

**CSE211: Web Programming** 

ASSIGNMENT: #2 Performance Comparison

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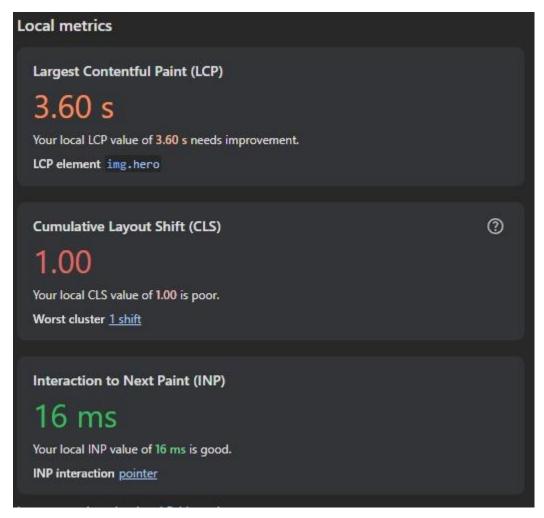
Supervised By: Dr. Samy Ghoniemy

Metrics	Youm7	Amazon	ASU
LCP	0.51s	1.59s	3.60s (bad)
CLS	0.08	0.0.22 (bad)	1.00 (bad)
INP	0ms	24ms	16ms
Performance	Excellent	Good	Poor

# **Best Performance:**

Youm7 has the best performance with excellent scores across all metrics, while Arizona State University has the worst performance with critical issues in both loading speed and layout stability. Amazon sits in the middle with good loading times but some layout shift problems.

# Arizona State University - Worst Performance





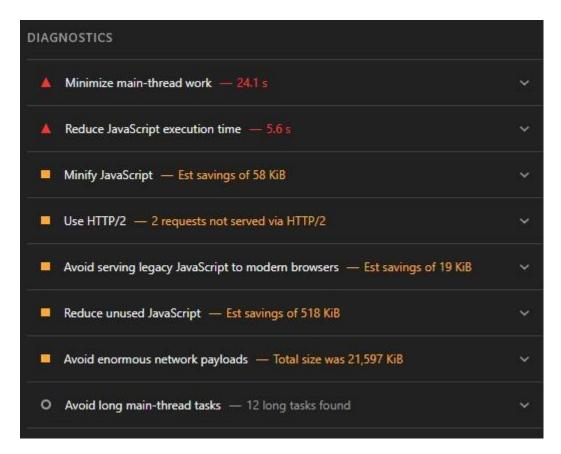
Main Issues: Extremely slow main image (3.60s) and severe layout jumps (CLS 1.00)

#### Fixes:

- · Add width/height to hero image to stop layout jumps
- · Compress and optimize the large hero image
- · Use WebP format for faster loading
- · Implement lazy loading for other images

# Amazon - Middle Performance



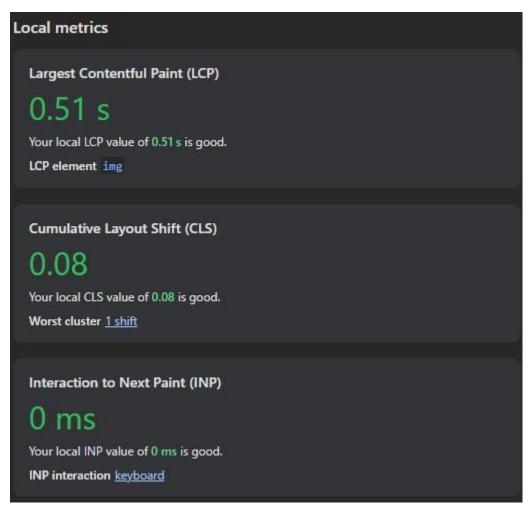


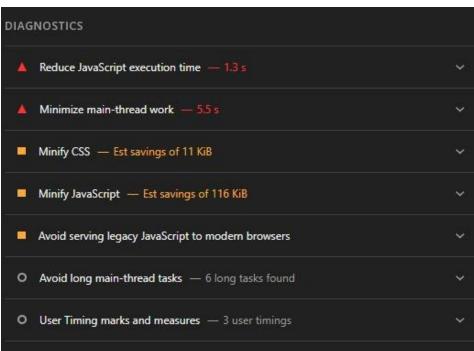
Main Issues: Layout instability (CLS 0.22) causing content to shift

#### Fixes:

- · Reserve space for all product images
- · Add explicit dimensions to image containers
- · Preload critical product images
- · Avoid dynamic content insertion above existing content

### Youm7 - Best Performance





Main Issues: None significant - all metrics are excellent

#### Fixes:

- · Continue current optimization practices
- $\cdot$  Monitor for any new third-party scripts
- $\cdot \, \text{Maintain image compression standards} \\$
- $\cdot$  Regular performance checks

# **THANK YOU**