

# OVERVIEW OF DIGITAL IMAGING

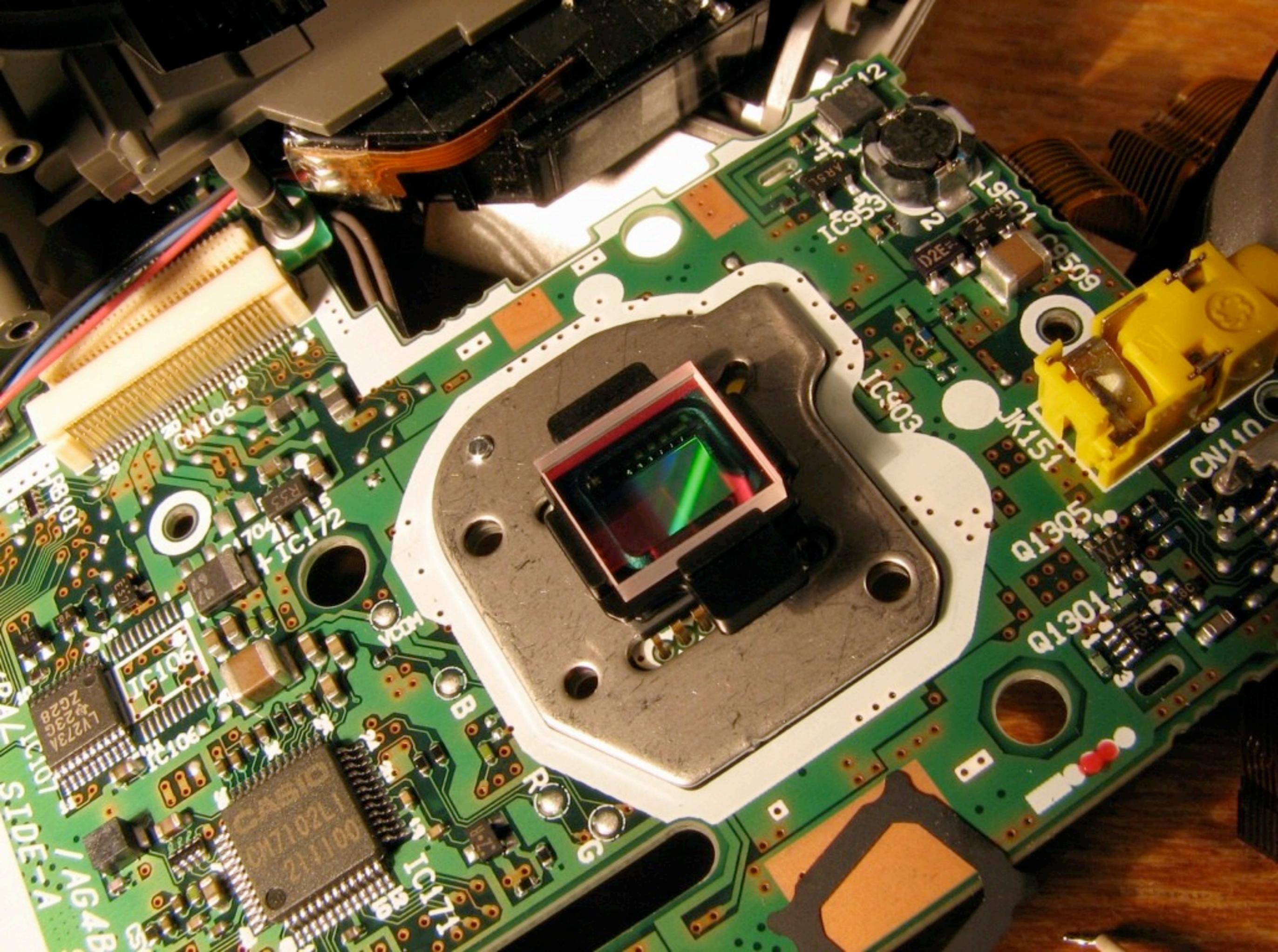


PS2  
PlayStation 2

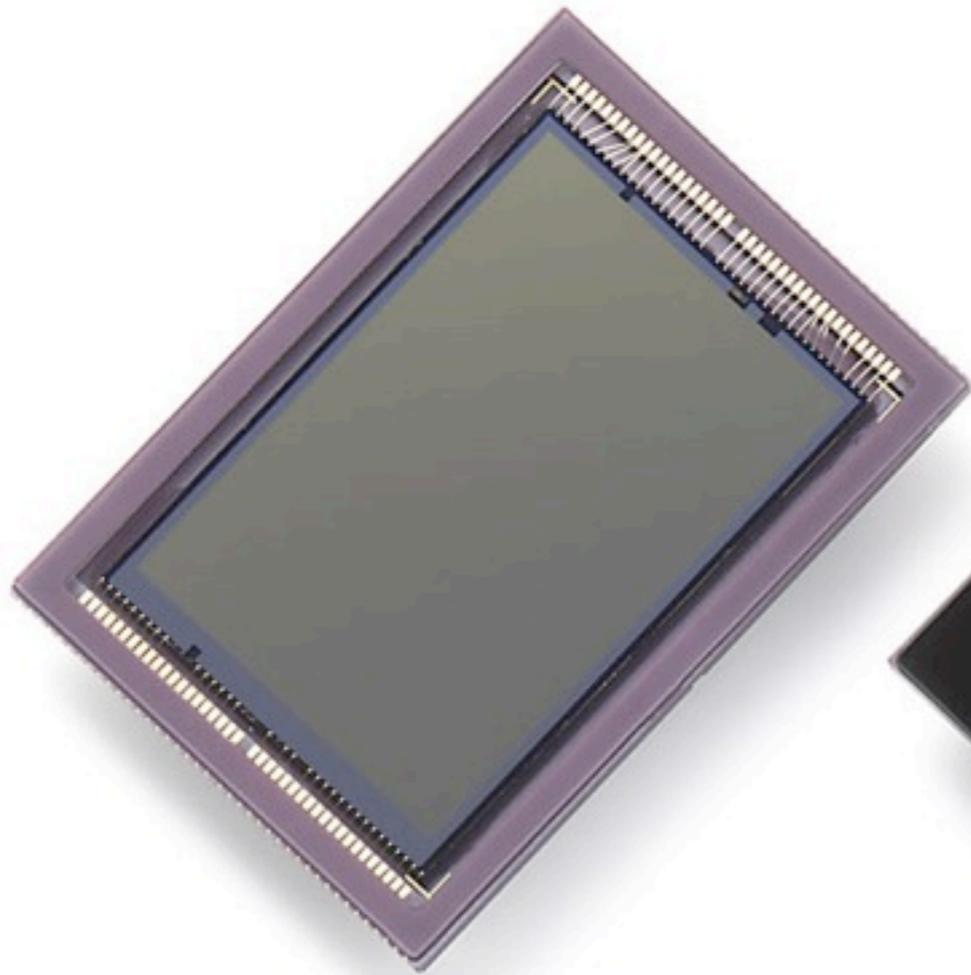
