PageSpeed Insights Analysis Summary

This analysis was conducted in **incognito mode** to avoid browser caching effects that could skew results.

Note: **Server-level improvements** apply globally and will benefit all pages. These changes are not repeated on every page report.

Front Page

1. Time to First Byte (TTFB) – 600 ms

- **Impact**: Slight but noticeable performance lag. Ideal TTFB is **< 200 ms**.
- **Cause**: Server response delay.
- **Recommendations**:
  - Enable **page-level caching** (e.g., static HTML cache).
  - Use **object/database caching** like Redis or Memcached.
  - Implement a **Content Delivery Network (CDN)** to serve cached responses closer to users.
  - Consider upgrading to a faster hosting provider or optimizing backend logic.

2. Image Optimization

- **Issue**: Images are not served in next-gen formats or appropriately sized.
- **Example**:
  - https://cdn11.bigcommerce.com/s-fu16hs0usz/products/1743/images/2666/2383-2__35194.1601912676.386.513.jpg
- **Recommendations**:
  - Convert images to **WebP** formats.
  - Resize images to match their display size using responsive HTML or CSS.

3. Third-Party Script Latency

- **Issue**: Third-party script load time is high.
- **Script**:
  https://searchserverapi1.com/widgets/bigcommerce/init.js?api_key=7y1U6k6d7r – **520 ms**
- **Note**: This script is likely required by BigCommerce and may not be fully avoidable.
- **Recommendation**:
  - Defer or lazy-load if it's not critical for initial rendering.
  - Contact the vendor to see if a lighter or async version is available.
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4. Render-Blocking JavaScript

- **Issue**: The script below is blocking page rendering and takes 770 ms to load.
  - `https://microapps.bigcommerce.com/bodl-events/1.9.4/index.js`
- **Recommendation**:
  - Use `defer` to allow HTML parsing to continue:
    - \<script src="https://microapps.bigcommerce.com/bodl-events/1.9.4/index.js" defer\>\</script\>

5. Static Asset Caching

- **Observation**: Some static files lack sufficient cache lifetimes.
  - Example: `https://kdzhf.webeyecare.com/providers/atLabel/load` – **25 ms**
- **Recommendation**:
  - Configure cache headers (`Cache-Control`, `Expires`) to allow long-term caching for static assets (e.g., fonts, images, CSS, JS).

6. Excessive DOM Size

- **Issue**: The page contains over **13,000 elements**, which is significantly above the recommended threshold of 1,500.
- **Impact**: Increases style recalculation time and memory usage, and hurts interactivity (TBT).
- **Recommendations**:
  - Remove unnecessary or hidden elements (e.g., inactive modals, unused sliders).
  - Avoid deep nesting (`<div><div><div>...</div></div></div>`).
  - Limit the number of list items, images, and product cards rendered on initial load.
  - Consider paginating or lazy-loading content.

Shop Contacts Page

1. Image Optimization

- **Issue**: 8 images are using the JPEG format.
- **Recommendation**:
  - Convert to **WebP** for faster loading and better compression.
  - Ensure images are appropriately sized for their containers.

GAP-VGP035 Product Page

1. Cumulative Layout Shift (CLS)

- **Issue**: High CLS negatively impacts user experience.
- **Affected Elements**:
  - `<section class="product-right">`
  - "You Save" label

- **Recommendations**:
  - **Always define height and width** on image and content containers to prevent layout jumps.
  - Use **CSS aspect-ratio** or reserve space using min-height if content loads dynamically.

2. Image Optimization

- Example image:
  - `https://cdn11.bigcommerce.com/s-fu16hs0usz/images/stencil/960w/attribute_rule_images/361314_source_1703775757.png`
- **Recommendation**:

  - Save in **WebP** format.
  - Define dimensions to avoid layout shift.

Biofinity Toric XR 6-Pack Page

1. Missing Viewport Meta Tag

- **Issue**: No viewport tag found in the page's `<head>`.
- **Impact**: Prevents mobile responsiveness and hurts mobile performance scores.
- **Recommendation**:
  Add the following in the `<head>` of the HTML: