

Images, Clip Art and Color

CS-150L

Computing for Business Students

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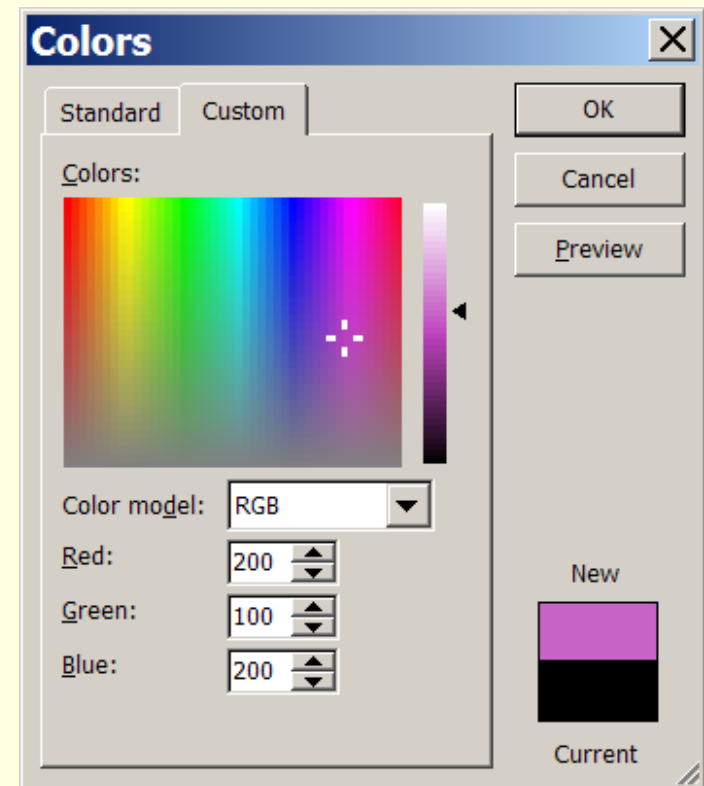
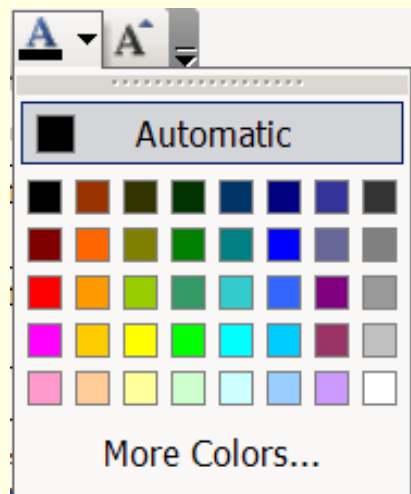


Why do I need 16,777,216 colors?

