

Images, Clip Art and Color

CS-150L

Computing for Business Students

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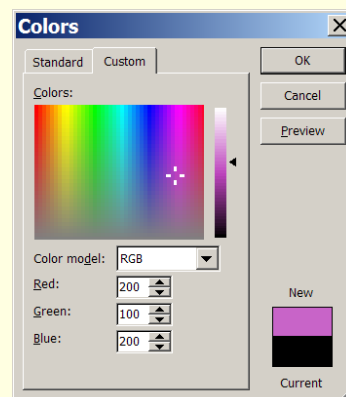
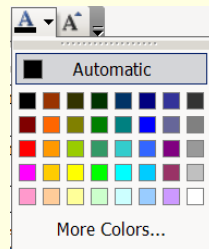
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Why do I need 16,777,216 colors?

My Crayola color pencil box has only 64 colors and it does pretty well.

RGB color is usually 24 bits: 8 bits for red, 8 bits for green and 8 bits for blue.

- This gives $256 \times 256 \times 256 = 16,777,216$ colors



9/16/2009

2

We See Many Tones



Clip Art

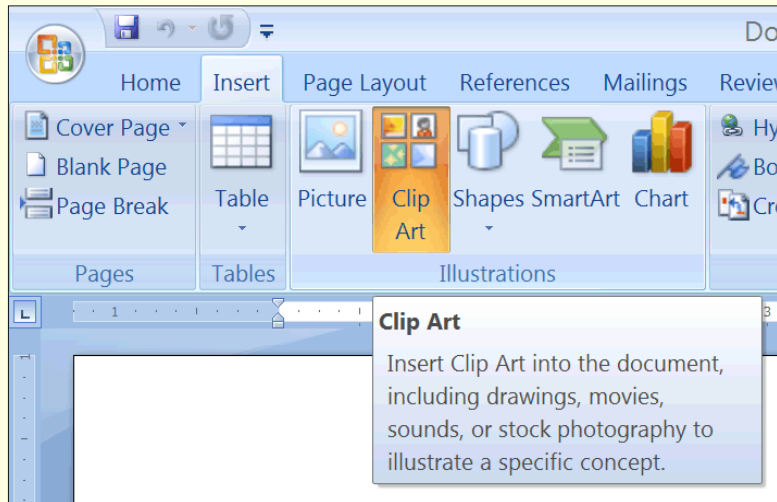
- Free to use without citation
- Can not be used in a published document that is for sale.



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4

Clip Art: First Search Your Collection

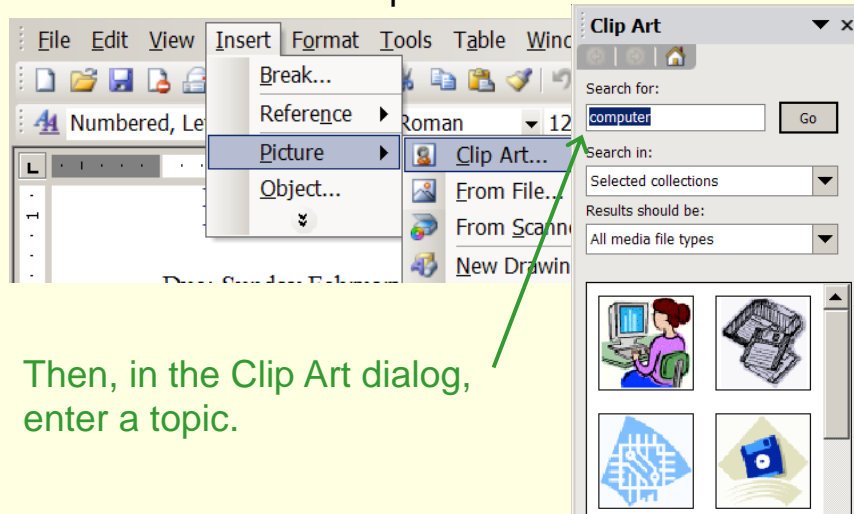


9/16/2009

5

Clip Art: Word 2003

Insert → Picture → Clip Art...

