

Web Performance Optimization

Performance Metrics

1. Load time
2. Time to interactive
3. First contentful paint
4. Largest contentful paint
5. Cumulative layout shift

Optimization Techniques

1. Minimize HTTP requests
2. Optimize images
3. Use CDN
4. Enable compression
5. Browser caching

Tools and Testing

1. Lighthouse
2. WebPageTest
3. Chrome DevTools
4. GTmetrix
5. PageSpeed Insights