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

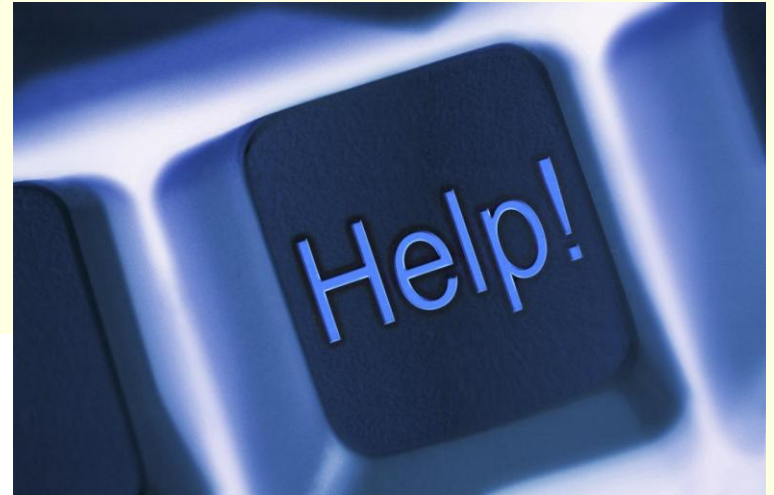


We See Many Tones

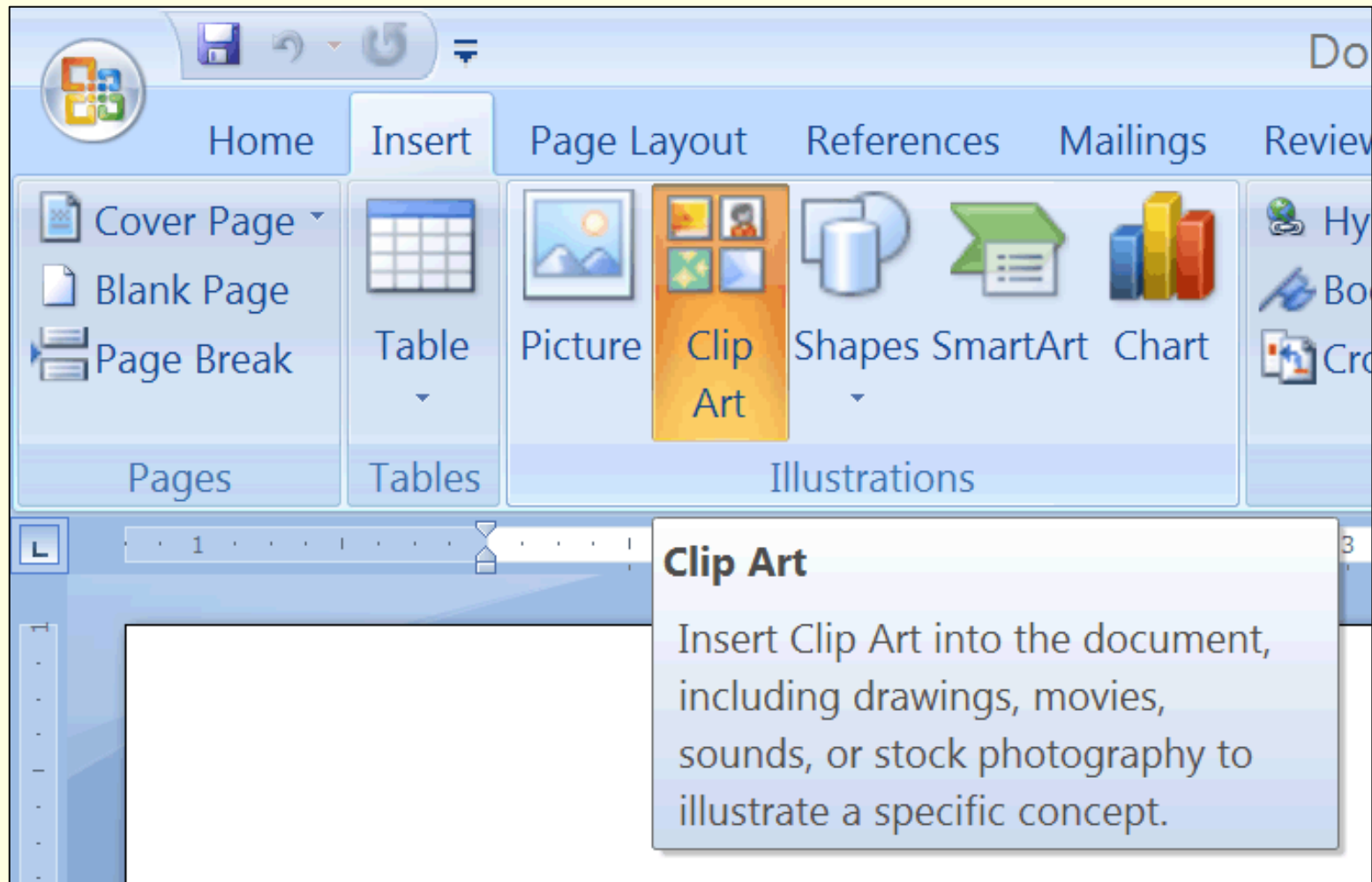


Clip Art