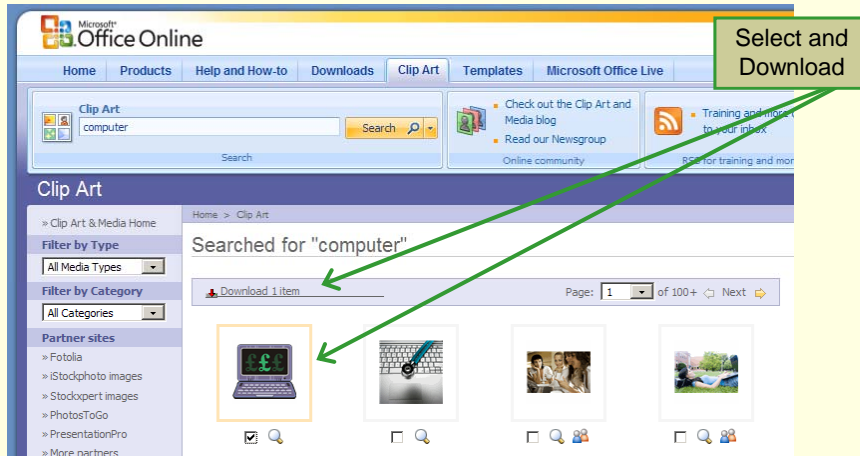


Then, in the Clip Art dialog, enter a topic.

9/16/2009

Clip Art: Search Microsoft Online

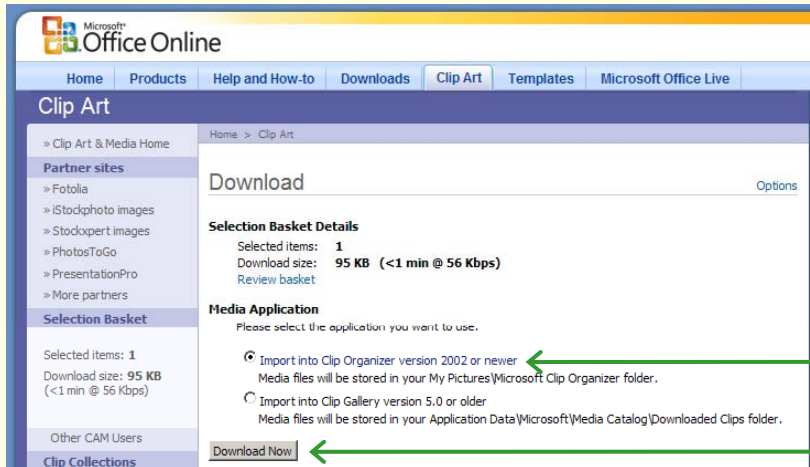
<http://office.microsoft.com/en-us/clipart/default.aspx>



9/16/2009

7

Clip Art: Import into Clip Organizer

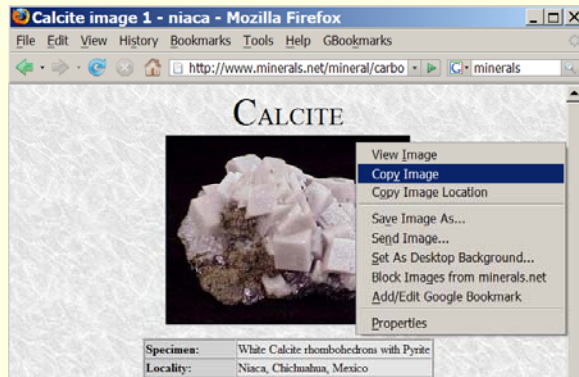


9/16/2009

8

Images from The Web – Easy But Low Quality

1. Right-click on image in Firefox or Internet Explorer, and select "Copy Image".
2. Paste Image into MS-Word: "Edit" → "Paste".
3. **Be sure to site your source and include any copyright notices.**



This image is from "*The Mineral and Gemstone Kingdom*", a free, interactive, educational guide to rocks, minerals and gemstones:

<http://www.minerals.net/>

9/16/2009

9

GIF & Animated GIF

- Graphics Interchange Format (GIF) is a bitmap image format that was introduced by CompuServe in 1987.
- GIF has widespread usage on the World Wide Web due to its wide support and portability.
- The file extension for GIF documents is: .gif.
- A GIF file uses lossless image compression
 - Often about 3:1 for photographic data
 - Often about 10:1 for charts, sketches and cartoons.
- A GIF file can have no more than 256 different colors:
 - Not good for photos.
 - Excellent for drawings, sketches, and charts.
- A single GIF file can contain a series of images creating an animation.



9/16/2009

10

Drawing Toolbar

