

Conversion & Migration Guide

SVG vs PNG vs WebP: The Definitive Comparison

About This Document

This reference accompanies the article: SVG vs PNG vs WebP: The Definitive Comparison

Read the full article at: <https://svgeneration.com/docs/svg-vs-raster-comparison>

Article Summary

A data-driven comparison of SVG, PNG, WebP, and AVIF for background patterns with real file size benchmarks.

The Hybrid Approach

For maximum compatibility and quality: use SVG for all geometric patterns (the vast majority of background patterns), use AVIF/WebP for photographic textures with PNG fallback, and use a build-time pipeline (Vite, webpack) to automatically convert raster assets to modern formats. Never use GIF for patterns. WebP with animation or CSS animation is always superior.

Free Resources

Visit [SVGeneration.com](https://svgeneration.com) for 600 free SVG background patterns. No attribution required.

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