

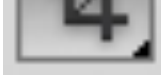
Cropping & Resizing

Introduction to Photoshop

Lecture Outline

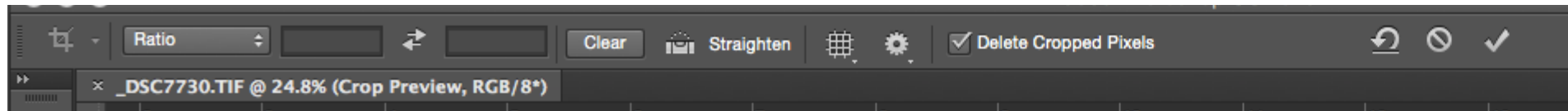
- Cropping
 - Rotating image
 - Rule of thirds grid
 - Cropping shield
 - Fixed ratio crop
 - Exit cropping
- Resizing images
 - Image resolution
 - Image size dialog box
 - Enlarging images
 - Downsizing images

Cropping

- Crop tool [C] 
 - Hidden tools: slice tools (web graphics)
 - Make selection, press RETURN key to execute
- Another way to crop
 - Rectangular marquee tool [M]
 - Make selection, position it on image
 - Menu: Image → Crop
- **CAN BE DESTRUCTIVE EDIT; AFFECTS EVERY LAYER!**

Cropping

- Option bar elements (left to right)



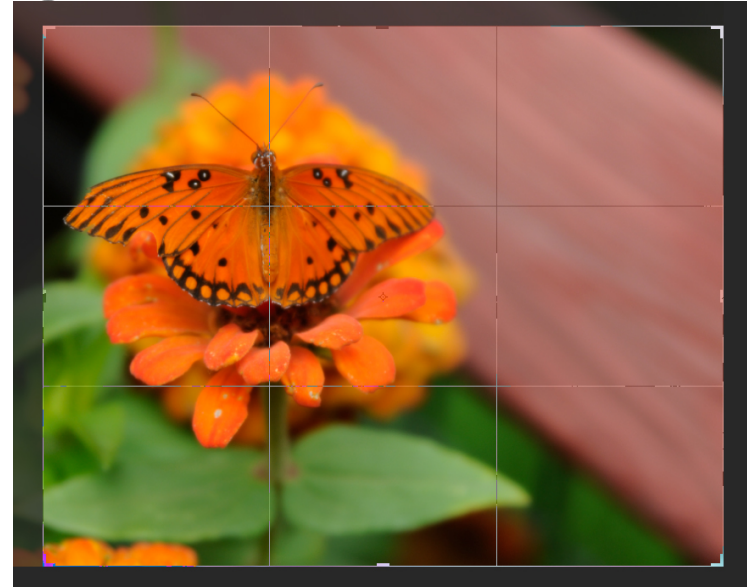
- Ratio crop (fixed width / height)
- Clear (clear crop)
- Straighten tilted images
- Grid overlay
- Crop options (gear)
- Delete cropped pixels (checkbox)
- Reset crop / Cancel crop / Execute crop

Cropping

- Rotating image
 - Make selection with crop tool
 - Move cursor outside of cropping border to corner
 - Cursor changes to double-headed arrow
- New with 2015.5+: Content aware crop
 - Uses content aware algorithm to fill in areas of crop that have no information
 - See Photoshop Café video ([link on website](#)) for more information