add for Playstation 2

# FILM VS. DIGITAL

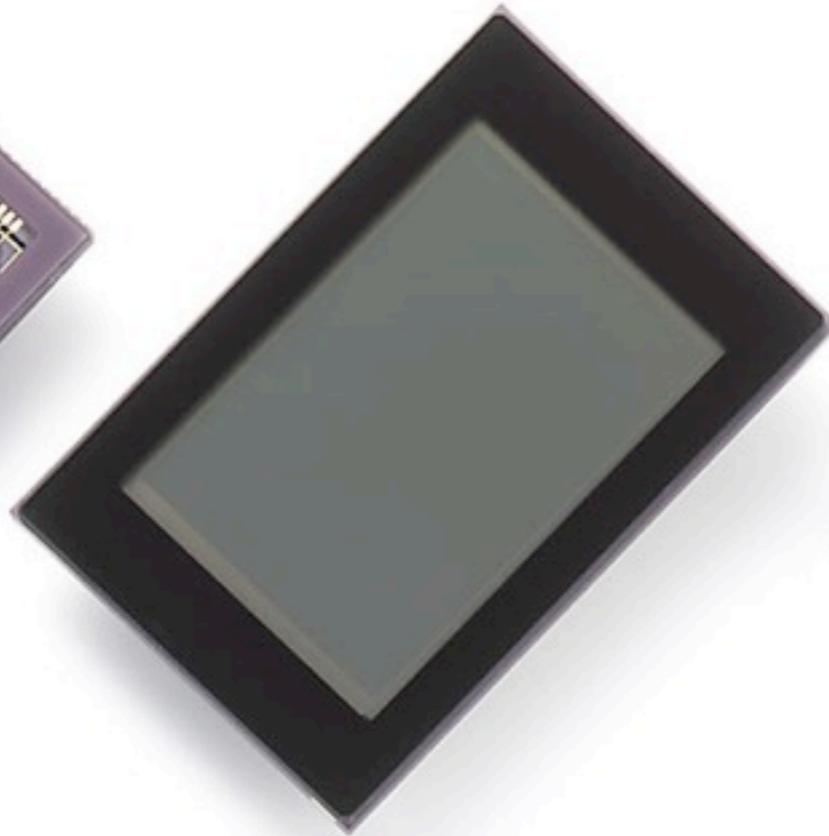




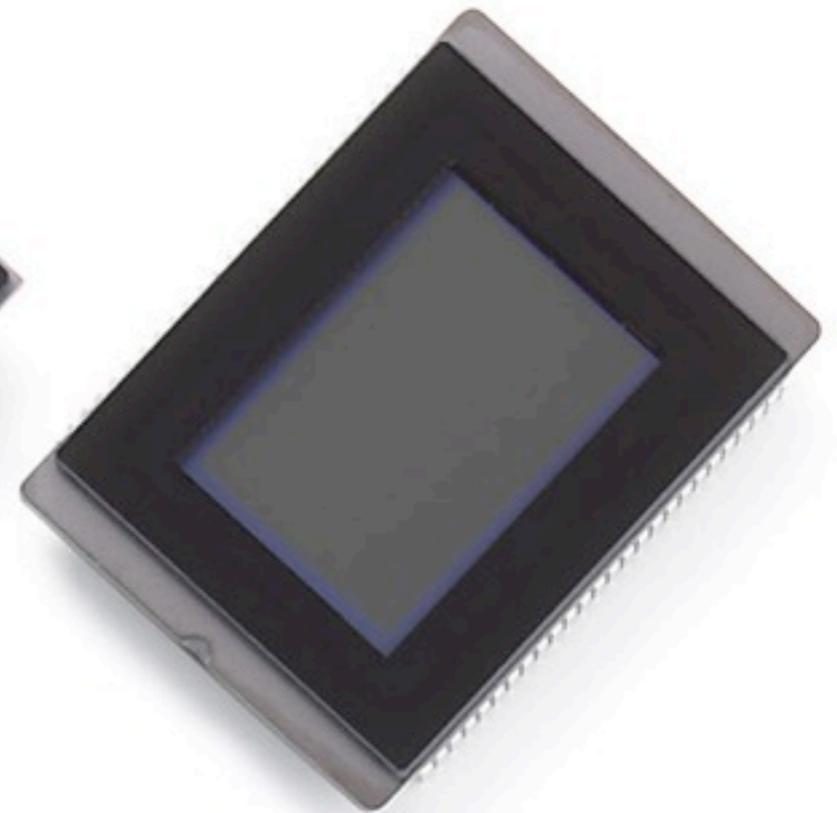
# SENSORS



Canon EOS-1D 11 megapixel  
full-frame CMOS sensor (36 x 24 mm)



Canon EOS-1D 4 megapixel  
CCD sensor (1.3x FOV crop)



