



GrapeCity Documents for Imaging (GcImaging)

Imaging API for .NET Core

Apply advanced, multi-platform image processing in code, with no dependencies

With GcImaging, you can create, load, modify, and save images in .NET Core applications with **full support of all features (including text handling) on Windows, macOS, and Linux platforms**. Deploy as FaaS with AWS Lambda, Azure Functions, and more.

Download your free trial at
GrapeCity.com

With GrapeCity Documents for Imaging you can apply advanced image processing in code, with zero dependencies.

Create, modify, load and save images in all popular formats

GcImaging can load images from files, streams, or byte arrays and save images to files or streams.

GcImaging supports:

- BMP
- GIF (including multi-frame animated Gifs)
- JPEG
- PNG
- TIFF (including multi-page TIFFs)

Process images in code

GcImaging allows you to apply a variety of image processing techniques: modify images, apply effects, convert, and save images in original or other image formats.

- Load and save in popular image formats like BMP, JPEG, TIFF, GIF, and PNG
- Modify images by rotating, cropping, resizing, and converting
- Draw and fill graphics primitives and paths
- Draw advanced text with full font handling, text, and paragraph formatting on images
- Apply advanced TIFF features
- Deploy to Azure and AWS
- Support Exif (JPEG, PNG, TIFF) and ICC (JPEG, PNG, TIFF, GIFF) metadata
- Convert between different image formats, with full support for true color, indexed and grayscale images
- Apply auto levels or auto contrast to quickly enhance color and grayscale photos

- Extract or add frames in TIFF and GIF images
- Access and modify individual pixels

Handle images on any device or system

- Dither high-color depth images to view on low-color depth environments
- Select from various different dithering effects
- Apply to any image format

Caption images with graphics and text

- Draw a variety of shapes, including polygons, paths, and lines
- Create graphic paths like Bezier curves
- Draw OpenType, TrueType, and WOFF fonts
- Draw Japanese and Arabic text

Watermark your images

- Apply semi-transparent watermark text to any image
- Select from a variety of fonts
- Apply advanced text features that can render on any system

Create professional, vivid images from originals

- Apply hue rotation, sepia, saturation, and temperature effects
- Reverse the exposure of an image
- Edit the image's opacity
- Apply gamma corrections

Why You May Need an Imaging API:

- Load and save image files like BMP, JPEG, TIFF, GIF, and PNG to display, modify and save images in your .NET applications.
- Perform mass rotation, cropping, resizing, and converting images from one format to another in a batch image processing program, and align images as per your application needs in terms of space and size.
- Apply effects like dithering and thresholding on grayscale and RGB images to transform dull images into more meaningful images with details.
- Add frames and a company watermark in order to convert your image into a branding element or logo of a company.
- Draw advanced text with full font handling, text, and paragraph formatting images to create titles for the images and to enhance the pictorial information.
- Apply advanced TIFF features to keep working with high-quality images in your applications.
- Automatically manipulate or transform user-provided images (for example, make a round avatar from a photo, add borders, etc.) in a web application or similar platform.
- Find images based on Exif (e.g. find all photos made by a Nikon camera) in a search engine or program.
- Use a single imaging solution on different platforms, like Windows, Linux and macOS, to generate similar images without discrepancies.
- Deploy to Azure and AWS to create services that can convert images in the cloud for your application needs.

Deploying as FaaS on Azure and AWS

Rather than manage the infrastructure to deploy their apps locally, Azure and AWS offer solution services to manage servers, storage, databases, networking, and software in the cloud.

If applications use images, the imaging API supports work with your images in the cloud:

- You can create photo albums in the cloud and upload images.
- You can create a cloud service that uploads an image, resizes it, and gives back a rounded thumbnail.
- You can create a service in the cloud that uploads an image, adds a company watermark to it, and sends it back.