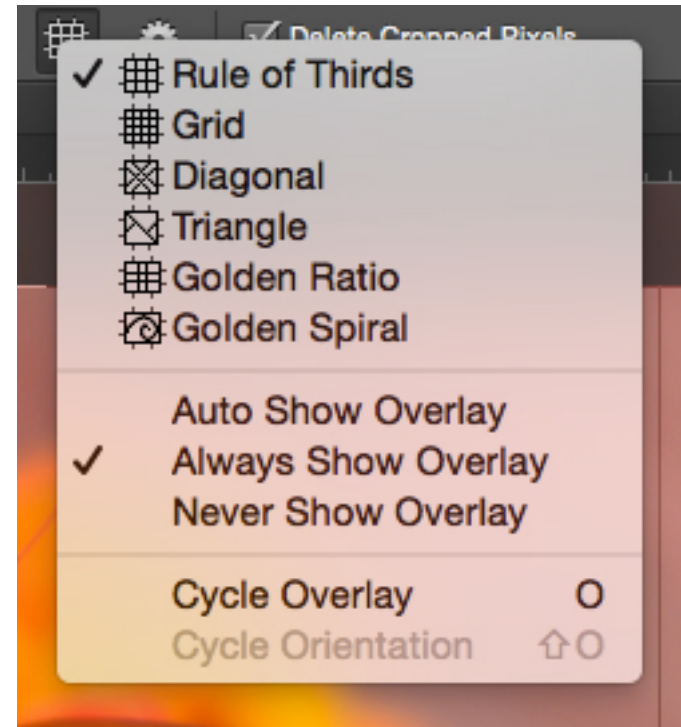
Cropping

- Rule of thirds grid
 - Option bar
 - Focal point at intersection of lines
 - Place horizon on either top or bottom horizontal line
 - Place vertical on left or right vertical lines



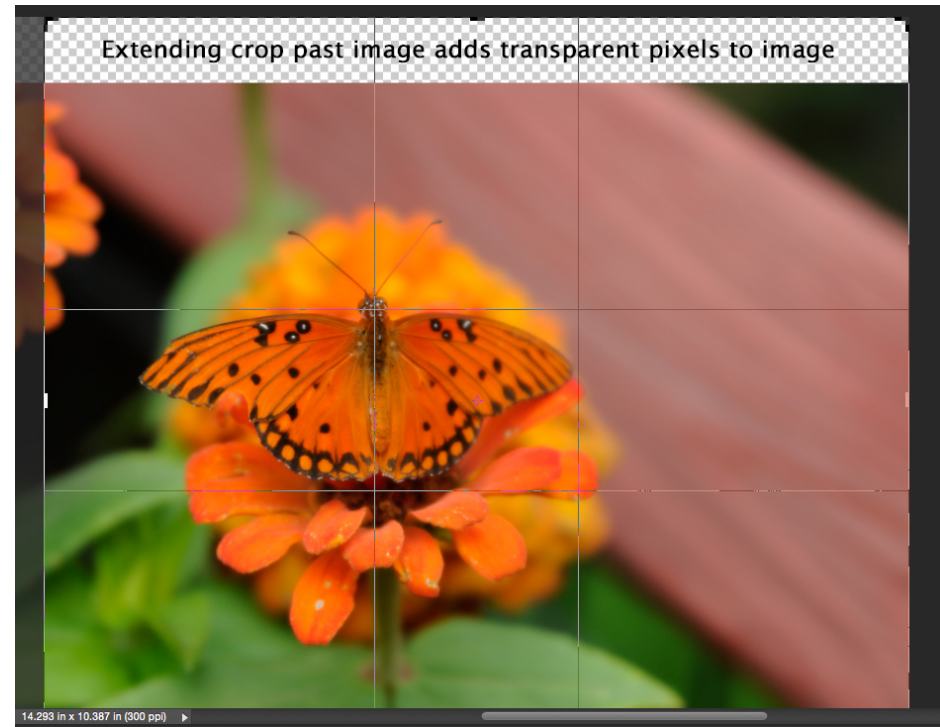
Cropping

- Cropping guides
 - Various options for cropping images
 - Golden Ratio / Golden Spiral based on Phi (Φ) which is approx. 1.618
 - We find ratio of Phi pleasing (1:1.618); examples:
 - Business cards (2 x 3.5")
 - Photographs (4 x 6, 5 x 7 ...)
 - Parthenon



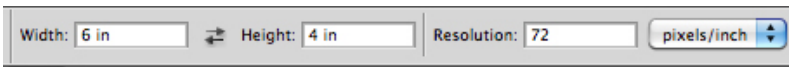
Cropping

- Extending crop
 - If you extend a crop past the image, you get transparent pixels that you can fill unless you're using Content Aware Crop

