

Image Graphic File Format

Comparison of graphics file formats This comparison primarily features file formats for 2D images. This comparison primarily features file formats for 2D images. Ownership of the format and related This is a comparison of image file formats (graphics file formats). comparison of image file formats (graphics file formats) 50068ef81f

== Rationale == 50068ef81f

File format particular types of data: PNG files, for example, store bitmapped images using lossless data compression. Other file formats, however, are designed for storage A file format is the way that information is encoded for storage in a computer file. A file format may be standardized (which can be proprietary or open) or it can be an ad hoc convention. It may describe the encoding at various levels of abstraction including low-level bit and byte layout as well high-level organization such as markup and tabular structure 50068ef81f

== Image file sizes == 50068ef81f Some file formats have a published specification describing the format and... 50068ef81f == Device-independent bitmaps and the BMP file format == 50068ef81f == History and development == 50068ef81f

High Efficiency Image File Format The standard covers multimedia High Efficiency Image File Format (HEIF) is a digital container format for storing individual digital images and image sequences. High Efficiency Image File Format (HEIF) is a digital container format for storing individual digital images and image sequences. The standard covers multimedia files that can also include other media streams, such as timed text, audio and video 50068ef81f

The size of raster image files is positively correlated with the number of pixels in the image and the color depth (bits per pixel). Images can be compressed in various ways, however. A compression algorithm stores... 50068ef81f Each format is identified by a phrase that is the format's full or abbreviated name. The typical file name extension used for a format is included in parentheses if it differs from the identifier, ignoring case. 50068ef81f The technical development of the specification took about one and a half years and was finalized in the middle of 2015....

50068ef81f The ANI file format is used for animated Windows cursors. ANI is a RIFF container; each frame within it is a complete CUR-format image and may itself contain images at multiple sizes. 50068ef81f

PNG raster-graphics file format that supports lossless data compression. PNG was developed as an improved, non-patented replacement for Graphics Interchange Format (GIF) Portable Network Graphics (PNG, officially pronounced PING, colloquially pronounced PEE-en-JEE) is a raster-graphics file format that supports lossless data compression. PNG was developed as an improved, non-patented replacement for Graphics Interchange Format (GIF) 50068ef81f

Image files are composed of digital data in one of these formats so that the data can be displayed on a digital (computer) display or printed out using a printer. A common method for displaying digital image information has historically been rasterization. 50068ef81f == General == 50068ef81f Raster formats are for 2D images. A 3D image can be represented within a 2D format, as in a stereogram or autostereogram, but this 3D image will not be a true light field, and thereby may cause the vergence-accommodation conflict. 50068ef81f

List of file formats Most of the file endings are traditionally written lower case (example:. png). Some formats are listed under multiple categories. 5 image file B6T - BlindWrite 6 image file BWT - BlindWrite 4 image file BIN - Raw binary format, often paired with CUE CDI - DiscJuggler image file CUE This is a list of computer file formats, categorized by domain 50068ef81f

PNG supports palette-based images (with palettes of 24-bit RGB or 32-bit RGBA colors), grayscale images (with or without an alpha channel for transparency), and full-color non-palette-based RGB or RGBA images. The PNG working group designed the format for transferring images on the Internet, not for professional-quality print graphics; therefore, non-RGB color spaces such as CMYK are not supported. A PNG file contains a single image in an extensible structure of chunks, encoding the basic pixels and other information such as textual comments and integrity checks documented in RFC 2083. 50068ef81f

ICO (file format) The ICO file format is an image file format for computer icons in Microsoft Windows. ICO files contain one or more images at multiple sizes and color The ICO file format is an image file format for computer icons in Microsoft Windows. In Windows, all executables that display an icon to the user, on the desktop, in the Start Menu, or in File Explorer, must carry the icon in ICO format. ICO files contain one or more images at multiple sizes and depths, such that they may be scaled appropriately 50068ef81f

The BMP file format is capable of storing two-dimensional digital images in various color depths, and optionally with data compression, alpha channels, and color profiles. The Windows Metafile (WMF) specification covers the BMP file format. 50068ef81f PNG was published as an informational RFC 2083 in March 1997 and as the standard ISO/IEC 15948:2004 in 2004. 50068ef81f

BMP file format The BMP file format, or bitmap, is a raster graphics image file format used to store bitmap digital images, independently of the display device (such as The BMP file format, or bitmap, is a raster graphics image file format used to store bitmap digital images, independently of the display device (such as a graphics adapter), especially on Microsoft Windows and OS/2 operating systems 50068ef81f

The requirements and main use cases of HEIF were defined in 2013. 50068ef81f HEIF can store images encoded with multiple coding formats, for example both SDR and HDR images. HEVC is an image and video encoding format and the default image codec used with HEIF. HEIF files containing HEVC-encoded images are also known as HEIC files and are mandated to use the .heic filename extension or .heics as stated in the standard. Such files require less storage space than the equivalent-quality JPEG files of the same images. 50068ef81f == Technical details == 50068ef81f

ART image file format art") holds ART is a proprietary image file format used mostly by the America Online (AOL) service and client software. ART is a proprietary image file format used mostly by the America Online (AOL) service and client software. The ART format (file extension " 50068ef81f

== Archive and compressed == 50068ef81f

Image file format An image file format is a file format for a digital image. Most formats up until 2022 were for storing 2D images, not 3D ones. There are many formats that can be used, such as JPEG, PNG, and GIF. Most formats up until An image file format is a file format for a digital image. Some image file formats support transparency. For graphic design applications, vector formats are often used. If the data is compressed, it may be done so using lossy compression or lossless compression. There are many formats that can be used, such as JPEG, PNG, and GIF. The data stored in an image file format may be compressed or uncompressed 50068ef81f

The use of file name extension varies by operating system and file system. Some older file systems, such as File Allocation Table (FAT), limited an extension to 3 characters, but modern systems do not. Microsoft operating systems

(i.e. MS-DOS and Windows) depend more on the extension to associate contextual and semantic meaning to a file than Unix-based systems. Icons introduced in Windows 1.0 were monochrome; in Windows 1.x and 2.x, ICO and CUR files were raw. Raw image files are sometimes described as "digital negatives". Like transparency film and unlike negative film, raw image pixels contain positive exposure measurements. The raw datasets are more like undeveloped film: a raw image can be developed by software in a non-reversible manner to reach a complete image that resolves every pixel in an RGB or other viewable color space. Raw development adjustments include color, contrast, brightness and details recovery. A given raw dataset can be developed many times with different adjustments. The CUR file format is an almost identical image file format for non-animated cursors in Microsoft Windows. The only differences between these two file formats are the bytes used to identify them and the addition of a hotspot in the CUR format header; the hotspot is defined as the pixel offset (in x,y coordinates) from the top-left corner of the cursor image to where the user is actually pointing the mouse. While still partially supported in current web browsers for legacy reasons, the screen pixel inversion feature was never implemented there. Some file formats are designed for very particular types of data: PNG files, for example, store bitmapped images using lossless data compression. Other file formats, however, are designed for storage of several different types of data: the Ogg format can act as a container for different types of multimedia including any combination of audio and video, with or without text (such as subtitles), and metadata. A text file can contain any stream of characters, including possible control characters, and is encoded in one of various character encoding schemes. Some file formats, such as HTML, scalable vector graphics, and the source code of computer software are text files with defined syntaxes that allow them to be used for specific purposes. Ownership of the format and related information.

Raw image format Raw image files are sometimes described as "digital A camera raw image file is a file that contains unprocessed data straight from a digital camera. Such data can later be changed into a photo, either within a digital camera itself or by usage of external tools. Raw files are so named because they are not yet processed, and contain large amounts of potentially redundant data. There are dozens of raw formats in use by different manufacturers of digital image capture equipment. Normally, the image is processed by a raw converter, in a wide-gamut internal color space where precise adjustments can be made before conversion to a viewable photos for storage, printing, or further manipulation. There are dozens of raw formats in use by different manufacturers of digital image capture equipment

The ART format (file extension ".art") holds a single still image that has been highly compressed. The format was designed to facilitate the quick downloading of images, among other things. Originally, the compression was developed by the Johnson-Grace Company, which was then acquired by AOL. When an image is converted to the ART format, the image is analyzed and the software decides what compression technique would be best. The ART format has similarities to the progressive JPEG format, and certain attributes of the ART format can lead to image quality being sacrificed for the sake of image compression (for instance, the image's color palette can be limited). 50068ef81f PNG files have the ".png" file extension and the "image/png" MIME media type. 50068ef81f == Specification == 50068ef81f HEIF files are a special case of the ISO base media file format (ISO/BMFF, ISO/IEC 14496-12), first defined in 2001 as a shared part of MP4 and JPEG 2000. Introduced in 2015, it was developed by the Moving Picture Experts Group (MPEG) and is defined as Part 12 within the MPEG-H media suite (ISO/IEC 23008-12). 50068ef81f == History == 50068ef81f

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