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

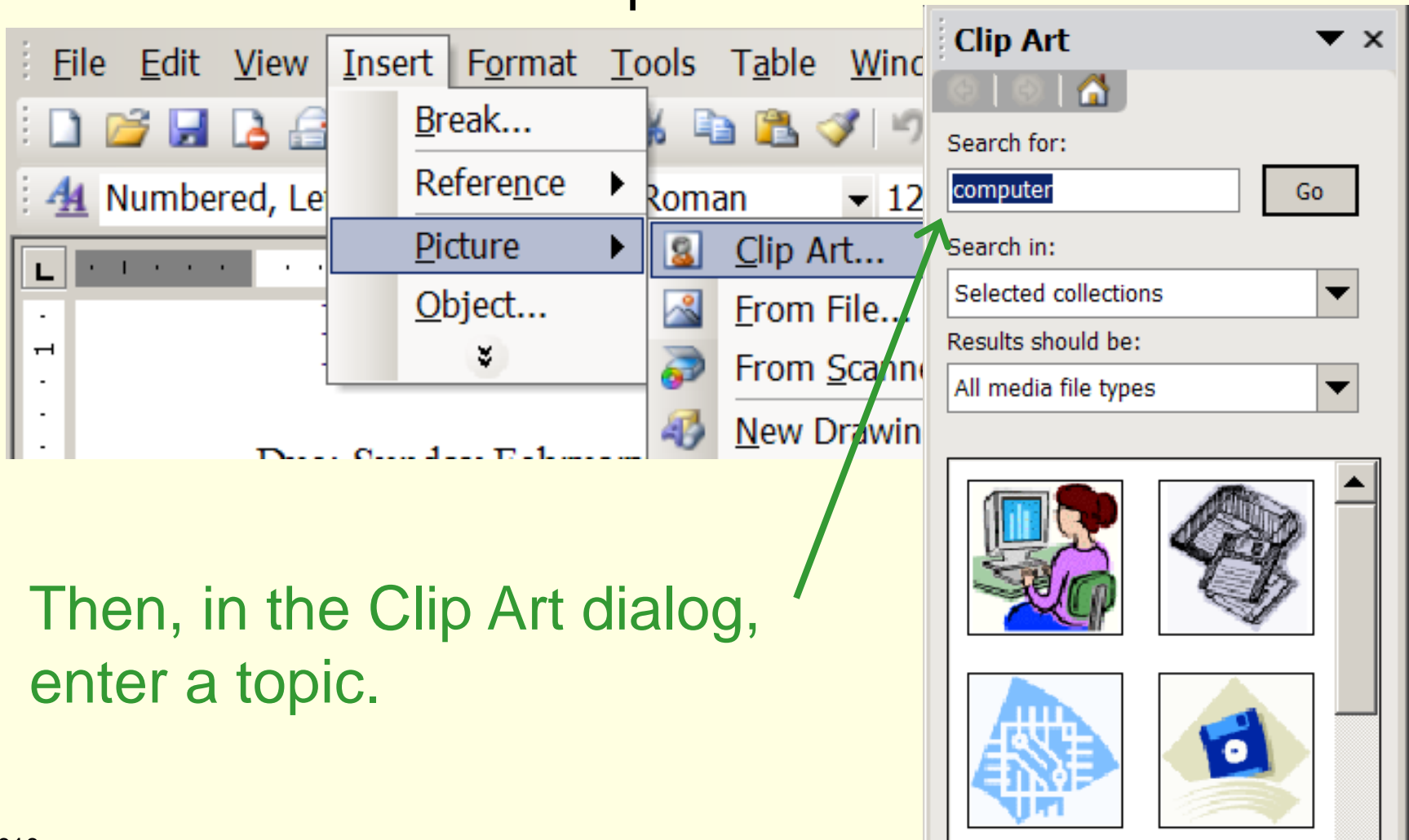


Clip Art: First Search Your Collection



Clip Art: Word 2003

Insert → Picture → Clip Art...



