
  
Invent the Future



## Adobe Photoshop CS5

### Scanning and Image Manipulation

Presented by Jacques Walker

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## Course Objectives

- Learn Photoshop's function in image manipulation
- Perform a series of exercises
  - Scanning images into Photoshop
  - Resizing, cropping and rotating images
  - Sharpening and improving image quality
  - Manipulating images
- Touch on layers and how they are used

  
Invent the Future

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## What's so complicated?

- A wise man once told me:
  - "Photoshop is easy, it only does one thing...change pixels"



  
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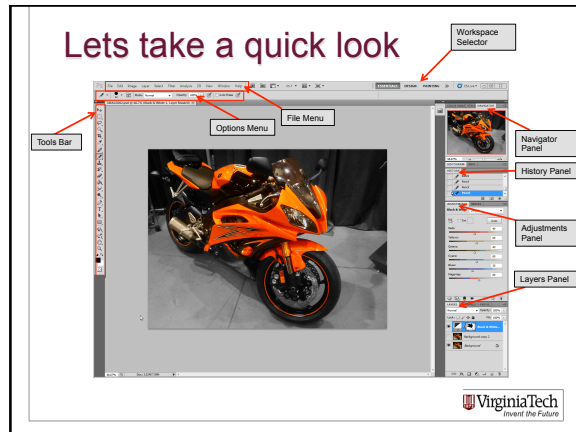
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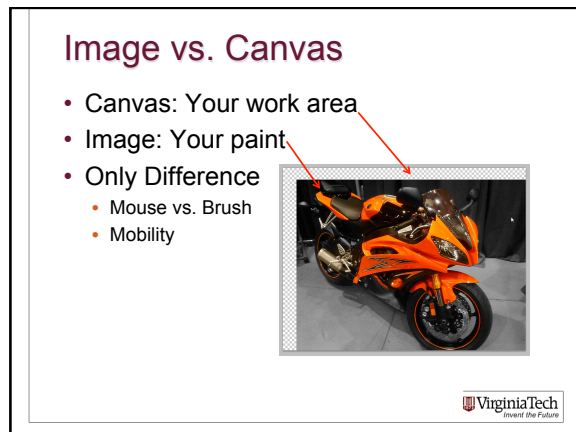
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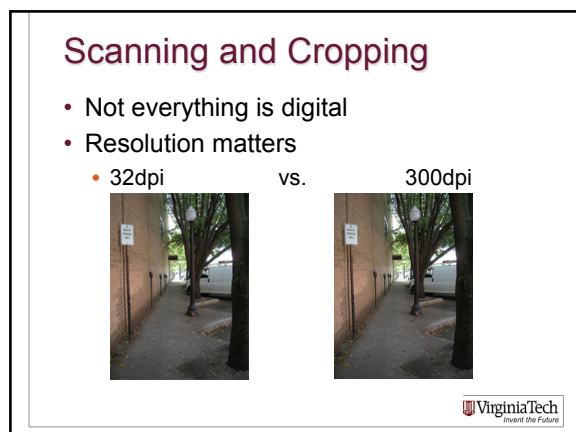
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## Exercise 1 – Scanning

### Mac:

- Open Epson Scan>Preview>Scan
- File>Save to Desktop
- Right-Click Image>Open With>Adobe Photoshop CS5

### Windows:

- Open Photoshop, File>Import>EPSON Scanner
- Preview>Scan>Close Epson Dialog Box



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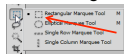
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## Exercise 2 – Cropping

### • Select and Paste Method

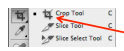
- Select the Rectangular Marquee Tool
- Drag the crosshair to select each image
- Edit>Copy
- File>New, Edit>Paste



» Note: Size of the canvas is automatically populated

### • Crop Tool Method

- Select the Crop Tool
- Drag the crosshair over what you want
- Commit your change



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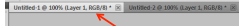
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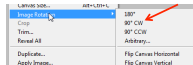
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## Exercise 3 – Image Rotation

### • Select the Untitled tab



- From the toolbar, select Image>Image Rotation>90° CW



### • Rotation by Hand:

- 1<sup>st</sup>: Select the object using the Rectangular Marquee Tool
- 2<sup>nd</sup>: Select the Move Tool and rotate



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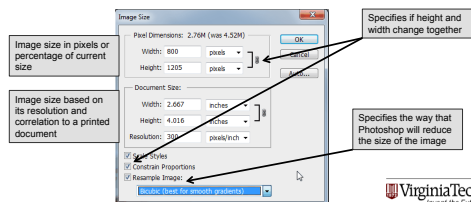
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## Exercise 4 – Resizing Images

- From the toolbar, select Image, Image Size
- Width: ~1024px
- Height: ~1546px



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## Resizing Images Cont.