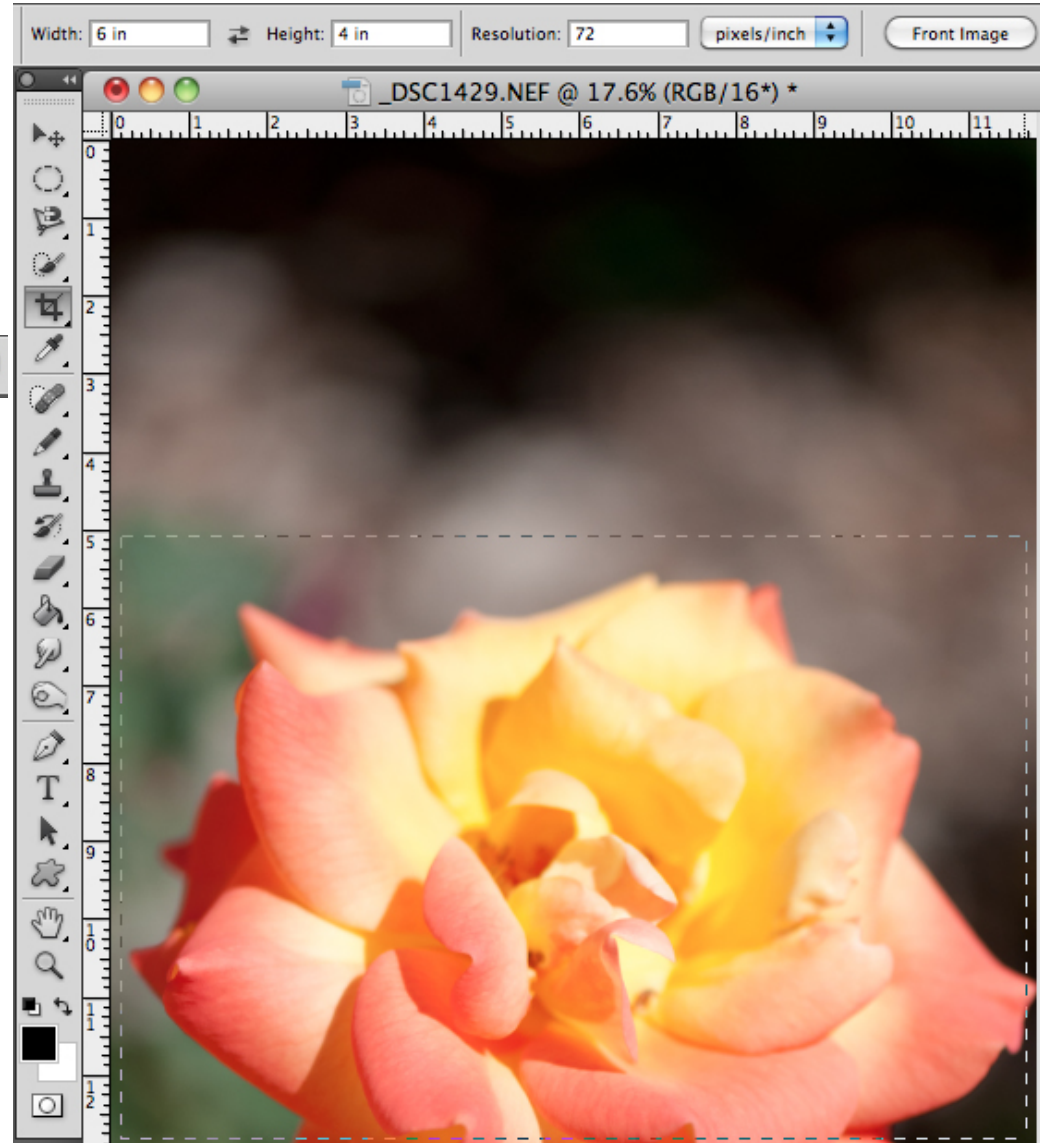


Cropping


- Fixed ratio crop
 - Enter in width, height, and resolution



- Make selection



Cropping

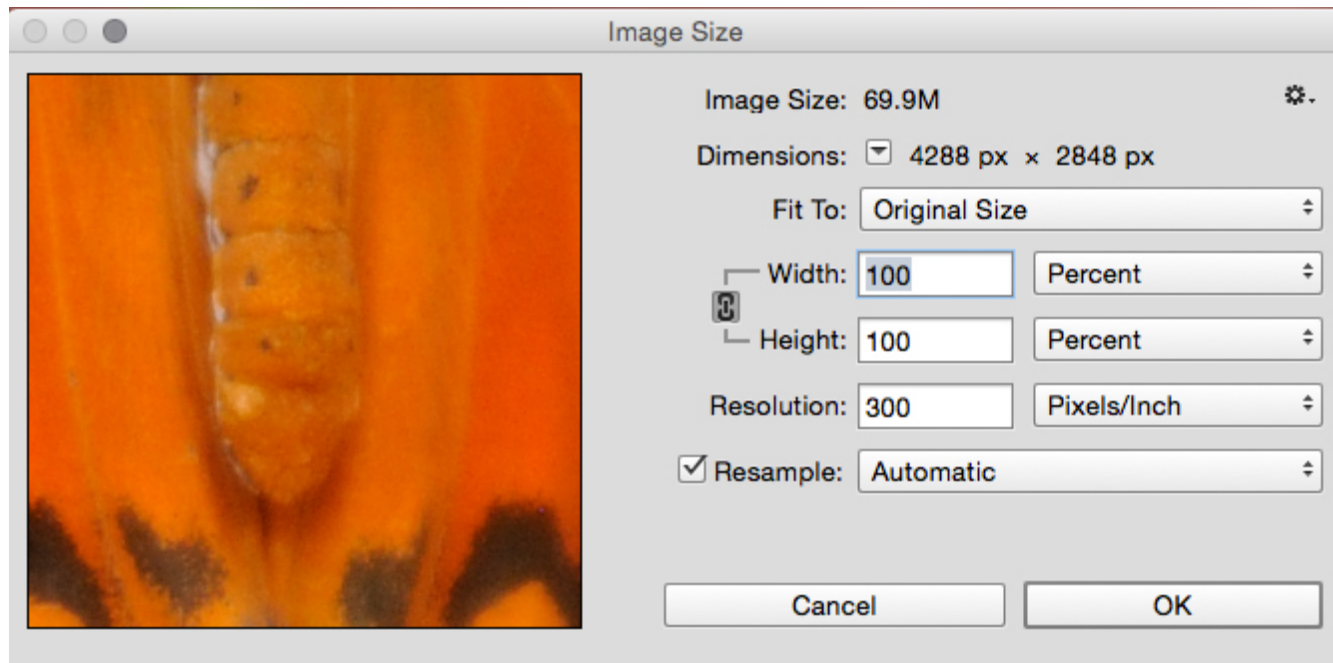
- Exit cropping 
 - Before executing selection
 - [ESC] key
 - Option bar
 - After executing selection
 - PC: [ctrl] + z OR Menu: Edit → Undo OR History panel
 - Mac: [cmd]+z OR Menu: Edit → Undo OR History panel
 - Several steps in?
 - [alt + ctrl] + z / [opt + cmd] + z OR History panel
 - Note: can only undo the maximum number of history states set (default: 50)

Resizing Images

- Image resolution sizes
 - Web / email: 72 pixels / inch
 - Print:
 - Minimum: 180 pixels / inch
 - Maximum: 240 pixels / inch (most cameras RAW default size)
 - > 240 ppi? Don't gain much in way of resolution