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

Clip Art: Search Microsoft Online

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

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7

Clip Art: Import into Clip Organizer

The screenshot shows the Microsoft Office Online interface for downloading clip art. The page is titled "Clip Art" and has a navigation menu with "Clip Art" selected. The main content area shows "Download" and "Options" links. Below this, there are sections for "Selection Basket Details" and "Media Application". The "Selection Basket Details" section shows "Selected items: 1" and "Download size: 95 KB (<1 min @ 56 Kbps)". The "Media Application" section asks the user to select an application, with two radio button options: "Import into Clip Organizer version 2002 or newer" (selected) and "Import into Clip Gallery version 5.0 or older". A "Download Now" button is at the bottom. Two green arrows with circled numbers point to the selected radio button (1) and the "Download Now" button (2).

Microsoft Office Online

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Clip Art

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Selection Basket

Selected items: **1**
Download size: **95 KB**
(<1 min @ 56 Kbps)

Other CAM Users

Clip Collections

Home > Clip Art

Download

[Options](#)

Selection Basket Details

Selected items: **1**
Download size: **95 KB (<1 min @ 56 Kbps)**
[Review basket](#)

Media Application

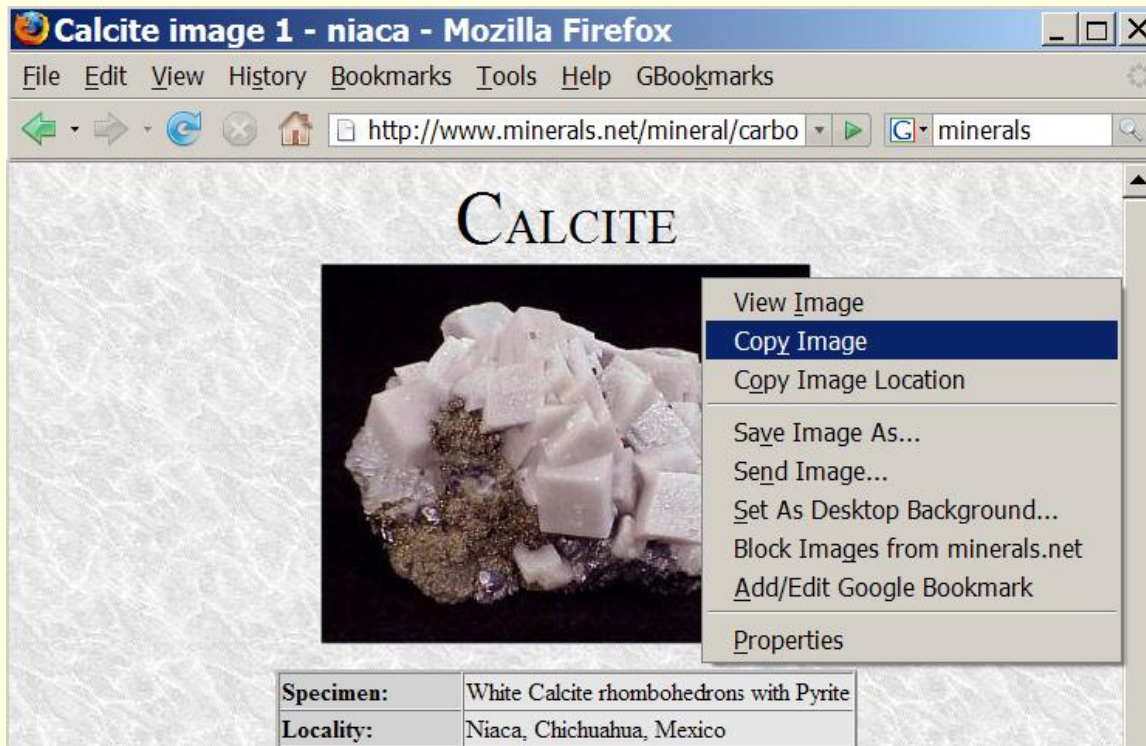
Please select the application you want to use.

- Import into Clip Organizer version 2002 or newer
Media files will be stored in your My Pictures\Microsoft Clip Organizer folder.
- Import into Clip Gallery version 5.0 or older
Media files will be stored in your Application Data\Microsoft\Media Catalog\Downloaded Clips folder.

[Download Now](#)

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/>

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.

