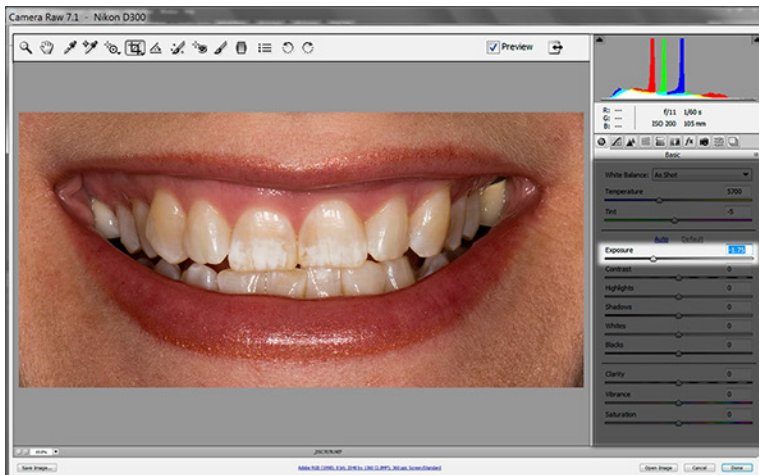
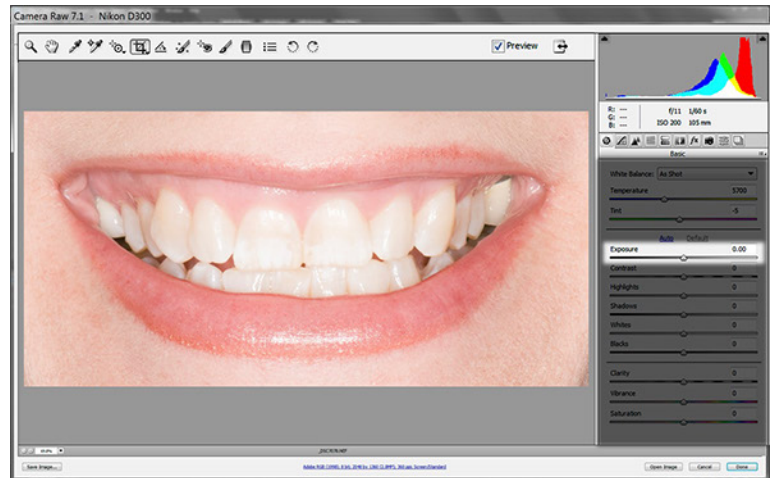
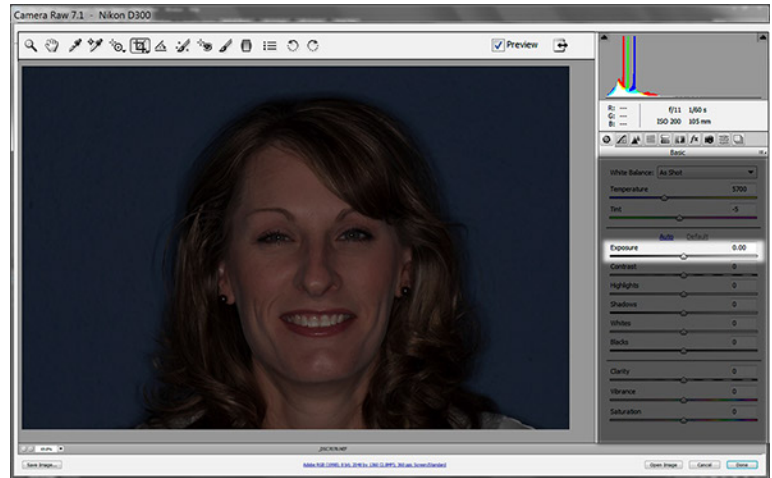
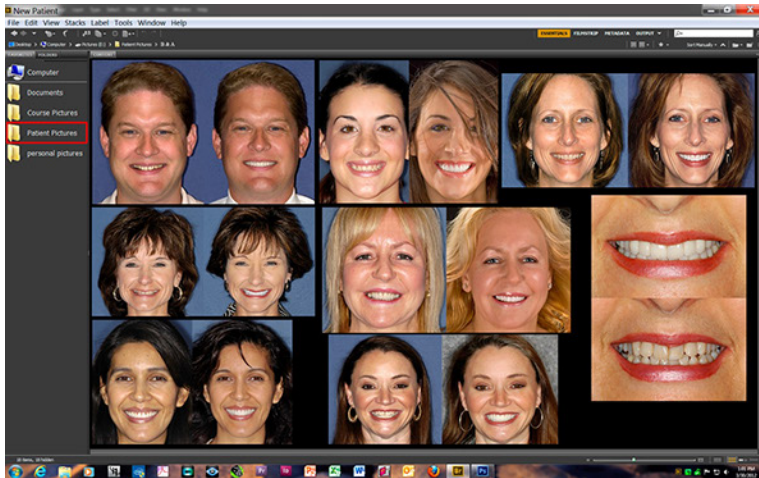
"Cosmetic Imaging" with Photoshop

Special 'Dental' images

Half for the **Pure Photographer**  
Adobe **Bridge**  
WITH ADOBE CAMERA RAW

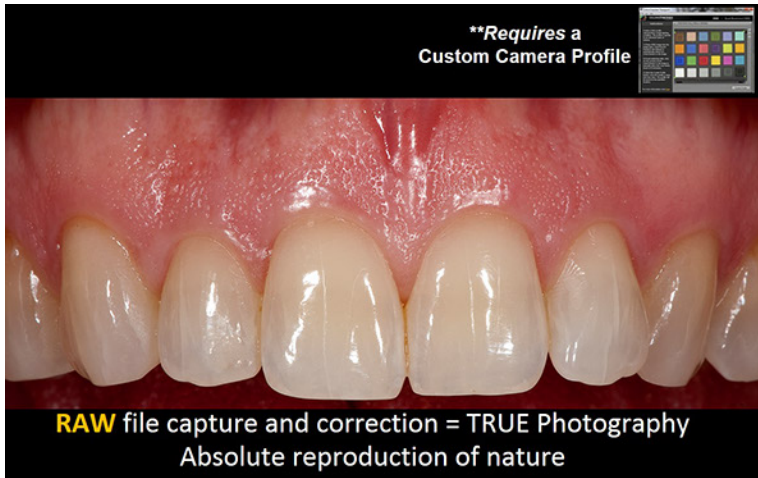
Straight Photography

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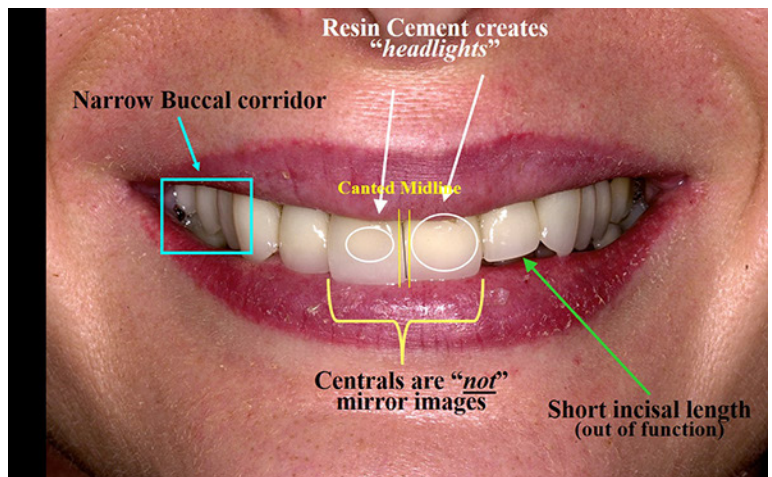
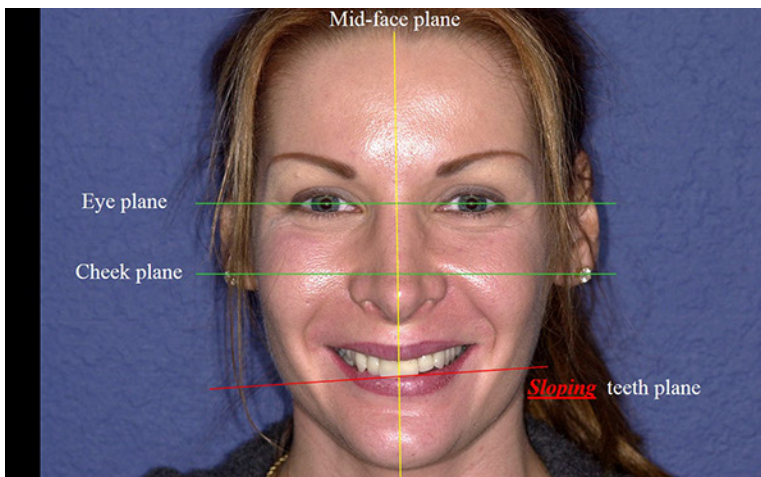




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Add layers in Photoshop – Clear communication

## Custom Dental Lab

Functional & Esthetic Dentistry

Please use computer for delivery date

Gregory M. Lutke DDS Delivery Date: **March 17**

Michael Emma Age: **41**

Specialty Restorations  
Please add design number on tooth chart.  
1. Porcelain  
2. Ceramic Veneers or Temp  
3. Denture  
4. Implant  
5. Provisional Crown (See note to dentist)  
6. Provisional Bridge (See note to dentist)

Cosmetic Waxup (20 units)  
Please waxup 4-13, 20-29  
Included:  
1) Facebook mounted models  
2) Photos will be approved imaging

Porcelain-to-Metal  
Allergy:  High Nickel (gold)  High Nickel (silver)  Cobalt  Titanium (does not have a nickel content)  
Restorations: Put design # on each chart. Add "M" for Porcelain Butt Shoulder Margin.

Porcelain Design  
Please bracket bridges & systems on chart

Bridge Abutment  
 None  Metal  Porcelain  Resin

Wax opposing teeth be submitted?  Yes  No  
Do you want a waxup tryout?  Yes  No  
Will you be using a waxup?  
 Yes  No  I need

Special Conditions  
 Make Provisional Copying of waxup  
 Out of production 2 mos.  
 Out of production 3 mos.

For full use only:  Disk  Facebook

How are you receiving the following?  Thru Mail  In Person  
 Shipping  Pickup

14,600  
March 2nd & 3rd

Flatbed scanner

Mike Emma Digital Art of Cosmetic Smile Design Actual results may differ



Patient Presentations

Microsoft PowerPoint

COSMETIC IMAGING

SYNERGY

Photoshop Layers

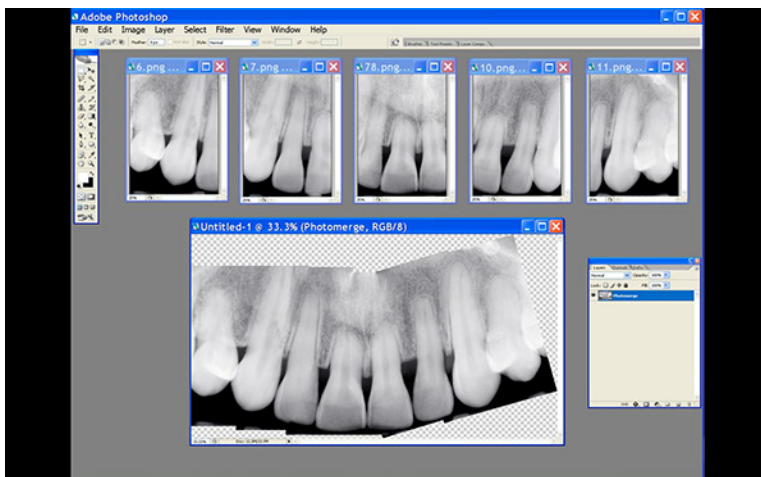
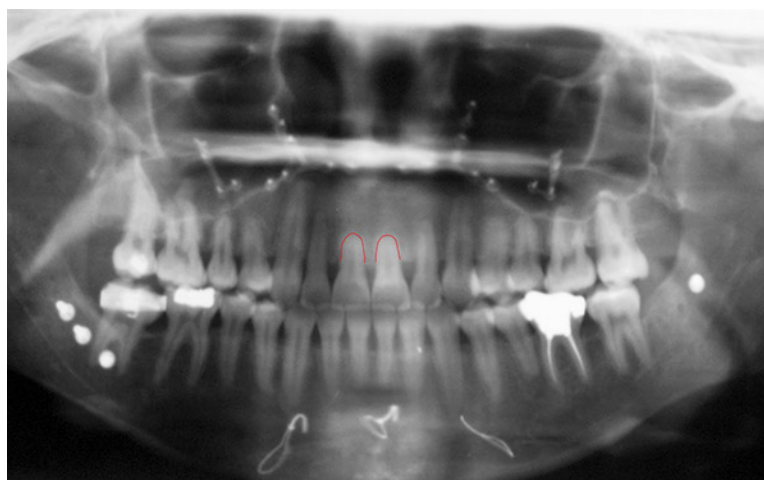
x-rays // Dental Objects