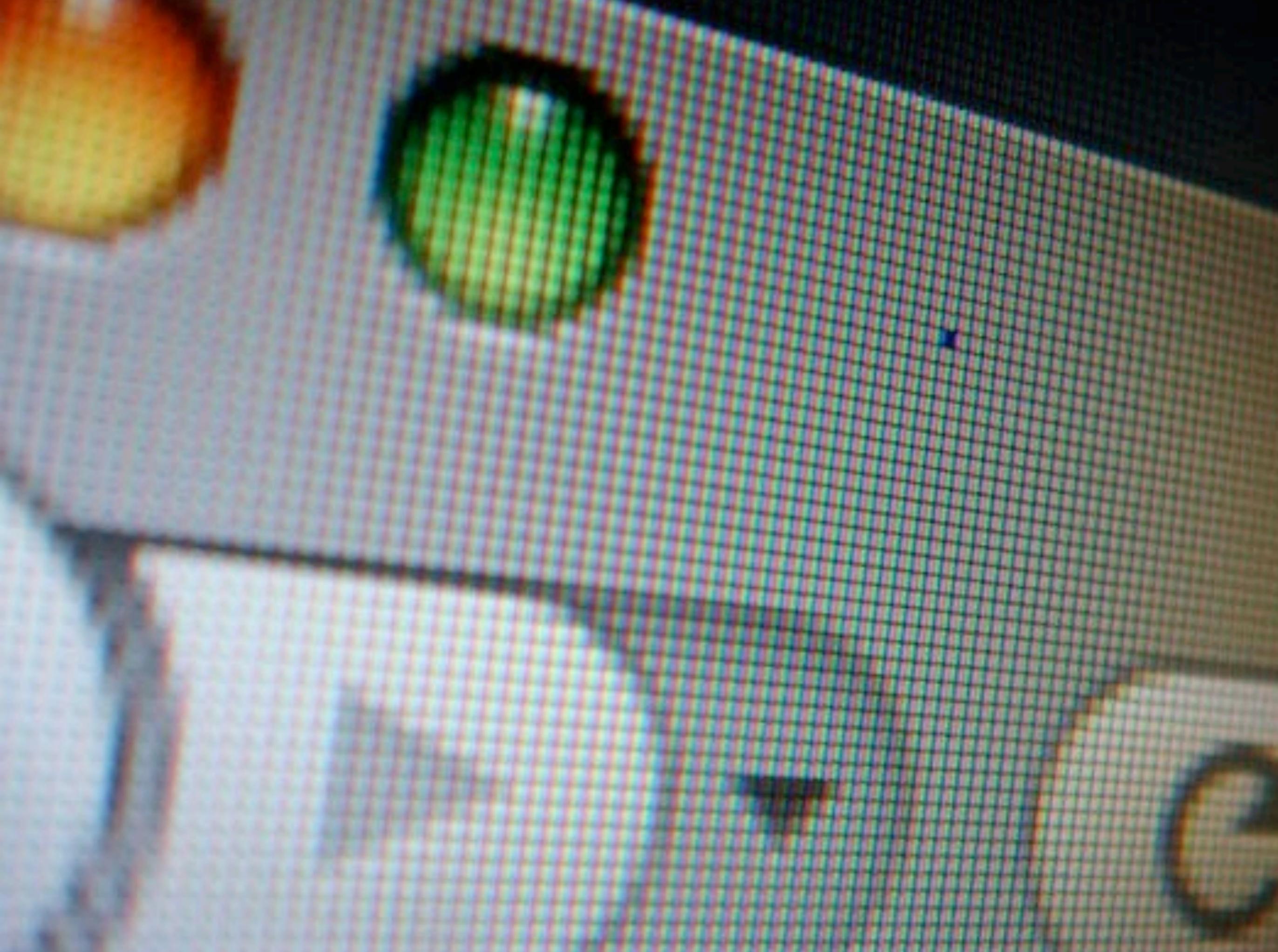
Canon EOS-D60 6 megapixel  
CMOS sensor (1.6x FOV crop)



