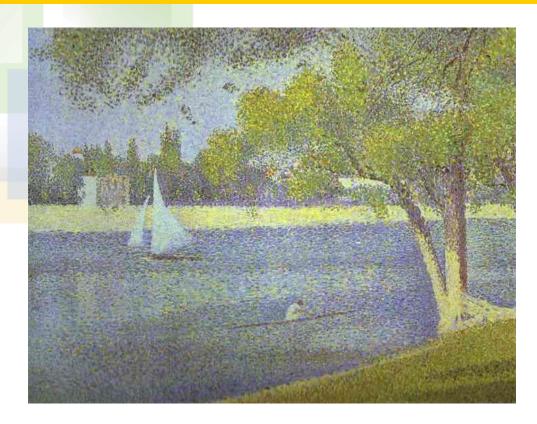
After completing this lesson, you will be able to:

- Comprehend the basics of Web graphics.
- View and manipulate Web graphics in a graphics program.
- Describe the different types of graphics file formats.
- Choose "safe" colors for the Web.
- Crop a graphics image.

Pointillism

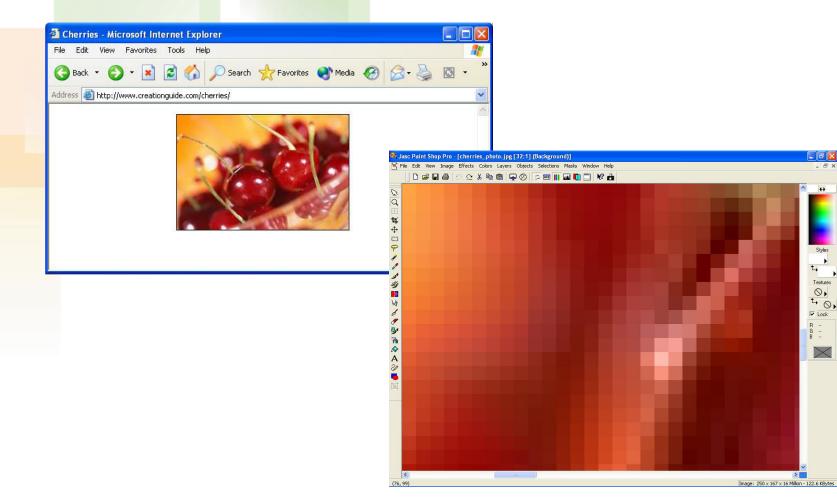


Georges Seurat*. The Siene at La Grande Jatte, Spring.* 1888. Oil on wood. Musée Royaux des Beaux-Arts, Brussels, Belgium

Pixels

Styles t.

Textures 0, to Or ₩ Lock R .. G .. B .. \times



Palettes

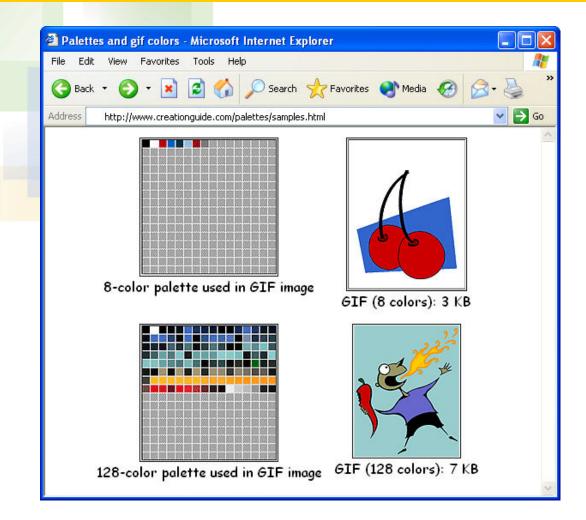


Image Files on Web Pages

Revisiting Figure 1-4:

Index.html (Home Page)