Patient Consultations

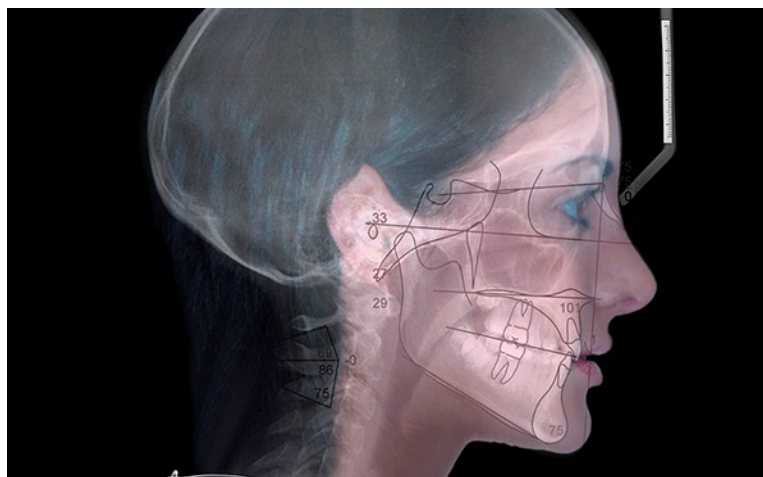
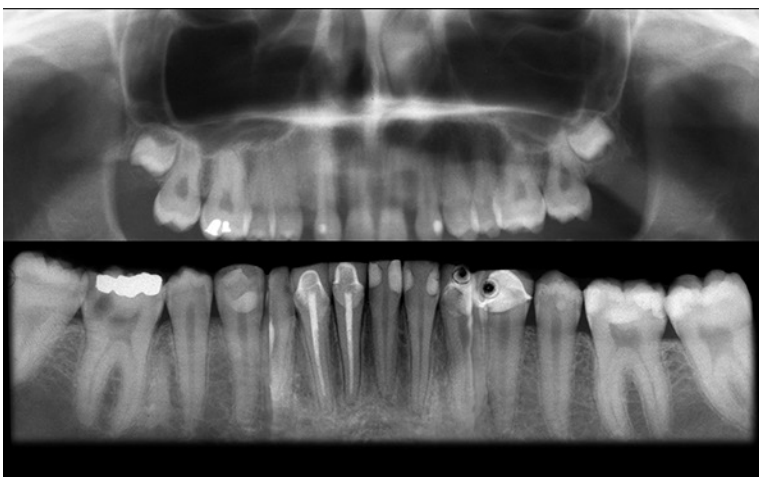
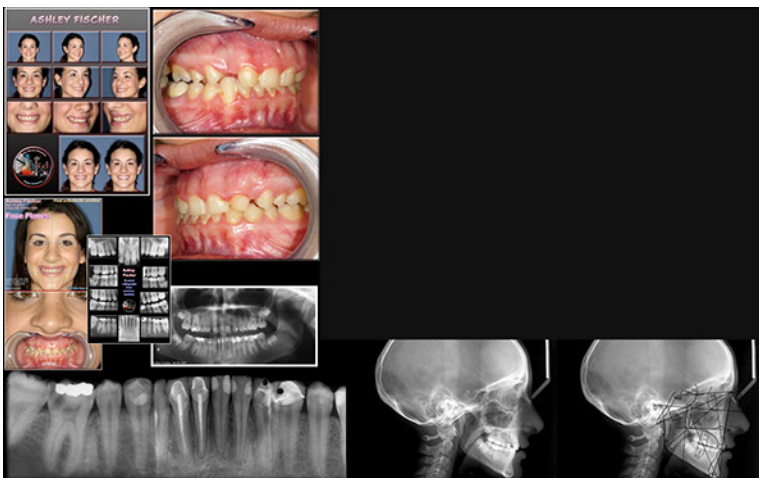
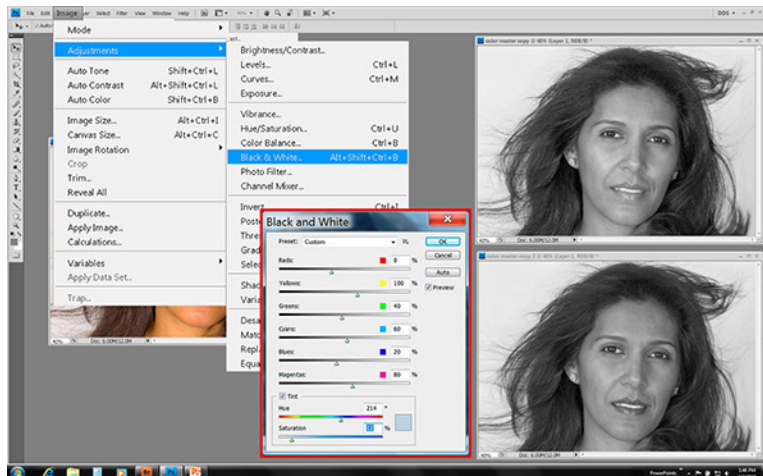
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## The 5 Dimensions of Image Quality