# FORMATTING IMAGES FOR THE WEB

Three main rules

1. Save images in the right **format**
2. Save images at the right **size**
3. Measure images in **pixels**





PS

Alternative:  
GIMP Open source & free  
<http://www.gimp.org/>

# IMAGE FORMATS: JPEG

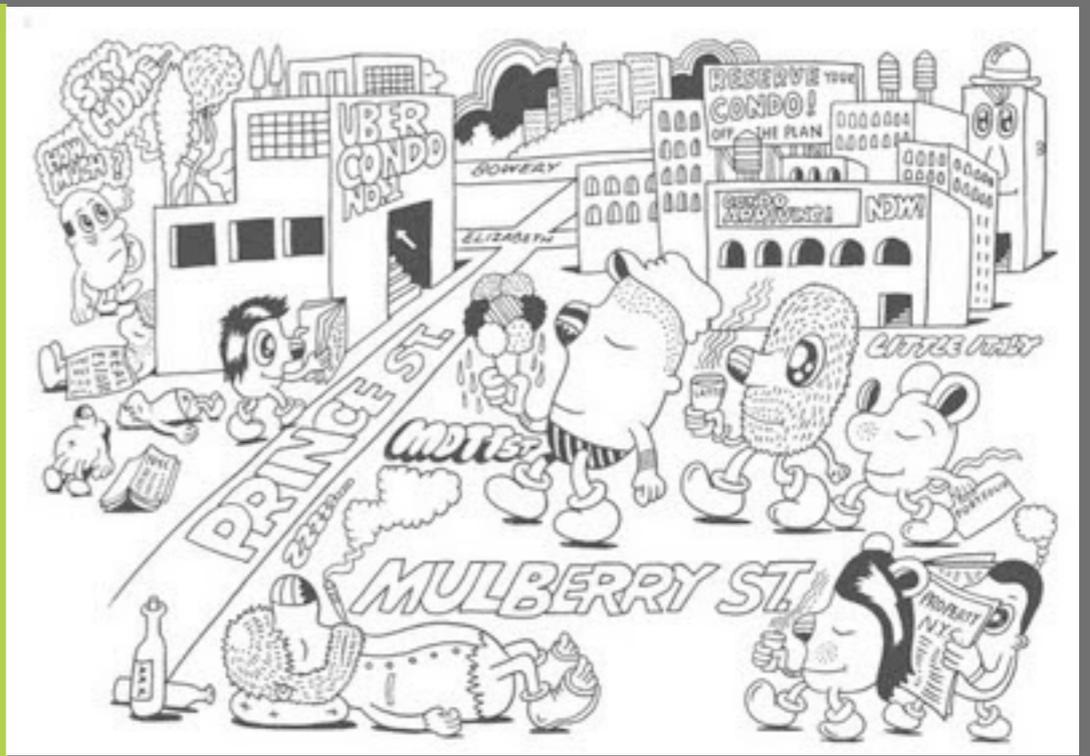


Whenever you have many different colors in a picture you should use a JPEG.





