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Prevailing file format standards and other compatibility issues

Prevailing file format standards

Abbreviation	File format	MIME type	File extension	Summary
APNG	Animated Portable Network Graphics	image/apng	.apng	Good choice for lossless animation sequences (GIF is less performant). AVIF and WebP have better performance but less broad browser support. Supported: Chrome, Edge, Firefox, Opera, Safari.
AVIF	AV1 Image File Format	image/avif	.avif	Good choice for both images and animated images due to high performance and royalty free image format. It offers much better compression than PNG or JPEG with support for higher color depths, animated frames, transparency, etc. Note that when using AVIF, you should include fallbacks to formats with better browser support (i.e. using the <picture> element). Supported: Chrome, Firefox (still images only: animated images not implemented), Opera, Safari.
APNG	Animated Portable Network Graphics	image/apng	.apng	Good choice for lossless animation sequences (GIF is less performant). AVIF and WebP have better performance but less broad browser support. Supported: Chrome, Edge, Firefox, Opera, Safari.
JPEG	Joint Photographic Expert Group image	image/jpeg	.jpg, .jpeg, .jfif, .pjpeg, .pjp	Good choice for lossy compression of still images (currently the most popular). Prefer PNG when more precise reproduction of the image is required, or WebP/AVIF if both better reproduction and higher compression are required. Support: Chrome, Edge, Firefox, IE, Opera, Safari.

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Abbreviation	File format	MIME type	File extension	Summary
<u>PNG</u>	Portable Network Graphics	image/png	.png	<p>PNG is preferred over JPEG for more precise reproduction of source images, or when transparency is needed. WebP/AVIF provide even better compression and reproduction, but browser support is more limited.</p> <p>Support: Chrome, Edge, Firefox, IE, Opera, Safari.</p>
<u>SVG</u>	Scalable Vector Graphics	image/svg+xml	.svg	<p>Vector image format; ideal for user interface elements, icons, diagrams, etc., that must be drawn accurately at different sizes.</p> <p>Support: Chrome, Edge, Firefox, IE, Opera, Safari.</p>
<u>WebP</u>	Web Picture format	image/webp	.webp	<p>Excellent choice for both images and animated images. WebP offers much better compression than PNG or JPEG with support for higher color depths, animated frames, transparency etc. AVIF offers slightly better compression, but is not quite as well-supported in browsers and does not support progressive rendering.</p> <p>Support: Chrome, Edge, Firefox, Opera, Safari</p>
<u>BMP</u>	Bitmap file	image/bmp	.bmp	Chrome, Edge, Firefox, IE, Opera, Safari
<u>ICO</u>	Microsoft Icon	image/x-icon	.ico, .cur	Chrome, Edge, Firefox, IE, Opera, Safari
<u>TIFF</u>	Tagged Image File Format	image/tiff	.tif, .tiff	Safari