Nathan Hallam

Simons

GRA 310

19th May, 2024

Module Two - Attributions and the difference between image file types

Each file format is designed for a specific use case, coming with a variety of pros and cons when used. Determining what file format to use, JPEG, PNG, SVG, and GIF, is based on what the image is being used for, where it is being used, and how.

JPEG or Joint Photographic Experts Group, also known as JPG, is best used for photographs as it is able to compress an image from a RAW state removing bloat information that is not necessary for the overall image. The compression of JPEG can be lossy or lossless as determined by the person compressing the file, allowing the file size to vary from one file to another despite showing the same image. JPEG’s should not be saved and resaved as each time the file is saved it is compressed over a previous compression, causing the image quality to degrade with each iteration.

PNG or Portable Network Graphic, an inherently lossless file format, is best used for graphics and icons - small images that will not bog down the website. PNG’s are larger than JPEG’s because they are inherently lossless, meaning if two images, one PNG and one JPEG are placed on a website the JPEG will more often than not load faster than the PNG due to the file size difference. Unlike JPEGs through the PNG can be saved and resaved as necessary because it is not compressed.

GIF or Graphics Interchange Format is most commonly known for supporting short animations. Similar to PNGs a GIF is inherently lossless but takes up a larger portion of storage space due to a GIF being a collection of PNG’s that are changed out to make an animation. GIFs are not recommended for anything other than animations due to their weak support for transparency, only supporting 256 colors, and of course their large file size.

SVG or Scalable Vector Graphic are vector based graphics that can be scaled to any size without losing their quality, unlike the raster based file formats of JPEG, PNG, and GIF. Despite the clear benefit that SVG provides it comes with its caveats. SVG’s need a special program to be made because they are based on vector graphics and not raster graphics. Meaning a program such as Adobe Photoshop will not be able to create and handle a SVG like Adobe Illustrator, a vector based program, can. Additionally, SVG’s can not be uploaded to a website outright like a JPEG, PNG, or GIF but instead must be inserted into a code block to be visible. Since SVG is based on vector graphics they are best used for simple icons and logos as they will look sharper than PNG and JPEG.

Works Cited

Scott, Kate. “JPG vs. PNG vs. GIF vs. SVG: The Ultimate Guide to Image File Formats - Kate Scott: Squarespace Templates.” *Kate Scott | Squarespace Templates*, Kate Scott | Squarespace Templates, 16 June 2021, www.katescott.co/blog/jpg-vs-png-vs-gif-vs-svg-image-file-formats.

Attributions

Interior space decorade in boho style - freepik - Free License - <https://www.freepik.com/free-ai-image/interior-space-decorated-boho-style_65558284.htm#fromView=search&page=1&position=4&uuid=8012b5f5-f01f-4bc4-8abd-cdd91c19026a>

Nature Themed Backdrop Wooden Background Wicker Chair Potted Creative Design Live Stream Background - thuyhungle99 - Free License - <https://www.freepik.com/premium-ai-image/nature-themed-backdrop-wooden-background-wicker-chair-potted-creative-design-live-stream-background_135178768.htm#fromView=search&page=1&position=11&uuid=8012b5f5-f01f-4bc4-8abd-cdd91c19026a>

Interior space decorated in boho style - freepik - Free License - <https://www.freepik.com/free-ai-image/interior-space-decorated-boho-style_65558286.htm#fromView=search&page=1&position=41&uuid=8012b5f5-f01f-4bc4-8abd-cdd91c19026a>

Interior space decorated in boho style - freepik - Free License - <https://www.freepik.com/free-ai-image/interior-space-decorated-boho-style_65568087.htm#fromView=search&page=1&position=15&uuid=3641a92c-fee7-4187-a046-6c9cefa9979a>

Cozy and lively home interior design - freepik - Free License - <https://www.freepik.com/free-ai-image/cozy-lively-home-interior-design_114489714.htm#fromView=search&page=3&position=10&uuid=3641a92c-fee7-4187-a046-6c9cefa9979a>

Relax area in hotel - jcomp - Free License - <https://www.freepik.com/free-photo/relax-area-hotel_4690265.htm#fromView=search&page=1&position=9&uuid=d59ec5c5-90af-4087-8e77-a036223d73cd>

Indoor plants in studio - freepik - Free License - <https://www.freepik.com/free-photo/indoor-plants-studio_94548572.htm#fromView=search&page=3&position=3&uuid=d59ec5c5-90af-4087-8e77-a036223d73cd>

Room interior design - freepik - Free License - <https://www.freepik.com/free-photo/room-interior-design_13195286.htm#fromView=search&page=3&position=22&uuid=d59ec5c5-90af-4087-8e77-a036223d73cd>

Woman using smartphone as a habit - freepik - Free License - <https://www.freepik.com/free-photo/woman-using-smartphone-as-habit_21800826.htm#fromView=search&page=1&position=3&uuid=e503b303-26a8-4285-90d0-88133276243a>

Beautiful and modern plant deco - freepik - Free License - <https://www.freepik.com/free-photo/beautiful-modern-plants-deco_20823832.htm#fromView=search&page=1&position=26&uuid=c90f389e-9c77-4528-8297-59e8824f5904>