

## POW PRINT SCALING

### SCALING WEB PIX

The print area of a Web Picture on the class site should be 384 x 576 pixels, an aspect ratio of 2:3. Digital photograph files contain only the actual picture but scanned prints from the darkroom include black borders and surrounding white space of varying proportions. Below is the recipe for making the print area of all POW web pix the same size.

determine \_\_\_\_\_ the size in pixels of the **short side** of the entire scan  
use \_\_\_\_\_ **IMAGE> IMAGE SIZE**

determine \_\_\_\_\_ the size in pixels of the **short side** of the inside print area  
use \_\_\_\_\_ the **MEASURE** tool in the toolbox

show the INFO box \_\_\_\_\_ with **WINDOW> SHOW INFO**  
view the print \_\_\_\_\_ at **FIT TO SCREEN SIZE** [CMD] 0

click on \_\_\_\_\_ the **MEASURE** tool, or -  
click and hold \_\_\_\_\_ the **EYEDROPPER** tool  
to reveal the hidden **MEASURE** tool

position \_\_\_\_\_ the **MEASURE** tool cursor at one edge of the print  
hold down \_\_\_\_\_ the **[SHIFT]** key to constrain the movement  
drag the cursor \_\_\_\_\_ to the other end of the print  
look at the info box \_\_\_\_\_ to see the length of the **MEASURE** tool line  
this is the size of the print area

divide \_\_\_\_\_ the outside dimension by the inside dimension  
**outside dimension / inside dimension**  
the result should be larger than 1

multiply \_\_\_\_\_ this number by the desired print size on the short side (384 pixels)  
**outside dimension / inside dimension \* desired size (384)**  
the result is the size of the **final outside dimension**

rescale \_\_\_\_\_ the print as a web pic with the **IMAGE> IMAGE SIZE** menu

### EXAMPLE CALCULATION

a picture is scanned and the outside dimension of the short side is 1540 pixels  
the **MEASURE** tool is used to determine that the inside picture area is 1490 pixels  
the desired size of the web pic is 384 pixels  
outside dimension / inside dimension \* desired size     1540 / 1490 \* 384  
use a calculator to get 1540 / 1490 = 1.033557  
there is a calculator app inside the Apple Menu  
put the bigger number in first so the result is larger than 1  
multiply this scaling ratio by 384 to get 396.88  
round up to 397

resize the picture size in the **SAVE FOR WEB** dialog box  
set the image size of the shorter side to 397  
the inside picture size will be 384  
the black border and the white space around that  
will surround the picture, exceeding its dimensions

This way all pictures on the web page will be the same size, with varying borders.  
This makes the site appear consistent and well designed.

### THUMBNAIL SCALING

This same method is also used to determine the size of thumbnails for the class web site. Just substitute the number 96 for 384 in the above equation. Or make the thumbnail 25% of the web pic. See, arithmetic is not so painful.