# IMAGE FORMATS: GIF OR PNG

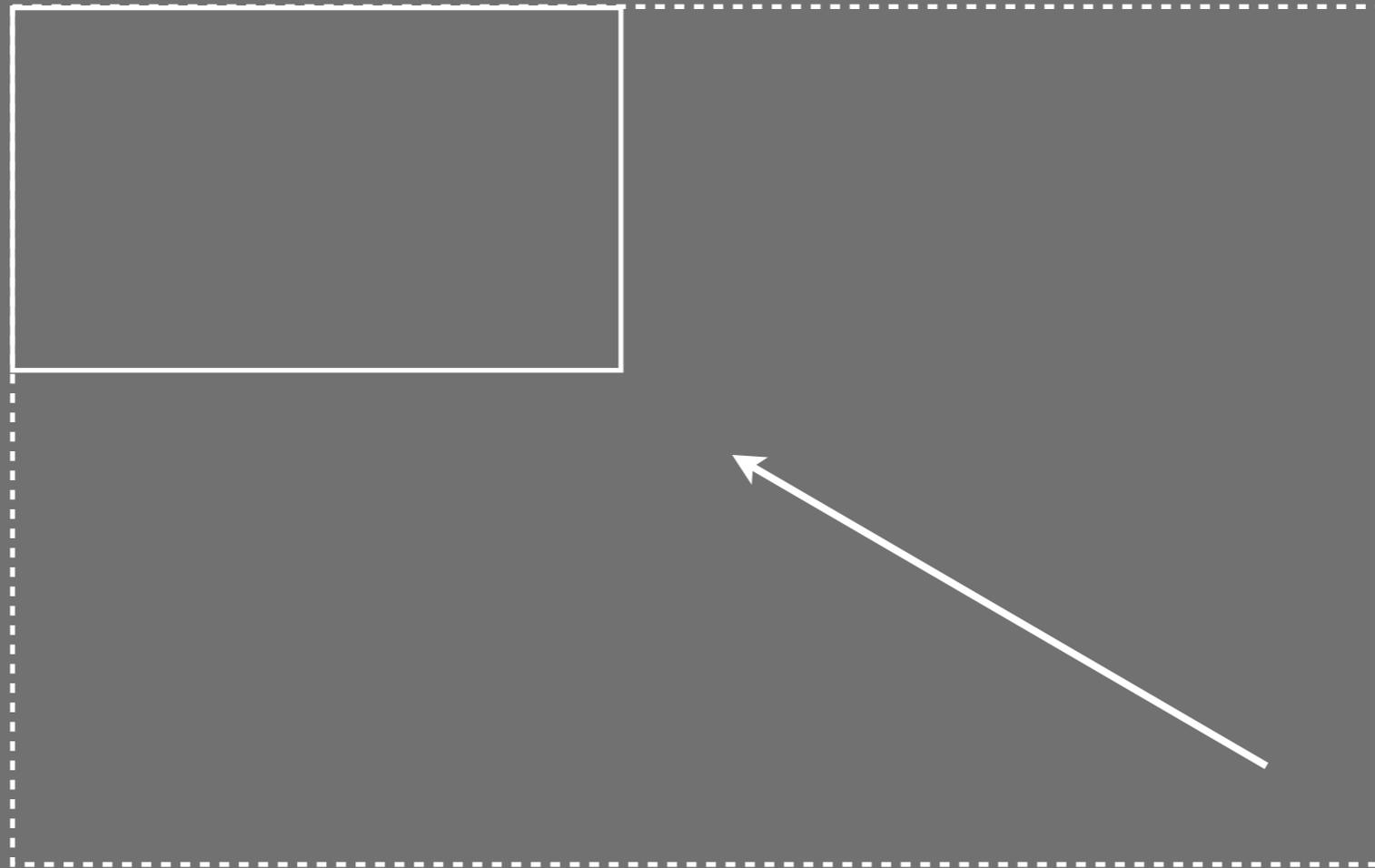


When a picture has an area that is filled with exactly the same color, use **GIF** or **PNG** format.

