



Accelerate your development with ImageGear for .NET



ImageGear for .NET allows developers to easily add powerful imaging capabilities to applications. This ultimate imaging toolkit supports every aspect of the popularly used graphic file formats. Being 100% managed code, it also provides complete compatibility when developing any .NET solutions.

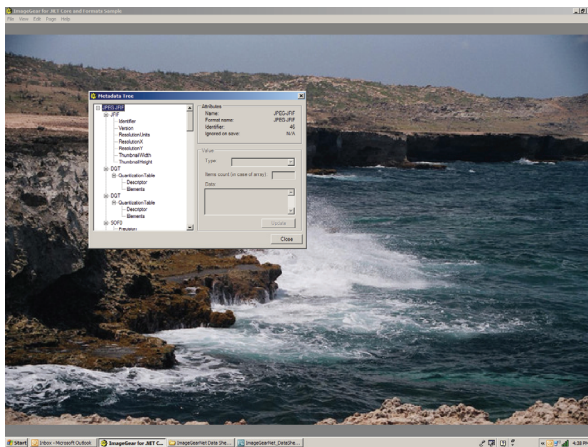
Written in C#, ImageGear for .NET provides an object oriented, intuitive and easy to use hierarchy of classes, structures, interfaces and enumerations.

ImageGear for .Net provides the following attributes:

- Quickly develop ASP.NET-based imaging applications
- Easily create applications on the .NET framework using 100 percent managed code
- Server side processing with client side control

ImageGear for .NET provides over 500 methods and properties focused on the imaging features developers need. Such features are described below.

Figure 1: Sample of core and formats



- **Support for reading, writing and conversion of images** in over 40 of the most popular formats with full access to the file format metadata (See Figure 1)
- **Enhanced PDF support** is available offering security measures, layered editing and editing of elements and annotations (text, image and metadata)
- **Support for Motion JPEG2000** file format (MJ2) designed to contain one or more motion sequences of JPEG2000 images
- **Recognition support** (OCR/ICR/OMR/Barcode)

- **Printing functions**—Includes auto sizing with auto page centering or specific placement (See Figure 2)
- **Pixel access functions**—Access to the image resolution, palette, and pixel data, so that it is possible to retrieve and update all image rasters, columns, lines, areas, and individual pixels
- **Native support for all color spaces and bit depths**
 - Go from 24-bit to 1, 4 or 8-bit images
 - Reduce the bit depth of an image using specified reduction methods (BAYER, BITONAL, DIFFUSE, HALFTONE, MEDIAN, OCTREE, POPULARITY, SCALE)

Figure 2: Display and printing sample



Figure 3: Color processing sample using the GrayScale and Smooth tools



- **Image processing and enhancement**
Rotate, Flip, Resize with interpolations, color space conversions, contrast adjustment, de-skew, merge, smooth, sharpen, un-sharp mask, thumbnail creation and more (See Figure 3)
- **New CAD/vector support**
 - Native support for vector formats (DXF, DWG, CGM, DGN, HPGL)
 - Load any of these vector formats
 - Rasterize a vector drawing
 - Display and manipulate vector data

- **Acquisition from TWAIN compatible devices.** ImageGear for .NET supports all TWAIN versions up to and including the latest, version 1.9 (See Figure 4)
- **Annotation support**
 - A set of enhanced, flexible annotation marks
 - Text, line, freehand polyline, rectangle, ellipse, polygon, polyline, audio, image, ruler, protractor, encryption, button, hot spot, rich text
 - Import/export annotation from/to XML file

Figure 4: TWAIN scanning sample

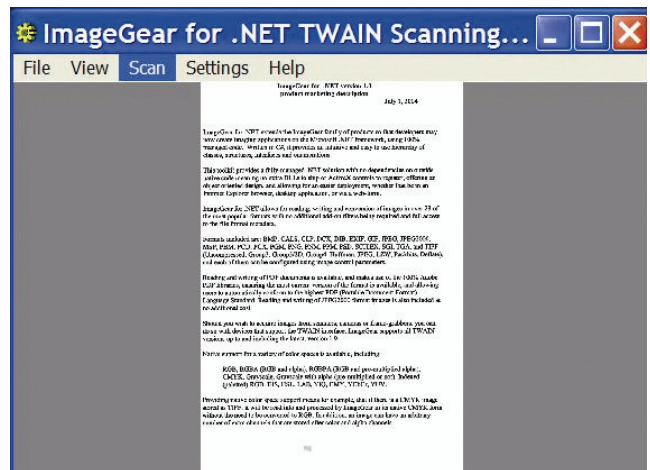
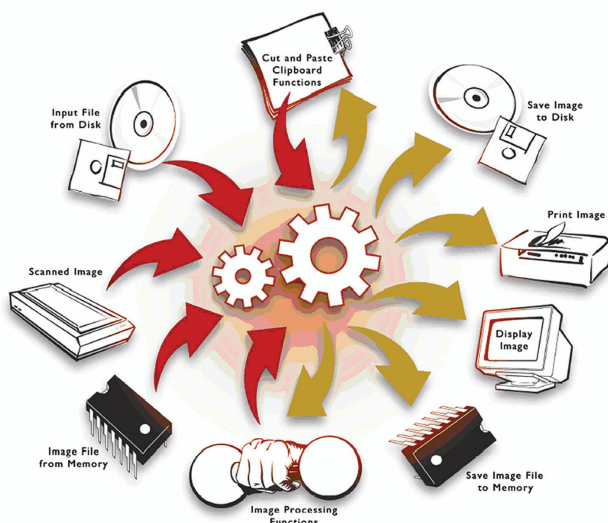


Figure 5: ImageGear Functions



- **High-speed display**
Complete control over how images are displayed with options for zoom, scroll, scale to gray, transparency (alpha), background, fit methods, orientation, alignment, aspect ratio as well as the ability to print an image with options
- **Native support for a variety of color spaces is available, including:** RGB, RGBA (RGB and alpha), RGBPA (RGB and pre-multiplied alpha), CMYK, Grayscale, Grayscale with alpha (pre-multiplied or not), Indexed (paletted) RGB, IHS, HSL, LAB, YIQ, CMY, YCbCr, YUV
- **Web Form support**
 - Fast streaming of HTML to client
 - Download only required data
 - Easily develop ASP.NET applications