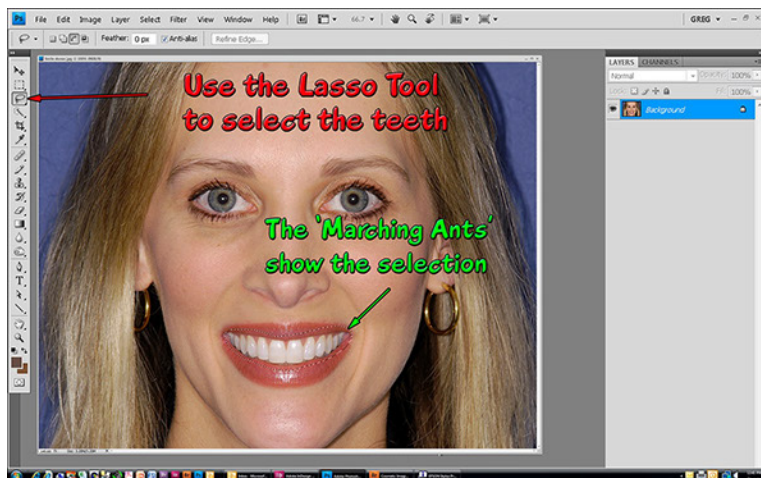
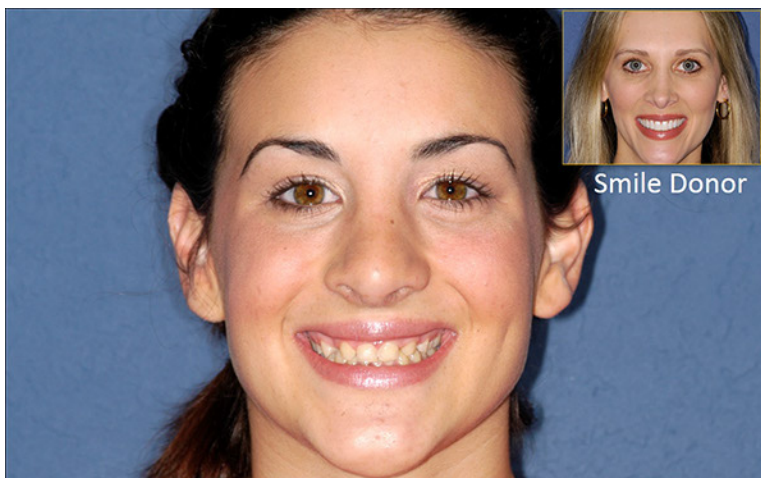
Exposure Tonal Range Color Sharpness Depth of Field



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