

Document Rendering and Viewing Solution

Flexible document viewing solution for programmers and professionals to render and display widely used file formats anywhere.



GroupDocs Viewer

Professional tools for professionals

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What Is GroupDocs.Viewer?

GroupDocs.Viewer is a powerful [file viewer](#) API that allows you to display over 140 document types in your applications. The main purpose of GroupDocs.Viewer product is an ability to render documents into HTML, Image or PDF representations fast and with high quality.

Why Use GroupDocs.Viewer as a Developer?

- No additional software is required to render documents into HTML5, Image or PDF;
- Great variety of rendering options provided to customize output;
- Easy way to apply document transformations - page rotation and reordering, textual watermarks;
- Document information extraction - file type, page count etc.;
- Increase rendering performance by caching rendering results. Render document once and display it fast and efficient;
- Customizable caching. Caching to local disk is implemented by default and any type of storage can be supported by implementing caching interfaces – Amazon S3, Dropbox, Google Drive, Windows Azure and others.

Features Overview

Document rendering

GroupDocs.Viewer's main feature is an ability to render any document from wide list of [supported formats](#) into HTML, Image or PDF. So that documents of different types can be easily displayed inside your application without any additional software installed (like MS Office, Apache Open Office, Adobe Acrobat Reader and others).

Choosing the most appropriate rendering mode depends on your application type and specifics. Let's review in details what are the differences between rendering modes and how to choose the most suitable for your case.

Render document as HTML

HTML rendering mode is the best option to choose if:

- you are writing a web-based application;
- document content should be displayed inside web-browser;
- you need an ability to interact with rendered document text - select, copy or search.
- you want to render document pages separately.

You may choose two different strategies to manage page resources (like css, fonts, images etc.) when rendering to HTML:

- Render to **HTML with external resources** - allows to reuse common resources across separate pages and dramatically reduce page size and loading speed.
- Render to **HTML with embedded resources** - “bakes” page resources into HTML markup and makes each document page self-sufficient. The drawback is that page size and loading speed may increase.

Render document as Image

You may want to choose Image rendering if:

- you are writing any type of application;
- you don't need to render textual content or want to restrict an interaction with rendered document text - for example prevent text copying. There is still an ability for you to extract document text if you want to add selectable text layer over the page image (described below).
- you want to render document pages separately.

GroupDocs.Viewer for .NET supports JPG and PNG formats when rendering Image. There is a brief description of both which may help you to choose the most suitable in your case.

PNG format is a lossless raster graphics file format that works with full-color images and supports transparency. There is no ability to adjust the quality of saved PNG image. PNG is a good choice for storing line drawings, text, and iconic graphics at a small file size.

JPG format is a lossy compressed file format which allows to adjust the quality of the saved image — when it is reduced, the details are removed and noise is added to the image, but the size becomes more compact. JPG is optimal for images with a large number of colors (for example, for photos). It's a common choice for use on the Web because it is compressed.

Render document as PDF

PDF rendering is the best mode to choose if:

- you are going to print rendered document
- send it via email for review.
- you don't want to render document pages separately. All pages of source document are rendered as a single PDF document.

Rendering options and output customizations

GroupDocs.Viewer for .NET/Java provides set of options to apply different document page transformations:

- Page Rotation - applies page rotation when rendering document to HTML or Image formats.
- Watermarking - applies specified text as a watermark to all document pages when rendering document to HTML or Image formats.
- Page Reorder - changes the page order when rendering document to HTML or Image formats.

Caching results

GroupDocs.Viewer for .NET/Java supports caching rendering result to local disk by default. However any type of cache storage can be supported by implementing

appropriate interfaces – Amazon S3, Dropbox, Google Drive, Windows Azure, Redis or any other.

Extract document text

When rendering to image document text can be extracted along with separate words coordinates. This may be helpful when you want to add selectable text layer over the page image.

Document information extraction

GroupDocs.Viewer for .NET/Java allows to obtain basic information about source document - file type, pages count, page text elements with coordinates etc. Dependent on source file type some format specific information can be extracted, for example:

- Archive – list of folders contained in archive;
- CAD - list of layers and layouts in a CAD document;
- Email – list of folders contained in an Outlook data file document;
- PDF – information about document printing restrictions;
- Project Management – project start and end dates.