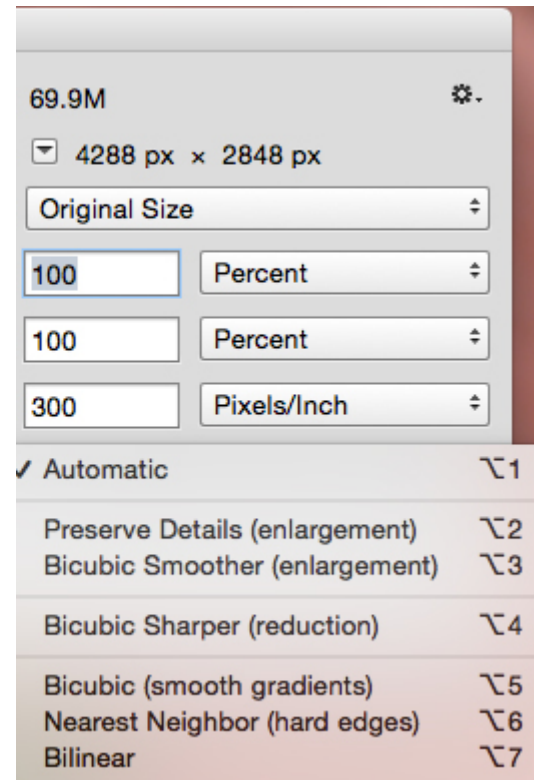
Resizing Images

- Image size dialog box
 - Menu: Image → Image Size
 - Keyboard:
 - PC: [ctrl + alt] + i
 - Mac: [cmd + opt] + i



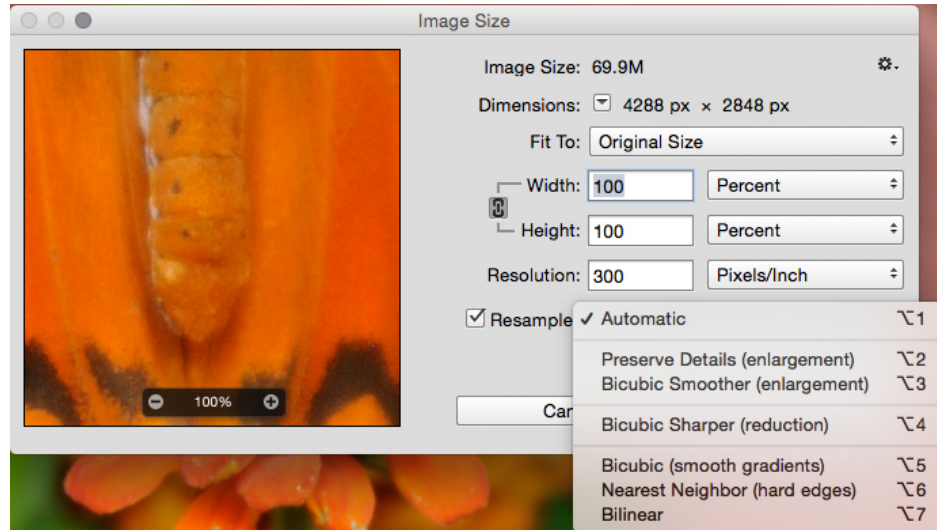
Resizing Images

- Image resample
 - Enlarge
 - Preserve Details
 - Bicubic Smoother
 - Reduction
 - Bicubic Sharper



