Portable Network Graphics

File format

Portable Network Graphics is a raster-graphics file-format that supports lossless data compression. PNG was developed as an improved, non-patented replacement for Graphics Interchange Format. PNG supports palette-based images, grayscale images, and full-color non-palette-based RGB or RGBA images.

**JPEG**

Camera compressed format

JPEG is a commonly used method of lossy compression for digital images, particularly for those images produced by digital photography. The degree of compression can be adjusted, allowing a selectable tradeoff between storage size and image quality.

# GIF

The **Graphics Interchange Format** (**GIF** [/dʒɪf/](https://en.wikipedia.org/wiki/Help:IPA/English) [*JIF*](https://en.wikipedia.org/wiki/Help:Pronunciation_respelling_key) or [/ɡɪf/](https://en.wikipedia.org/wiki/Help:IPA/English) [*GHIF*](https://en.wikipedia.org/wiki/Help:Pronunciation_respelling_key)) is a [bitmap](https://en.wikipedia.org/wiki/Raster_graphics) [image format](https://en.wikipedia.org/wiki/Image_file_formats) that was developed by a team at the online services provider [CompuServe](https://en.wikipedia.org/wiki/CompuServe) led by American computer scientist [Steve Wilhite](https://en.wikipedia.org/wiki/Steve_Wilhite) on June 15, 1987.[[1]](https://en.wikipedia.org/wiki/GIF#cite_note-87aSpec-1) It has since come into widespread usage on the [World Wide Web](https://en.wikipedia.org/wiki/World_Wide_Web) due to its wide support and portability between many applications and operating systems.

The format supports up to [8 bits per pixel](https://en.wikipedia.org/wiki/8-bit_color) for each image, allowing a single image to reference its own palette of up to 256 different colors chosen from the [24-bit](https://en.wikipedia.org/wiki/24-bit_color) RGB color space. It also supports [animations](https://en.wikipedia.org/wiki/Animation) and allows a separate [palette](https://en.wikipedia.org/wiki/Palette_(computing)) of up to 256 colors for each frame. These palette limitations make GIF less suitable for reproducing color photographs and other images with color gradients, but it is well-suited for simpler images such as graphics or logos with solid areas of color. Unlike video, the GIF file format does not support audio.

GIF images are compressed using the [Lempel–Ziv–Welch](https://en.wikipedia.org/wiki/Lempel%E2%80%93Ziv%E2%80%93Welch) (LZW) [lossless data compression](https://en.wikipedia.org/wiki/Lossless_data_compression) technique to reduce the file size without degrading the visual quality. This compression technique was patented in 1985. Controversy over the licensing agreement between the [software patent](https://en.wikipedia.org/wiki/Software_patent) holder, [Unisys](https://en.wikipedia.org/wiki/Unisys), and CompuServe in 1994 spurred the development of the [Portable Network Graphics](https://en.wikipedia.org/wiki/Portable_Network_Graphics) (PNG) standard. By 2004 all the relevant patents had expired.

# *UAX*

# *A Unicode Standard Annex (UAX) forms an integral part of the Unicode Standard, but is published online as a separate document. The Unicode Standard may require conformance to normative content in a Unicode Standard Annex, if so specified in the Conformance chapter of that version of the Unicode Standard. The version number of a UAX document corresponds to the version of the Unicode Standard of which it forms a part.*

**UAI**

Virginia Uniform Assessment Instrument (**UAI**) or "**UAI**" means the standardized, multidimensional questionnaire used to assess that assesses an individual's social, physical and mental health, and social and functional abilities