Serve Images in Next-Gen Formats

Overview

JPEG 2000, JPEG XR, and WebP are image formats that have superior compression and quality characteristics compared to their older JPEG and PNG counterparts. Encoding your images in these formats rather than JPEG or PNG means that they will load faster and consume less cellular data.

WebP is supported in Chrome and Opera and provides better lossy and lossless compression for images on the web. See A New Image Format For The Web for more on WebP.

Recommendations

Click **View Details** to see the potential savings of encoding your page's images with WebP rather than JPEG or PNG. To pass this audit, encode all of these images in WebP.

Browser support is not universal for WebP, but similar savings should be available in most major browsers in an alternative next-gen format. You'll need to serve a fallback PNG or JPEG image for other browser support. See How can I detect browser support for WebP? for an overview of fallback techniques and the list below for browser support of image formats.

To see the current browser support for each next-gen format, check out the entries below:
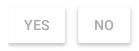
- WebP
- JPEG 2000
- JPEG XR

More information

Lighthouse collects each BMP, JPEG, and PNG image on the page, and then converts each to WebP. Lighthouse omits the image from its report if the potential savings are less than 8KB.

Audit source ⧉

Feedback

Was this page helpful?

YES NO

Great! Thank you for the feedback.

Sorry to hear that. Please open an issue and tell us how we can improve.