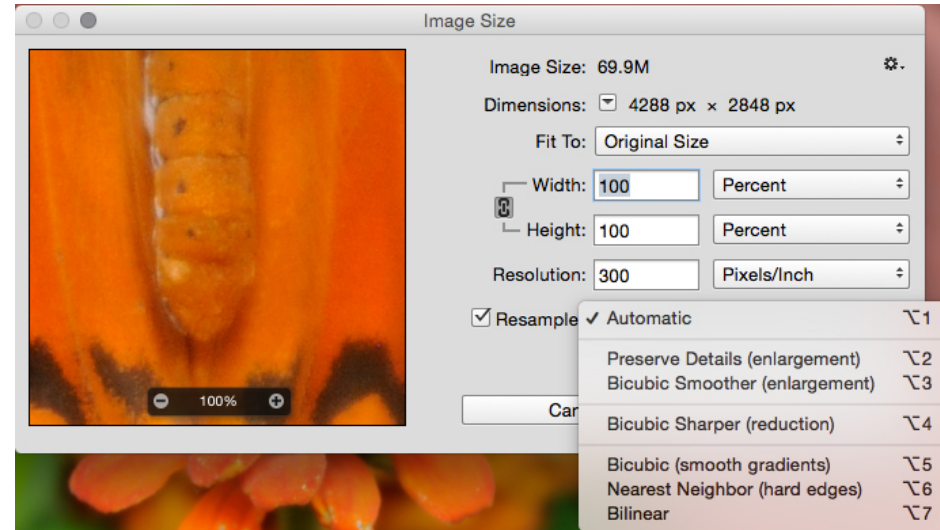
Resizing Images

- Enlarging high res images
 - Bring up Image Size dialog box
 - Put Pixel Dimensions to percent, click lock to preserve aspect ratio
 - Make sure that Resample Image is selected and Bicubic Smoother or Preserve Details is selected
 - Enlarge in increments of 100% (i.e., 200%, 300%)
 - Go no larger than 300%
 - Need larger than 300%, use third party plugin



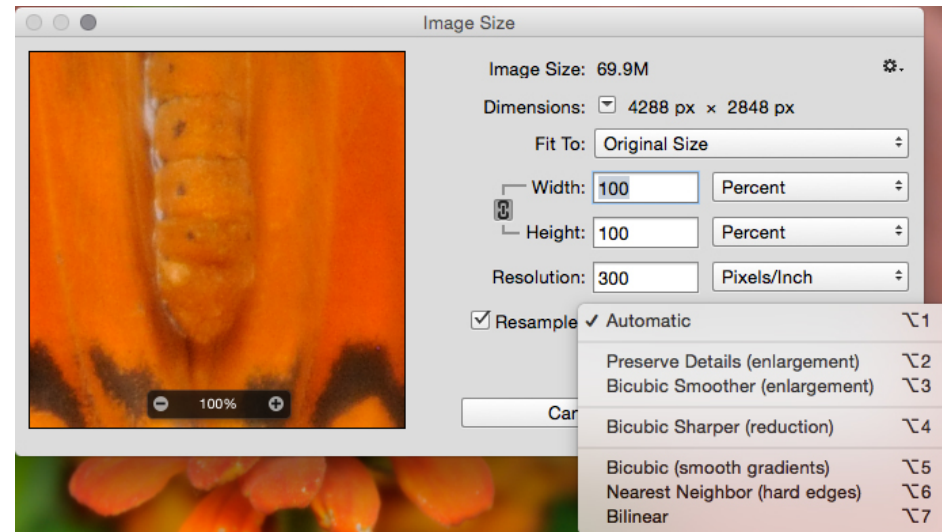
Resizing Images

- Enlarging low res images
 - Bring up Image Size dialog box
 - Deselect Resample Image
 - Enter new resolution
 - Print: 180 - 240 pixels/inch
 - Photoshop will maintain proportions (width & height) of image



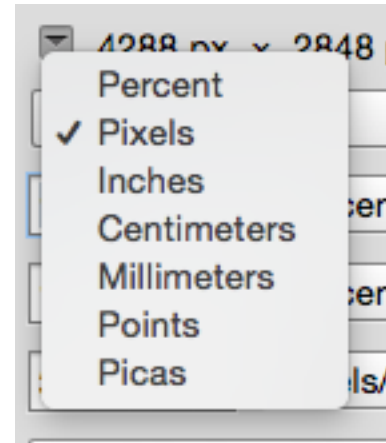
Resizing Images

- Downsizing high res images
 - Bring up Image Size dialog box
 - Select Resample Image
 - Enter Width & Height in Document Size fields
 - Select Bicubic Sharper to sharpen image as it is reduced



Resizing Images

- Image dimension measurement options
 - Allows you to work in multiple measurements
 - Points / Picas: typography measurements (72 points to the inch)



Resizing Images

- Image size default options

– Web

– Paper
(A4/A6: Europe & Asia)

– Photographs

