

Responsive Images & Srcset: A Practical Checklist

Use this checklist to audit existing projects and as a guide for new ones to ensure you are following the best practices for responsive images.

Phase 1: Strategy & Preparation
Before you write any code, make sure you have a clear plan.
 Audit Images: Identify the heaviest and most important images on the page (e.g., the Largest Contentful Paint element). Identify Layout Breakpoints: Determine at what viewport widths your design changes and how the image container's size is affected. Create a Set of Image Sizes: Generate several versions of each image (e.g., 400w, 800w, 1200w, 1600w, 2000w) from a high-resolution source. Choose the Right Format: JPEG/WebP: For photographs. PNG/WebP: For graphics with transparency. SVG: For logos and icons. Determine the Need for Art Direction: Decide if you need to show different crops of an image on different screens. If yes, plan to use the <picture> element.</picture>
Phase 2: HTML Implementation
Write your code correctly for maximum efficiency and compatibility.
 Use with srcset and sizes for Resolution Switching: This is the primary method for displaying the same image at different sizes. Specify the w Descriptor: Ensure each source in srcset has its actual width specified (e.g., image-800w.jpg 800w). Write an Accurate sizes Attribute: This attribute is MANDATORY when using the w descriptor. It must accurately describe how wide the image will be under
 different viewport conditions. ■ Use <picture> for Art Direction: For showing different cropped versions of an image.</picture>
 Use <picture> for WebP Support: Provide the WebP format with a JPEG/PNG fallback for older browsers.</picture> Include a Standard crost Always include a crost attribute as a fallback for the
 Include a Standard src: Always include a src attribute as a fallback for the oldest browsers that don't support srcset.
 Write a Descriptive alt Attribute: Always fill in the alt attribute for accessibility.



Phase 3: Optimization & Automation

Streamline your workflow and achieve maximum performance.

- Compress All Images: Use tools to compress images without a visible loss in quality.
- Consider Using an Image CDN: Services like Cloudinary or Imgix can automate size creation, WebP conversion, and image delivery.
- Use CMS Plugins: If you're on WordPress, use plugins (like Smush, ShortPixel) to automatically generate srcset.
- Implement Lazy Loading: For images below the fold, use loading="lazy" to speed up the initial page load.

Phase 4: Testing & Verification

Make sure everything works as intended.

- Use Browser Developer Tools: Open the "Network" tab and, while resizing the window, confirm that the correct (smaller) image versions are being loaded for smaller screens.
- Test on Real Devices: Test on actual smartphones and tablets, not just in an
- Check Load Speed: Use PageSpeed Insights or WebPageTest to assess the impact of your images on overall performance.
- **Validate Your HTML:** Ensure there are no syntax errors in your markup.