4members.jpg



File Types

Some sample file types (note the icons and extensions):



bills.xls Microsoft Excel Worksheet 14 KB



holiday_gift_list.doc Microsoft Word Document 24 KB



cat.gif 362 x 45 GIF Image



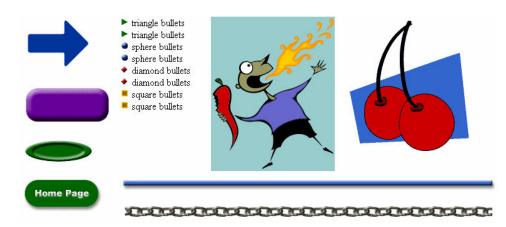


dog.jpg 297 x 156 JPEG Image

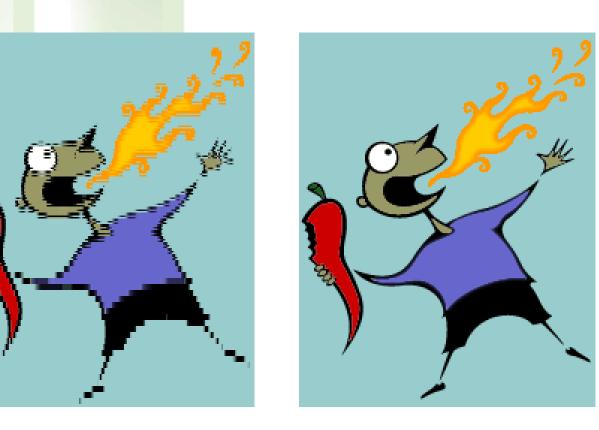
GIFs

GIFs:

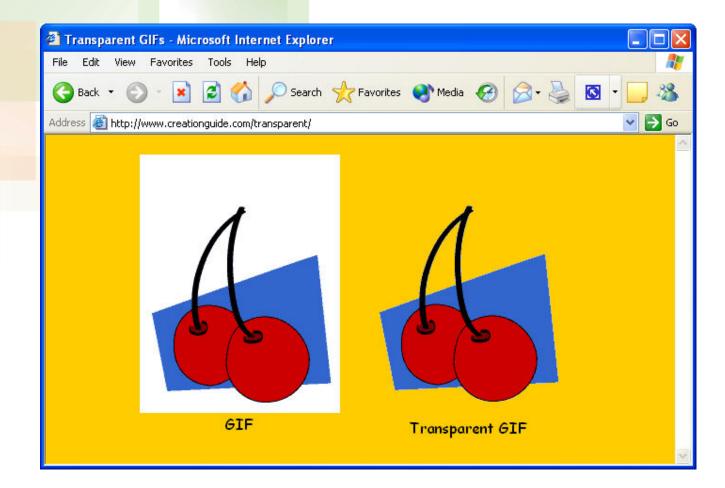
- Usually small files that download quickly
- Limited to 256 colors
- Display logos, bullets, icons, and other small graphics
- Support transparency
- Support interlacing
- Can show simple animation



Interlacing



Transparency



Clip Art GIFs





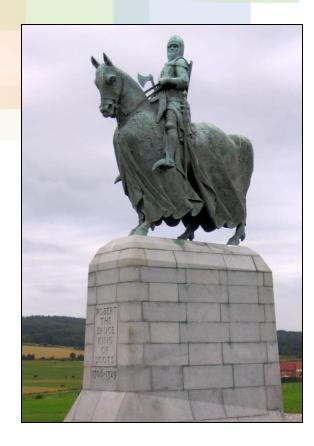


The tiger clip art image is transparent and animated (the tiger jumps back and forth through the ring of fire).



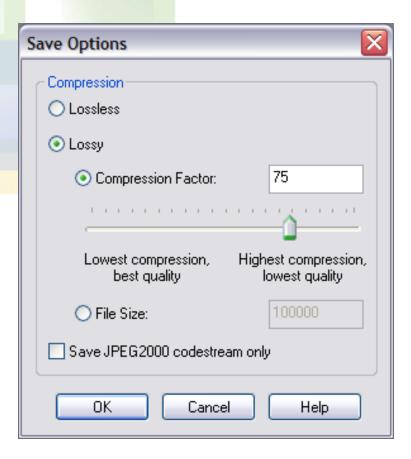
JPEGs

JPEGs are used to display pictures and other images that contain millions (or at least lots!) of colors.