# IMAGES DIMENSIONS

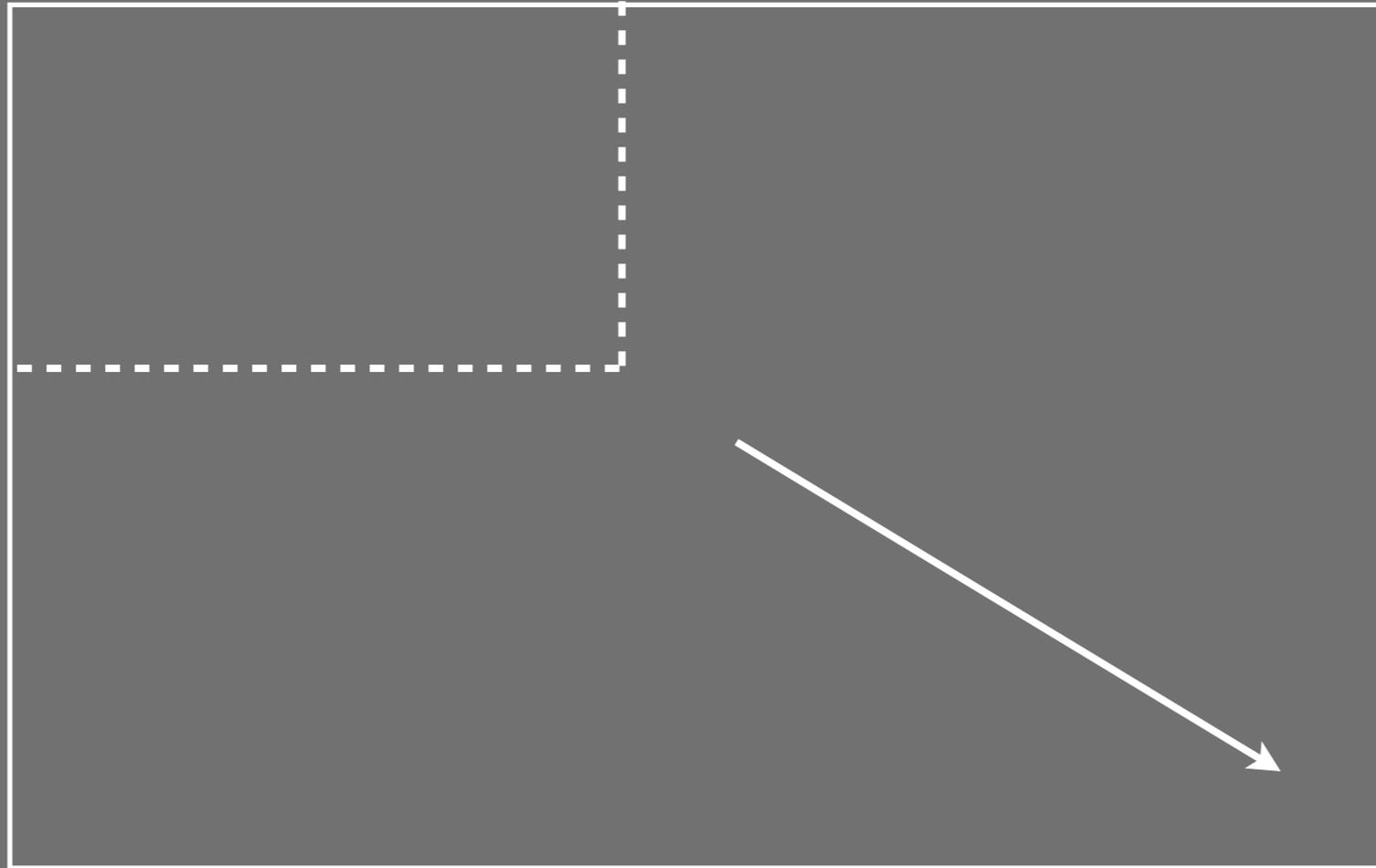
Images you use on a website should be saved at the **same width and height** that you want you want them to appear on the page.

