Related Roadmaps

- Frontend Roadmap
- JavaScript Roadmap

Frontend Performance

Find the detailed version of this checklist With details on how to implement these

https://roadmap.sh

High Priority	Medium Priority
Minimize number of iframes	Minified HTML - Remove comments and whitespaces
Minified CSS - Remove comments, whitespaces etc	Use Content Delivery Network
CSS files are non-blocking	Prefer using vector image rather than bitmap images
Inline the Critical CSS (above the fold CSS)	Set width and height attributes on images (aspect ratio)
Avoid the embedded / inline CSS	Avoid using Base64 images
Analyse stylesheets complexity	Offscreen images are loaded lazily
Compress your images / keep the image count low	Ensure to serve images that are close to your display size
Choose your image format appropriately	Avoid multiple inline JavaScript snippets <script></td></tr><tr><td>Minify your JavaScript</td><td>Keep your dependencies up to date</td></tr><tr><td>Non Blocking JavaScript: Use async / defer</td><td>Check for performance problems in your JavaScript files</td></tr><tr><td>Use HTTPs on your website</td><td>Service Workers for caching / performing heavy tasks</td></tr><tr><td>Keep your page weight < 1500 KB (ideally < 500 kb)</td><td>Cookie size should be less than 4096 bytes</td></tr><tr><td>Keep your page load time < 3 seconds</td><td>Keep the cookie count less than 20</td></tr><tr><td>Keep the Time To First Byte < 1.3 seconds</td><td></td></tr><tr><td>Minimize HTTP Requests</td><td>Low Priority</td></tr><tr><td>Serve files from the same protocol</td><td></td></tr><tr><td>Avoid requesting unreachable files (404)</td><td>Pre-load URLs where possible</td></tr><tr><td>Set HTTP cache headers properly</td><td>Concatenate CSS into a single file</td></tr><tr><th>GZIP / Brotli compression is enabled</th><th>Remove unused CSS</th></tr><tr><td></td><td>Use WOFF2 font format</td></tr><tr><td>Performance Tools</td><td>Use preconnect to load your fonts faster</td></tr><tr><td></td><td>Keep the web font size under 300kb</td></tr><tr><td>PageSpeed Insights</td><td>Prevent Flash or Invisible Text</td></tr><tr><td></td><td>Keep an eye on the size of dependencies</td></tr><tr><td>Lighthouse</td><td></td></tr><tr><td>WebPageTest</td><td>More Resources</td></tr><tr><td>Chrome DevTools</td><td></td></tr><tr><td>Bundlephobia</td><td></td></tr><tr><td>Squoosh.app</td><td>Framework Specific Guides</td></tr><tr><td></td><td>Recommended Talks / Guides</td></tr><tr><td></td><td></td></tr></tbody></table></script>

Continue Learning with following relevant tracks

Backend Roadmap

Frontend Roadmap