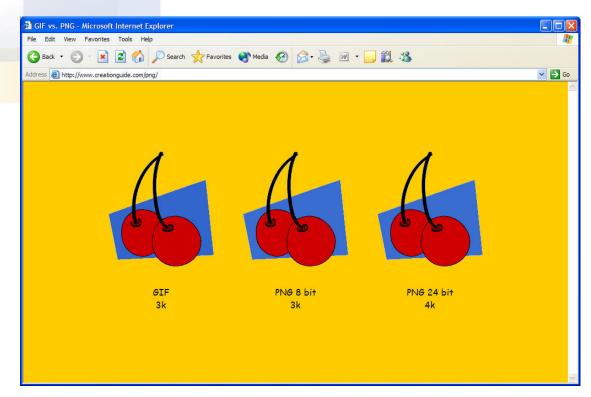


JPEG Save Options



PNG vs. GIF

- Overall, PNGs serve the same purpose as GIFs.
- Main Difference: PNGs support transparency in 8-bit (256 colors) and 24-bit (millions of colors) images.



Optimizing Images

Ways to optimize images for the Web:

- Use Web-safe colors to avoid dither in GIFs and PNGs
- Configure JPEGs to render progressively
- Compress JPEGs
- Resize images
- Crop images
- Use thumbnails when possible

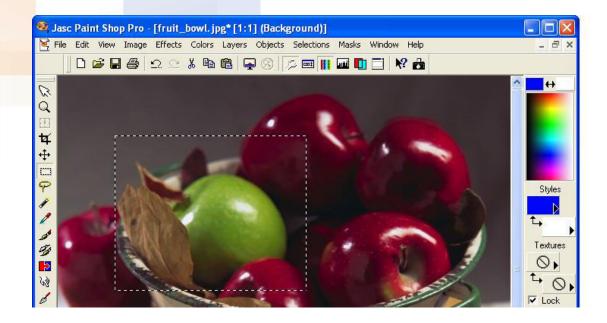
Resize Dialog Box

The Resize dialog box in Paint Shop Pro 8:

Resize		X
Original Dimensions		
	1400 Pixels (19.444 Inches)	
-	1050 Pixels (14.583 Inches) 72.000 Pixels / Inch	
Pixel Dimensions (50% x 50%)		
Width:	- 700	
Height:	- 525	
Print Size		
Width:	9.722	
Height:	7.292	
Resolution:	72.000 Pixels / Inch	-
Resample using: Smart Size		
Maintain original print size		
✓ Lock aspect ratio: 1.3333 👻 to 1		
✓ Resize all layers		
OK Cancel Help		



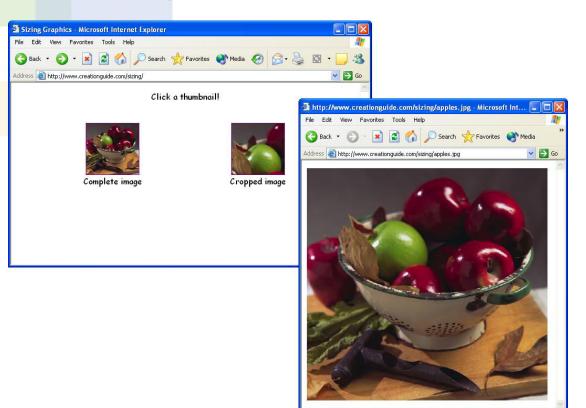
Cropping means to cut away part of a picture to make the image smaller.





Thumbnails

You can use small images or cropped images to create thumbnail pictures.



Photographs

Ways to digitize pictures:

- Scanners
- Film developers
- Digital cameras and camera phones