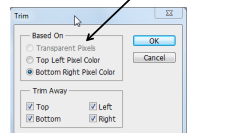
Resizing Images via the Move Tool:

- Select the Move Tool, check show transformation controls



Trimming:

- Removes excess canvas
- Image>Trim...



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## Exercise 5 – Adding and Manipulating Text

- Select the Horizontal Text Tool
- Using the cross hairs, select the area at the top of the image.
- Font: Myraid Pro, Regular, 12pt, Sharp
- Add some text “Martial Arts ickey”
- Using the warp text feature
  - Style: Arc
  - Bend: 18%



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## Image Manipulations

- Photoshop's true power
- A plethora of options
- Patience and diligence is a must

The best image is one that you can't tell has been Photoshopped



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## Exercise 6 – Brightening & Color Correction

- Copy the Photoshop CS5 folder to your desktop from the Shared Folder

### Brightening Images

- Use Image 2 from the Shared Folder
- Image>Adjustments>Brightness/Contrast



### Curves

- Image>Adjustments>Curves



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## Exercise 7 – Magic Wand and Paint Bucket

- Everyone stand up raise their wands and repeat after me.

Wait that's a mouse not a wand...

Oh well~

- Change our image from cloudy to sunny
  - Select the magic wand tool
  - While holding down shift, select the sky
  - Sky Color: a6ddff



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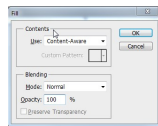
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## Exercise 8 - Content Aware

- Remove the windows from our building
  - Content Aware Exercise
    - Using the rectangular marquee tool select the right top window
    - Press Fn + Delete (Delete on Std Keyboard)
    - Fill Dialog should appear, Click OK



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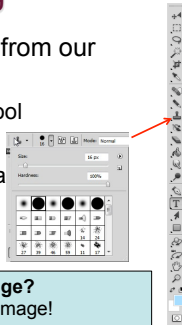
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## Exercise 9 - Cloning

- Remove another window from our building
  - Select the Clone Stamp Tool
  - Adjust brush size to 16px
  - Alt-Click to Define the Area
  - Paint your window away



**Want a Bigger Challenge?**  
Remove the car from the image!



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## Everything is possible



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## Layer Masks

- Used to mask portions of an image without modifying the original
- Like the eraser tool but doesn't damage the original image
- Best used for blending images together



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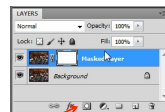
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## Exercise 10 - Layer Masking

- Accent items in our black and white image
  - Open the layer\_mask image from the shared folder
  - Duplicate the initial layer
    - Layer>Duplicate Layer
      - Name: Masked Layer
  - Create your mask
    - Select the Masked Layer
    - Apply a layer mask via the layer mask button



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## Layer Mask Cont.

- Transform our masked\_layer to black and white
  - Insure the masked layer is selected
  - Select the Image
  - Image>Adjustments>Black & White
  - Select the layer mask
  - Paint the mask with black to reveal the colored layer beneath it



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## The Finished Product



- Taken to the Extreme:



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## Exercise 11 - Sharpening

- A touchy subject
- Best on the small stuff
- Too much is too much...
- Open blurred\_image from the Exercise folder
- Filter>Sharpen



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## Our Results

Blurred vs Sharpened



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## Exercise 12 – Layers and Opacity

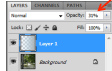
Add a layer:

- Layer>New>Layer

Create a gradient:

- Select the gradient tool
  - Open the gradient editor:
    - Foreground to transparent: Gray to Transparent
  - Drag the crosshair across the image

Transparency:



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## Saving and File Formats

- Most popular
  - JPG or JPEG
  - GIF
  - PNG
- Vector Based
  - PSD
  - EPS
- What's the difference and does it really matter?



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## Resources

### Websites

- <http://www.photoshopessentials.com/>
- <http://www.planetphotoshop.com/>
- <http://www.noupe.com/photoshop/60-most-wanted-photoshop-tips-tricks-tricks-and-resources.html>

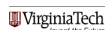
Questions?

Environment

- <https://gateway.edtech.vt.edu/gateway/main.jsf>

### InnovationSpace

- 1140 Torgersen Hall



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