System Requirements

Overview

GroupDocs.Viewer for .NET/Java does not require any external software or third party tools to be installed.

Supported Operating Systems

GroupDocs.Viewer supports any 32-bit or 64-bit operating system where .NET, Mono framework or Java is installed including, but not limited to:

Windows

- Microsoft Windows 2003 Server (x64, x86)
- Microsoft Windows 2008 Server (x64, x86)
- Microsoft Windows 2012 Server (x64, x86)
- Microsoft Windows 2012 R2 Server (x64, x86)
- Microsoft Windows 2016 Server (x64, x86)
- Microsoft Windows 2019 Server (x64, x86)
- Microsoft Windows Vista (x64, x86)
- Microsoft Windows XP (x64, x86)
- Microsoft Windows 7 (x64, x86)
- Microsoft Windows 8, 8.1 (x64, x86)
- Microsoft Windows 10 (x64, x86)
- Microsoft Azure

Linux

- Linux (Ubuntu, OpenSUSE, CentOS and others)

Mac

- Mac OS X

Supported Frameworks

GroupDocs.Viewer supports .NET, Mono frameworks and Java as follows:

.NET Frameworks

- .NET Framework 2.0
- .NET Framework 3.5
- .NET Framework 4.0
- .NET Framework 4.0_ClientProfile
- .NET Framework 4.5.0
- .NET Framework 4.5.1
- .NET Framework 4.5.2
- .NET Framework 4.6.0
- .NET Framework 4.6.2
- .NET Framework 4.5.0
- .NET Framework 4.5.1
- .NET Framework 4.6.0
- .NET Framework 4.6.2
- .NET Framework 4.7
- .NET Framework 4.7.2
- .NET Standard 2.0
- .NET Core 2.0
- .NET Core 2.1

Mono Framework

- Mono 2.6.7 or later

Java

- JDK 6
- JDK 7
- JDK 8
- JDK 9
- JDK 10

- JDK 11
- JDK 12
- JDK 13

Development Environments

GroupDocs.Viewer can be used to develop applications in any development environment that targets the .NET and Java platforms. Following environments are explicitly supported:

- Microsoft Visual Studio 2010
- Microsoft Visual Studio 2011
- Microsoft Visual Studio 2012
- Microsoft Visual Studio 2013
- Microsoft Visual Studio 2015
- Microsoft Visual Studio 2017
- Microsoft Visual Studio 2019
- Xamarin.Android
- Xamarin.IOS
- Xamarin.Mac
- MonoDevelop 2.4 and later
- NetBeans
- Eclipse
- IntelliJ IDEA

UI/UX Examples



It's FREE, it's open-source!

GroupDocs.Viewer for .NET and Java API allows you to view over 90 document formats including DOCX, PDF, PPT, XLS, among many others without any additional dependencies. Thanks to its flexible configuration it can be configured to view documents as images or as HTML5.

In order to demonstrate GroupDocs.Viewer reach and powerful features we prepared a modern document viewer front-end web UI examples. Which can be used as a standalone application or easily integrated into your project.

Features

- Clean, modern and intuitive design
- Easily switchable colour theme (create your own colour theme in 5 minutes)
- Responsive design
- Mobile support (open application on any mobile device)
- Support over 90 documents and image formats including popular MS Office (Word, Excel, PowerPoint)
- HTML and image document viewing modes
- Fully customizable navigation panel

- Open password protected documents
- Text searching & highlighting
- Download documents
- Upload documents
- Print document
- Rotate pages
- Zoom in/out documents without quality loss in HTML mode
- Thumbnails
- Smooth page navigation
- Smooth document scrolling
- Preload pages for faster document viewing
- Multi-language support for displaying errors
- Display two or more pages side by side (when zooming out)
- Cross-browser support (Safari, Chrome, Opera, Firefox)
- Cross-platform support (Windows, Linux, MacOS)

.NET Examples

MVC

[GroupDocs.Viewer for .NET MVC Example](#)

WebForms

[GroupDocs.Viewer for .NET WebForms Example](#)

Java Examples

Dropwizard

[GroupDocs.Viewer for Java Dropwizard Example](#)

Spring

[GroupDocs.Viewer for Java Spring Example](#)