# REDUCING IMAGE SIZE



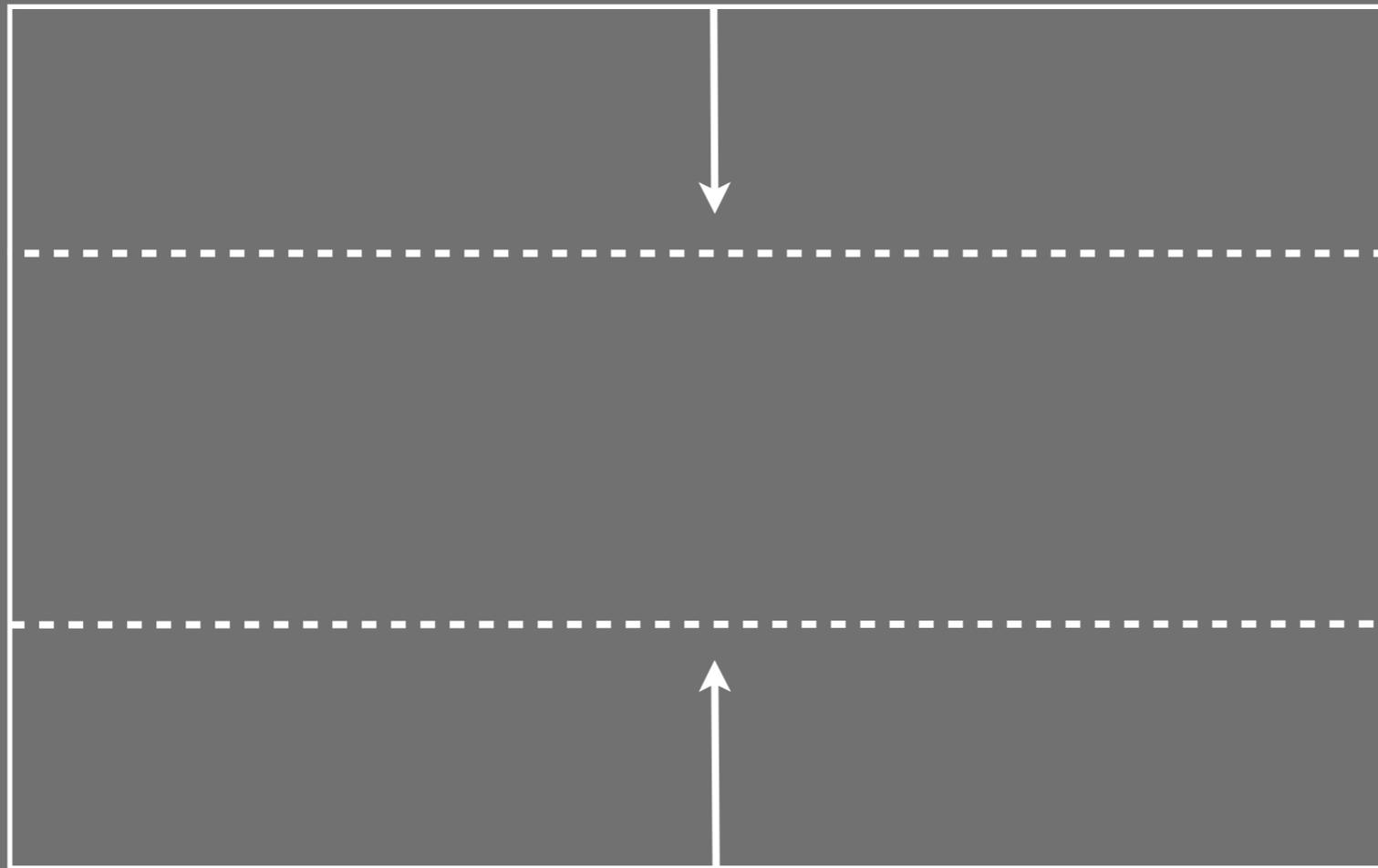
You can **reduce** the size of the images to create a **smaller version** of the image.

# INCREASING IMAGE SIZE



You can't increase the size of photos significantly without **affecting the image quality.**

# CHANGING SHAPE



Only some images can be cropped without losing valuable information.





# MEASURING IMAGES & RESOLUTION

When sizing an image for use on the **screen** you should always set dimensions of the image in terms of **pixels** (**not** centimeter or inches)

The **resolution of the screen** is the number of pixels represented on it, and on most computers you can increase and decrease that number.

MacBook pro 15"



1440x900 pixels

MacBookpro 15"  
w/Retina display



2880x1800 pixels

# DPI/PPI

When creating images for **print**, it is best to save them at a resolution of **300** DPI (dots per inch) or higher to ensure that it looks sharp.

In general, images created for the **screen/web** doesn't need to be saved higher than **72** PPI (pixels per inch).

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# EXAMINING IMAGES ON THE WEB

- **Checking the size** of images:

Right-click on the image and select “**Open Image in New Tab**” from the pop-up menu.

- **Downloading** images:

select “**Save Image As...**” from the pop-up menu.

# ASSIGNMENT

DUE THURSDAY, SEPTEMBER 6

- Post a **bio, picture, and name** (your real one or a made up identity) as a blog entry on **Open Lab**.
- Read the “Getting Started” section on Open Lab: <http://openlab.citytech.cuny.edu/blog/help/help-category/getting-started/>
- Read the image resizing tutorial at: <http://www.ophrysphotography.co.uk/pages/resizing.htm>